

**OFFICE OF PROCUREMENT SERVICES****DATE:** April 10, 2023**FILE: PR-23-130**

*Assigned by procurement

TO: George Keller, Jr. CPPT
City Manager**VIA:** Adam Reichbach ^{DS} AR
Assistant City Manager for Finance and Administration**THRU:** ^{DS} SS
Steve Stewart ^{DS} SS
Director, Procurement and Contract Compliance**FROM:** Fire Rescue/Dan Booker
Fire Chief **SUBJECT:** Recommendation to Approve Change Order #1 to Municipal Equipment Company, LLC for Blanket Purchase Agreement PA600560 for Bunker Gear and Related Accessories. The Change Order Amount is an increase of \$14,000.00 and the Total Amount to include the Change Order is \$154,000.00.**ISSUE:**

Fire Rescue is requesting a change order increase in an amount of \$14,000.00 for Bunker Gear and Related Accessories. The reason for the change order is to purchase additional Bunker Gear and Related Accessories until Blanket Purchase Agreement PA600560 is renewed on August 1, 2023.

AUTHORITY:**§ 38.48 CHANGE ORDERS.
(A) CHANGE ORDER**

Changes, due to unanticipated conditions or developments, made to any contract, which are reasonably and conscientiously viewed as being in fulfillment of the original scope of the contract and/or matters directly related thereto.

(B) City Manager's authority.

(1) Subject to the restrictions contained in (B)(2) below, the City Manager is authorized to approve and initiate work on the following types of change orders determined in his or her judgment to be in the public interest, as follows:

(a) All change orders decreasing the cost of the contract to the City that do not materially alter the character of the work contemplated by the contract.

(b) A change order, consisting of one or more changes permitted by subsection (A) above, where the net change, taking into account both increases and decreases in cost, increases the cost of the contract to the City by an amount not in excess of \$50,000.

(c) A change order extending the contract completion date by not more than 90 calendar days.

(d) A change order comprised of administrative changes with no change in cost or completion date.

(e) Any change orders where the sum of all change orders and the original contract amount do not exceed \$100,000.

(2) Notwithstanding the provisions of (B)(1) above, the City Manager is not authorized to approve a change order under either of the following conditions:


(a) Where the sum of all change orders issued under the contract exceed \$100,000 or 10% of the original contract amount, whichever is less, except as authorized in §38.48(B)(1)(e) above; or

(b) Where the cumulative effect of all approved change orders will result in the extension of a contract completion date by more than 180 calendar days.

Funding has been provided in the fiscal year 2023 budget for Fire Rescue in Account Number 001.215101.52200.552160.000000.000.000 and 111.219801.52200.564530.000000.000.000.

RECOMMENDATION:

Change order approval in the amount of \$14,000.00 to Municipal Equipment Company, LLC for the purchase of Bunker Gear and Related Accessories.

DocuSigned by:


4/11/2023

APPROVED BY: George Keller, Jr. CPPT
City Manager

Date: _____

Attachments: Blanket Purchase Agreement: PA600560
R-2022-276: Municipal Equipment Company, LLC
Certificate of Insurance Approval from Risk Management



Blanket Purchase Agreement PA600560

Supplier Details:

Company Municipal Equipment Company, LLC
Contact Justin D. Elkins
Address 2049 West Central Blvd
Orlando, FL 32805

Submit your response to:

Company City of Hollywood, FL - Fire Administration
Contact Poli, Alexander
Address 2741 Stirling Rd
Hollywood FL 33020
Phone 1-954-967-4248
Fax
E-mail apoli@hollywoodfl.org

Dear Vendor:

This is to inform you that the City of Hollywood, Florida is entering a Blanket Purchase Agreement with your Company based on the following:

Piggyback Lake County Contract 22-730H; R-2022-276 dated 9/21/22



Blanket Purchase Agreement PA600560

Agreement	PA600560
Creation Date	26-SEP-2022
Revision	0
Agreement Amount	140,000.00 USD

VENDORS MUST INCLUDE THE CITY'S PURCHASE ORDER NUMBER ON ALL INVOICES. PLEASE SUBMIT ALL INVOICES TO ACCOUNTSPAYABLE@HOLLYWOODFL.ORG.

OR
Mail To **City of Hollywood**
Accounts Payable, Room 119
P.O. Box 229045
Hollywood, FL 33022-9045

Supplier **Municipal Equipment Company, LLC**
2049 West Central Blvd
Orlando, FL 32805

Notes The Lake County Contract # 22-730H terms and conditions prevail over the City's Purchase Order terms and conditions.

Customer Account Number	Supplier Number	Payment Terms	Freight Terms	FOB
	32188	Net 30	None	Destination
	Start Date	End Date	Shipping Method	
	09/21/2022	07/31/2023		
Initial Award Term	08/01/2022	07/31/2023		
First Renewal Period	08/01/2023	07/31/2025		
Second Renewal Period	08/01/2025	07/31/2027		
Third Renewal Period				
Fourth Renewal Period				

Attachments			
Type	File Name or URL	Title	Description

Line	Item	UOM	Price	Expiration Date								
1	CVBM-32 JANESVILLE V-FORCE BI-SWING COAT, 32" LENGTH, PER SPECIFICATION LIST PRICE \$3282.00 LIST - 35%	Each	1,567.02									
<table border="1"> <thead> <tr> <th colspan="4">Attachments</th> </tr> <tr> <th>Type</th> <th>File Name or URL</th> <th>Title</th> <th>Description</th> </tr> </thead> </table>					Attachments				Type	File Name or URL	Title	Description
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Type	File Name or URL	Title	Description									
2	SEW ON HAZMAT PATCH JANESVILLE SEW ON HAZMAT PATCH OPTION LIST PRICE \$41.77 LIST - 35%	Each	27.15									



Blanket Purchase Agreement PA600560

Line	Item	UOM	Price	Expiration Date															
<table border="1"> <thead> <tr> <th colspan="5">Attachments</th> </tr> <tr> <th>Type</th> <th>File Name or URL</th> <th>Title</th> <th>Description</th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="5"> </td> </tr> </tbody> </table>					Attachments					Type	File Name or URL	Title	Description						
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Type	File Name or URL	Title	Description																
3	PVFM JANESVILLE V-FORCE LOW RISE PANT WITH SUSPENDER PER SPECIFICATION LIST PRICE \$2284.00 LIST - 35%	Each	1,116.73																
<table border="1"> <thead> <tr> <th colspan="5">Attachments</th> </tr> <tr> <th>Type</th> <th>File Name or URL</th> <th>Title</th> <th>Description</th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="5"> </td> </tr> </tbody> </table>					Attachments					Type	File Name or URL	Title	Description						
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4	507502 HAIX EAGLE AIR BOOTS LIST PRICE \$524.00 LIST - 20%	Each	393.00																
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5	LPG928BLK LION COMMANDER ACE GLOVES LIST PRICE \$133.00 LIST - 20%	Each	104.00																
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Type	File Name or URL	Title	Description																
6	LIOHD395142 LION REDZONE PARTICULATE HOOD - BLACK LIST PRICE \$140.00 LIST - 20%	Each	99.00																
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Type	File Name or URL	Title	Description																
7	ULW6R350 BULLARD LIGHTWEIGHT TRADITIONAL STYLED FIBERGLASS STRUCTURAL HELMET WITH RETRAK INTEGRATED VISOR AND 6" BRASS EAGLE LIST PRICE \$529.02 LIST - 5	Each	345.00																



Blanket Purchase Agreement PA600560

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8	6-3 PAUL CONWAY 6" LEATHER SHIELD, DRILLED TO FIT A BULLARD ULW6R350 HELMET, BRASS BACK BRACKET - LIST PRICE \$52.24 LIST - 2%	Each	51.20													
<table border="1"> <thead> <tr> <th colspan="4">Attachments</th> </tr> <tr> <th>Type</th> <th>File Name or URL</th> <th>Title</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Attachments				Type	File Name or URL	Title	Description				
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Type	File Name or URL	Title	Description													
9	JASR842X JANESVILLE 42" SUSPENDER RECTANGULAR METAL LOOPS LIST PRICE \$149.00 LIST - 35%	Each	91.25													
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10	Per the Pricing and Services on Lake County Contract # 22-730H		0.00													
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Blanket Purchase Agreement PA600560

TERMS AND CONDITIONS

The following Terms and Conditions are applicable to this order entered into by and between the City of Hollywood (referred to as Buyer) and Vendor (referred to as Seller).

MODIFICATIONS

This purchase order form and any other document pertaining to this transaction which has been acknowledged in writing by the Director is a complete and exclusive statement of this order. Accordingly no modification or amendment shall be binding upon the Buyer unless signed by the Director. The City Attorney has approved these standard terms and conditions as to form and legality. Accordingly no modification of these terms and conditions shall be binding upon buyer unless they are endorsed and approved by the City Attorney. In the event of a conflict between these terms and conditions and any other document pertaining to the transaction covered by this order, these terms and conditions shall prevail.

ASSIGNMENT

Any assignment of this order or the performance of work hereunder, in whole or in part, is prohibited.

EXCUSABLE DELAYS

The Buyer may grant additional time for any delay or failure to perform hereunder if the delay will not adversely impact the best interests of the Buyer and is due to causes beyond the control of to Seller. Such grant must be in writing and made part of the order.

DEFAULT

In the event of default by the Seller, Buyer may procure the articles or services covered by this order from other sources and hold to Seller responsible for any excess costs occasioned thereby, in addition to all other available remedies at law or equity.

TERMINATION

Buyer, acting through its City Manager or his/her designee, reserves the right to terminate this order In whole or in part for default (a) if Seller fails to perform In accordance with any of the requirements of this order or (b) If Seller becomes insolvent or suspends any of its operations or if any petition is filed or proceeding commenced by or against Seller under any State or Federal Law relating to bankruptcy, reorganization, receivership or assignment for the benefit of creditors. Any such termination will be without liability to Buyer except for completed Items delivered and accepted by the Buyer. Seller, will be liable for excess costs of reprourement.

F.O.B.

In those cases where F O.B. point is not Destination, Seller is required to prepay freight charges and list separately on invoice. Collect shipments will not be accepted.

TERMS

By accepting this order, the Seller agrees that payment terms shall be Net 30 unless otherwise stated.

INVOICING

Seller must render original invoice to the City of Hollywood, Department of Financial Services, P.O. Box 229045, Hollywood, Florida 33022-9045.

TAX

The City of Hollywood is exempt from Federal and State taxes for tangible personal property. Sellers doing business with the City, which are not otherwise exempt, shall not be exempt from paying sales tax to their suppliers for materials to fulfill contractual obligations with the City, nor shall any Seller be authorized to use the City Tax Exemption Number in securing such materials.

RESPONSIBILITY

Responsibility will not be accepted for any goods delivered or services performed unless covered by a duly signed and authorized City of Hollywood order, issued by the Procurement Services Division.

ACCEPTANCE

Seller's acceptance of this order will be presumed unless Seller acknowledges exception, in writing, to Buyer within ten (10) calendar days after date of order.

DELIVERIES

Deliveries are to be made during the hours of 7:30 a.m. to 4:00 p.m. Monday through Friday, excluding holidays, unless otherwise stipulated. Seller shall notify the Buyer of deliveries that require special handling and/or assistance for off-loading. Failure to notify the Buyer concerning this type of delivery will result in the billing to Seller of any add-on redelivery, storage or handling charges.

INSPECTION

All Commodities delivered on this order are subject to inspection upon receipt by a representative of the Buyer. All rejected



Blanket Purchase Agreement PA600560

commodities shall remain the property of the Seller and will be returned at the Seller's expense.

QUANTITIES

Quantities specified in the order cannot be changed without Buyer approval. Goods shipped in excess of quantity designated may be returned at the Seller's expense.

PAYMENT CHANGES

Payments will be made only to the company and address as set forth on order unless the Seller has requested a change thereto on official company letterhead, signed by an authorized officer of the company.

ANTI-DISCRIMINATION

Sellers doing business with the Buyer are prohibited from discriminating against any employee, applicant or client because of race, creed, color, national origin, sex or age with regard to but not limited to the following: employment practices, rates of pay or other compensations, methods and training selection.

UNIFORM COMMERCIAL CODE

Florida law, including without limitation the Uniform Commercial Code (Chapter 670 – 680, Florida Statutes), shall apply to and supplement the terms and conditions of this order. Venue shall lie in a court of competent jurisdiction in Broward County, Florida.

LEGAL RESPONSIBILITY

By accepting this order, Seller understands and agrees that the items covered herein, or services to be rendered, shall be manufactured, sold or performed in compliance with applicable Federal, State, County and Local laws, ordinances, rules and regulations. Lack of knowledge by the Seller shall in no way be a cause for relief from responsibility.

LIABILITY - COPYRIGHT/PATENT/TRADEMARK

Seller shall save and hold harmless Buyer, its officers, employees and agents from liability for infringement of any United States patent, trademark or copyright for or on account of the use of any product sold to Buyer or used in the performance of this order.

INDEMNIFICATION

Seller shall indemnify, hold harmless and defend Buyer, its officers, employees and agents from and against any and all claims, damages, liability, judgments or causes of action, including costs, expenses and attorney fees, incurred as a result of any error, omission or negligent act by the Seller, its officers, employees, agents, subcontractors or assignees arising out of this order.

OCCUPATIONAL SAFETY AND HEALTH

Seller must comply with requirements under Chapter 442, Florida Statutes, that any toxic substance delivered as a part of this order must be accompanied by a Materials Safety Data Sheet (M.S.D.S.).

REPRESENTATIVE

All parties to this order agree that the representatives named herein are, in fact, bonafide and possess full and complete authority to bind said parties.

PUBLICITY

No endorsement by the City of the product and/or service will be used by Seller in any way, manner or form in product literature or advertising.

INSURANCE

The Seller of services must have secured and maintained the required amount of \$1,000,000 general and \$500,000 automobile liability limits and must list the City as an additional insured of this coverage. The Seller must have worker's compensation coverage as required by law. Any exception to the above stated limits or other requirements must be endorsed and approved by the City of Hollywood Risk Manager.

WARRANTY

For purposes of this order, Seller warrants: (a) the goods shall strictly conform to all specifications, drawings, instructions, advertisements, statements on containers or labels, descriptions and samples; (b) the goods shall be free from defects in workmanship and material and shall be new and of the highest quality; (c) Buyer shall receive title to the goods that is free and clear of any liens, encumbrances and any actual or claimed patent, copyright or trademark infringement; (d) the goods shall be merchantable, safe and fit for the Buyer's intended purposes, which purposes have been communicated to Seller; (e) the goods shall be adequately contained, packaged, marked and labeled; and (f) the goods shall be manufactured in compliance with all applicable federal, state and local laws, regulations or orders, and agency or association standards or other standards applicable to the manufacture, labeling, transporting, licensing, approval or certification, including by way of illustration and not by way of limitation, the Occupational Health and Safety Act, the Fair Labor Standards Act, and any law or order pertaining to discrimination.



Blanket Purchase Agreement PA600560

In the event that services are provided in connection with the supply of goods, Seller expressly warrants that the services will be performed: (a) with due professional care; (b) in a workmanlike, professional, timely and diligent manner; (c) in accordance with all applicable industry standards and industry best practices; (d) by qualified workers experienced in performing the work specified; (e) in strict conformance with applicable specifications and industry accepted performance criteria; and (f) in strict conformance with this order, including but limited to any statement(s) of work issued, or quote(s) received, by Buyer.

The warranty period shall be 12 months from the date of first use of the goods by Buyer or 12 months from the date of acceptance by Buyer, whichever occurs later, unless otherwise mutually agreed to by the Buyer and Seller.

Notwithstanding the foregoing, Seller agrees to waive the expiration of the warranty period in the event there are failures or defects discovered after the warranty period of a material nature or in a significant portion of the goods, or a defect is discovered which, in Buyer's opinion, constitutes a threat of damage to property or to the health and safety of any person.

Signature: Steve Stewart
Assistant Director, Financial Services for Procurement

PASSED ON THE 9-21-22 COMMISSION MEETING

CHIEF POLI

RESOLUTION NO. R-2022-276

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA, APPROVING AND AUTHORIZING THE APPROPRIATE CITY OFFICIALS TO EXECUTE A BLANKET PURCHASE AGREEMENT WITH MUNICIPAL EQUIPMENT COMPANY, LLC FOR BUNKER GEAR AND RELATED ACCESSORIES IN AN ANNUAL AMOUNT NOT TO EXCEED \$140,000.00, BASED UPON THE LAKE COUNTY, FLORIDA, CONTRACT 22-730H IN ACCORDANCE WITH SECTION 38.41(C)(5) OF THE PROCUREMENT CODE (PIGGYBACK).

WHEREAS, the Department of Fire Rescue desires to purchase Bunker Gear and related accessories for firefighting activities; and

WHEREAS, the Bunker Gear and related accessories were competitively bid by Lake County, Florida through Bid Number 22-730: Fire Equipment, Supplies and Services on April 28, 2022 and awarded to Municipal Equipment Company, LLC under Contract: 22-730H; and

WHEREAS, the current term of Contract 22-730H is from August 1, 2022 through July 31, 2023, with an option to renew for two two-year terms at Lake County's sole option; and

WHEREAS, Municipal Equipment Company, LLC has agreed to extend to the City the same pricing under the terms and conditions set forth in Contract 22-730H, for an annual amount not to exceed \$140,000.00; and

WHEREAS, Section 38.41(C)(5) of the Procurement Code allows the Chief Procurement Officer to procure, without formal solicitation procedures, all goods, supplies, materials, equipment, and services that are the subject of contracts with the state, its political subdivisions, the United States government, other governmental entities, or a corporation not for profit whose members are governmental entities, public officers, or any combination thereof ("piggyback"), provided that the goods, supplies, materials, equipment, or services are the subject of a price schedule negotiated by the entities listed above and is based strictly on competitive bids, quotations, or competitive proposals and not on any preference and such utilization of other governmental entities contracts shall be permitted only during the term of the other governmental entity's contract; and

WHEREAS, the Fire Chief recommends that the City Commission approve and authorize the execution of a Blanket Purchase Agreement with Municipal Equipment Company, LLC based upon Contract 22-730H for Bunker Gear and related accessories in an annual amount not to exceed \$140,000.00; and

WHEREAS, funding for the attached Blanket Purchase Agreement has been appropriated and exists in account numbers 001.215101.52200.552160.000000.000.000 and 111.219801.52200.564530.000000.000.000.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA:

Section 1: That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct and are incorporated in this Resolution.

Section 2: That it approves and authorizes the execution, by the appropriate City officials, of a Blanket Purchase Agreement with Municipal Equipment Company, LLC, together with such non-material changes as may subsequently be agreed to by the City Manager and approved as to form and legal sufficiency by the City Attorney.

Section 3: That this Resolution shall be in full force and effect immediately upon its passage and adoption.

PASSED AND ADOPTED this _____ day of _____, 2022.

JOSH LEVY, MAYOR

ATTEST:

PATRICIA A. CERNY, MMC
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY for the use and reliance of the City of Hollywood, Florida, only.

DOUGLAS R. GONZALES
CITY ATTORNEY



CITY OF HOLLYWOOD, FLORIDA

PROCUREMENT SERVICES DIVISION

Piggyback Request Form

(Use for purchase(s) over \$5,000, when piggybacking off other contracts)

Date 08-01-2022

Department/Office Fire Rescue

Division/Area 215101

Requestor Alexander N. Poli

Title Division Chief of Administration

Phone (954) 967-4248

Email Apoli@hollywoodfl.org

1. Requested Vendor Municipal Equipment Company

Vendor Number 32188

Address 2049 West Central Blvd
Orlando, FL, 32805

Contact Person Dale West

Title Sales

Phone (800) 228-8448

Email: Dwest@mecofire.com

2. Contract title and number requesting to piggyback? Contract # 22-730H

Awarding Agency: Lake County, FL

Contract Expiration Date 7/31/2023

Copy of Contract and Awarding Agency documentation is attached (provide if available).

Yes No

3. Product/Service being requested (be specific). Bunker Gear (PPE) and Accessories

4. Detailed description of the product/service's function and purpose. The Bunker Gear (Personal Protective Equipment) and the Accessories are utilized by firefighters during firefighting activities. In addition to, Fire Helmets, Fire Hoods, Fire Boots, and other miscellaneous items are needed for firefighting operations.

5. Please explain what process the Department/Office took to verify and/or identify this contract. Multiple Fire Departments were contacted for these items and Municipal Equipment Company and this contract provided the best value.

6. Were alternative contracts evaluated to determine that the City is obtaining the most advantageous contract pricing for the required product/service?

Yes No

Please explain This contract provided the best price for the goods required.

7. Total cost of the requested product/service. \$140,000.00

8. Total estimated annual (fiscal year) cost of requested product/service. \$140,000.00

Account Number(s) 001.215101.52200.552160.000000.000.000 & 111.219801.52200.564530.000000.000.000.

9. Is this product/service covered by a warranty? Yes No

If yes, please attach a copy of the warranty details.

10. Will grant funds be used to pay for the requested product/service? Yes No

If yes, please explain N/A

REQUESTING DEPARTMENT RECOMMENDATION

Note: By signing and returning this form, you are verifying and acknowledging that you have reviewed all portions (scope, terms, conditions, pricing, etc.) of the requested contract(s) and recommend its/their approval based on compliance with the City's procurement requirements and all applicable laws and regulations to the best of your knowledge.


Requestor's Signature

8/2/22
Date


Director's Signature

8/2/22
Date



Piggyback Checklist

Using Department(s): Fire Rescue

Piggyback Contract Number/Name: Lake County, FL Contract: 22-730H for Fire Equipment, Supplies and Services

Services/Supplies to be provided: Bunker Gear (PPE) and Accessories

Why are Services/Supplies being obtained via piggyback (as opposed to issuing a solicitation or obtaining quotes): It provides the best price for the service.

Procurement Code, Section 38.41(C)(5):

(5) *Piggyback purchases.* The CPO (Chief Procurement Officer) may procure, without following formal solicitation procedures, all goods, supplies, materials, equipment, and services that are the subject of contracts with the state, its political subdivisions, the United States government, other governmental entities, or a corporation not for profit whose members are governmental entities, public officers, or any combination thereof ("piggyback"), provided that the goods, supplies, materials, equipment, or services are the subject of a price schedule negotiated by the entities listed above and is based strictly on competitive bids, quotations, or competitive proposals and not on any preference. Utilization of other governmental entities' contracts shall be permitted only during the term of the other governmental entity's contract.

Piggyback Justification Criteria	YES	NO	COMMENT
Is the piggyback contract's pricing/terms more favorable than pricing/terms we would obtain from issuing our own solicitation or obtaining our own quotes?	Yes		
Will use of the piggyback contract save City staff administrative time, efforts and resources?	Yes		
Will the requested services/supplies be purchased with funds other than grant funds or funds that prohibit the use of piggybacking?	Yes		
*If you answered no to any of the questions above in this section, please disregard piggybacking the desired services/supplies and terminate any further completion of this form unless otherwise granted administrative approval to piggyback by authorized City Management staff.			

ITEMS VERIFIED	YES	NO	COMMENT
Does the piggyback contract allow the utilization of the contract by other entities, including use in the state of FL if it's an out of state contract?	Yes		Allows use by all government entities
Was the contract awarded through a solicitation or other acceptable competitive process that was publicly advertised?	Yes		Lake County, FL via BID Number: 22-730 for Fire Equipment, Supplies & Services
Piggyback Contract is Valid? Contract Expiration Date:	Yes		07/31/2023
Goods / Services requested by the Using Department(s) match those allowed under the piggyback contract and do not extend beyond the expiration date of the piggyback contract?	Yes		

Does the piggyback contract have acceptable terms and conditions?	Yes		
Did the vendor confirm that the piggyback contract is authorized to be used with the established terms, conditions, and pricing?	Yes		Vendor approves of using the contract.
Is pricing "Fair and Reasonable" in the piggyback contract?	Yes		
Piggyback Contract Certificate(s) of Insurance (COI) is acceptable to the COH's Risk Management?	Yes		
Piggyback Contract has Warranty Conditions?		Yes	
Piggyback Contract has liquidated damages (if Yes, provide the daily liquidated amount)		No	

Requestor's Signature: Alexander N. Poli

Date: 08-01-2022

Director's Signature: Dan Booker

Date: 08-01-2022

CPO Signature: _____

Date: _____



MUNICIPAL EQUIPMENT -
FLORIDA
408 BIF COURT
ORLANDO, FL 32809
PHONE (800) 228-8448

Quote

Entered Date	Taken By	Customer #	Order #
6/30/22	DW01	8290	431676-00
PO #	Requested Ship Date		Page #
	6/30/22		1



Bill To	Ship To	Correspondence To
CITY OF HOLLYWOOD ACCOUNTS PAYABLE 2600 HOLLYWOOD BLVD HOLLYWOOD, FL 33020-4807	CITY OF HOLLYWOOD FIRE DEPT 2741 STIRLING ROAD, 3RD FLOOR HOLLYWOOD, FL 33312	MUNICIPAL EQUIPMENT CO, LLC 408 BIF COURT EMAIL: SALES@MECOFIRE.COM PHONE (800) 228-8448 ORLANDO, FL 32809

Instructions

Ship Point	Via	Shipped	Terms
MUNICIPAL EQUIPMENT - FLORIDA	Fedex		NET 30 DAYS

Notes

Line	Product and Description	UPC Item	Order Quantity	Shipped Quantity	Qty UM	Unit Price	Price UM	Amount(Net)
1	CVBM-32 JANESVILLE V-FORCE BI-SWING COAT, 32" LENGTH, PER SPECIFICATION LIST PRICE \$3282.00 LIST - 35%	00000	1.00	1.00	each	1,567.02	each	1,567.02
2	SEW ON HAZMAT PATCH JANESVILLE SEW ON HAZMAT PATCH OPTION LIST PRICE \$41.77 LIST - 35%	00000	1.00	1.00	each	27.15	each	27.15
3	PVFM JANESVILLE V-FORCE LOW RISE PANT WITH SUSPENDER PER SPECIFICATION LIST PRICE \$2284.00 LIST - 35%	00000	1.00	1.00	each	1,116.73	each	1,116.73
4	507502 HAIX EAGLE AIR BOOTS LIST PRICE \$524.00 LIST - 20%	00000	1.00	1.00	PR	393.00	PR	393.00
6	LPG928BLK LION COMMANDER ACE GLOVES LIST PRICE \$133.00 LIST - 20%	00000	1.00	1.00	PR	104.00	PR	104.00
7	LIOHD395142 LION REDZONE PARTICULATE HOOD - BLACK LIST PRICE \$140.00 LIST - 20%	00000	1.00	1.00	EA	99.00	EA	99.00
8	ULW6R350 BULLARD LIGHTWEIGHT TRADITIONAL STYLED FIBERGLASS STRUCTURAL HELMET	00000	1.00	1.00	each	345.00	each	345.00



MUNICIPAL EQUIPMENT -
FLORIDA
408 BIF COURT
ORLANDO, FL 32809
PHONE (800) 228-8448

Quote

Entered Date	Taken By	Customer #	Order #
6/30/22	DW01	8290	431676-00
PO #	Requested Ship Date		Page #
	6/30/22		2



Line	Product and Description	UPC Item	Order Quantity	Shipped Quantity	Qty UM	Unit Price	Price UM	Amount(Net)
	WITH RETRAK INTEGRATED VISOR AND 6" BRASS EAGLE LIST PRICE \$529.02 LIST - 5%							
9	6-3 PAUL CONWAY 6" LEATHER SHIELD, DRILLED TO FIT A BULLARD ULW6R350 HELMET, BRASS BACK BRACKET - LIST PRICE \$52.24 LIST - 2%	00000	1.00	1.00	each	51.20	each	51.20
10	JASR842X JANESVILLE 42" SUSPENDER RECTANGULAR METAL LOOPS LIST PRICE \$149.00 LIST - 35%	00000	1.00	1.00	EA	91.25	EA	91.25
11	M Memo: PER LAKE COUNTY CONTRACT #22- 730 - PRICES QUOTED INCLUDE FREIGHT - QUOTE EXPIRES ON 6/30/23	00000	1.00	1.00	EA	0.00	EA	0.00
10	Lines Total		Total Order Quantity	10.00			Subtotal	3,794.35
							Taxes	0.00
							Total	3,794.35

[MENU](#)

Helpful Links

[Procurement Services Home](#)[Become a Vendor](#)[Bid Status Info](#)[Commodity Code Assignments](#)[Formal Solicitations](#)[Informal Solicitations](#)[Terms & Supply Agreements](#)[Upcoming Formal Solicitations](#)

Contact Procurement Services

Phone: [352-343-9839](tel:352-343-9839) **Physical Address:**[315 W. Main St.](#)[Suite 416](#)[Tavares, FL 32778](#)**Mailing Address:**

P.O. Box 7800

Tavares, Florida 32778

DETAILS FOR BID NUMBER: 22-730

The County may issue changes (addendum) to the solicitation documents. Proposers are responsible for checking this site for any addendum prior to submitting their proposals. Proposals that do not acknowledge the addenda may be rejected. Addendum and another other electronic documents can be found under the "Bid Documents" section. For questions concerning this project, please contact the Contracting Officer listed below by e-mail or telephone.

Bid/RFP Number: 22-730

Response Deadline: 4/28/2022 3:00:00 PM

Project Title: Fire Equipment, Supplies, & Services

Status: Awarded (7/27/2022 2:41:14 PM) to:

All Safe Industries
; Bennett Fire Products Company; Fisher Scientific Company; Henry Schein; Life-Assist; Medline Industries; Municipal Emergency Services; Municipal Equipment Company; North American Fire Equipment Co.; TechnicalRescue.com; Ten-8 Fire

Department: Procurement Services

Project Description: The purpose of this solicitation is to solicit competitive sealed submittals to furnish FIRE EQUIPMENT, SUPPLIES, AND SERVICES for Lake County, Florida. T

Preconference:

Contracting Officer: Gretchen Bechtel

Officer Email: gbechtel@lakecountyfl.gov 

Officer Phone: (352) 343-9765

Agenda Item Number: (Approved: 8/1/2022)

Special Notes:

Lake County has implemented a Solicitation Management Portal. All responses to Lake County's solicitations are required to be submitted at the link below unless specifically stated otherwise in the solicitation document.

[Submit Response](#)

Bid Documents:

- [22-730 Fire Equipment - Supplies & Services](#)
- [2A - Bid Tabulation](#)
- [2B - Bid Tabulation](#)
- [Attachment 1 - Submittal FILLABLE Form](#)
- [Attachment 2A - Services Pricing FILLABLE Sheet](#)
- [Attachment 2B - Equipment & Supplies Pricing FILLABLE Form](#)
- [Attachment 3 - References FILLABLE Form](#)
- [Exhibit A - Scope of Services](#)
- [Exhibit B - Insurance Requirements](#)
- [Exhibit C - General Terms & Conditions](#)
- [No. 2 Addendum to 22-730](#)
- [No.1 Addendum to 22-730](#)

[Download Adobe Reader](#)

MENU



Physical Address

315 W. Main St.
Tavares, FL 32778

Mailing Address

P.O. Box 7800
Tavares, FL 34778

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Email Address	GO
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Enter your email address above.

Social

Helpful Links

- [AHPS - St. Johns River Gauge Data](#)
- [AlertLake](#)
- [Department of Homeland Security](#)
- [Federal Emergency Management](#)
- [FloodSmart.gov](#)
- [Lake County Flood Information](#)
- [MyFlorida.com](#)

"Real Florida. Real Close." is a registered trademark of the Lake County Board of County Commissioners. [Disclaimer](#)

From: [Certificate of Insurance](#)
To: [Certificate of Insurance](#); [Alexander Poli](#)
Subject: FW: COI Approval for Municipal Equipment Company
Date: Thursday, July 28, 2022 4:08:15 PM
Attachments: [COI for Municipal Equipment Company.pdf](#)

acceptable

From: Alexander Poli <APoli@hollywoodfl.org>
Sent: Thursday, July 28, 2022 2:54 PM
To: Certificate of Insurance <COI@hollywoodfl.org>
Subject: COI Approval for Municipal Equipment Company

Hello,

Please advise if the above COI is satisfactory. Municipal Equipment Company comes to our facilities to measure firefighters for Bunker Gear (PPE).

Sincerely,

Alexander N. Poli
Division Chief of Administration
Hollywood Fire Rescue & Beach Safety Department
2741 Stirling Rd, 3rd Floor
(Office) 954-967-4248
(Cell) 561-307-7181



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
7/28/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER O'Neil, Lee & West, Inc. 408 E. Ridgewood Street Orlando FL 32803	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">CONTACT NAME: Matt West</td> </tr> <tr> <td>PHONE (A/C. No. Ext): 407-425-3411</td> <td>FAX (A/C. No.): 407-843-2632</td> </tr> <tr> <td colspan="2">E-MAIL ADDRESS: matt@olwinc.com</td> </tr> <tr> <td colspan="2" style="text-align: center;">INSURER(S) AFFORDING COVERAGE</td> </tr> <tr> <td>INSURER A : Great American Insurance Co.</td> <td style="text-align: right;">NAIC # 16691</td> </tr> <tr> <td>INSURER B : Hartford Accident & Indemnity</td> <td style="text-align: right;">22357</td> </tr> <tr> <td>INSURER C : Twin City Fire Ins Co</td> <td style="text-align: right;">29459</td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	CONTACT NAME: Matt West		PHONE (A/C. No. Ext): 407-425-3411	FAX (A/C. No.): 407-843-2632	E-MAIL ADDRESS: matt@olwinc.com		INSURER(S) AFFORDING COVERAGE		INSURER A : Great American Insurance Co.	NAIC # 16691	INSURER B : Hartford Accident & Indemnity	22357	INSURER C : Twin City Fire Ins Co	29459	INSURER D :		INSURER E :		INSURER F :	
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INSURER D :																					
INSURER E :																					
INSURER F :																					
INSURED Municipal Equipment Co, LLC R and B Associates LLC 408 Bif Court Orlando FL 32805	MUNIEQU-01																				

COVERAGES **CERTIFICATE NUMBER: 768832660** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y		PL17436705	2/14/2022	2/14/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 20,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y		21UECDE6947	2/14/2022	2/14/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			XS328837402	2/14/2022	2/14/2023	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	21WBCVX2986	5/22/2022	5/22/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 The City of Hollywood is included as Additional Insured where required by written contract with respect to General Liability and Commercial Auto.

CERTIFICATE HOLDER City of Hollywood PO Box 229045 Hollywood FL 33022	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
---	--



CONTRACT NO. 22-730H
For
Fire Equipment, Supplies, and Services

LAKE COUNTY, FLORIDA, a political subdivision of the State of Florida, through its Board of County Commissioners (hereinafter "County") does hereby accept, with noted modifications, if any, the bid of **Municipal Equipment Company, LLC.** (hereinafter "Contractor") to supply **Fire Equipment, Supplies, and Services** to the County pursuant to County Bid number 22-730 with any included addenda (hereinafter "Bid"), with an opening date of 4/28/2022, and Contractor's Bid response dated 4/20/2022, thereto with all County Bid provisions governing.

A copy of the Contractor's signed Bid is attached hereto and incorporated herein, thus making it a part of this Contract except that any items not awarded have been struck through. The attachments noted below (if any) are attached hereto and are also made a part of this Contract.

ATTACHMENTS:

Addendum 1 & 2, Exhibit A – Scope of Work, Exhibit B – Insurance Requirements, Attachment 1 – Submittal Form with General Terms & Conditions acceptance, Attachment 2 – Pricing Sheet

No financial obligation under this Contract shall accrue against the County until a specific purchase transaction is completed pursuant to the terms and conditions of this Contract.

Contractor shall submit the documents hereinafter listed prior to commencement of this Contract: N/A

The County's Procurement Services Director shall be the sole judge as to the fact of the fulfillment of this Contract, and upon any breach thereof, shall, at his option, declare this Contract terminated, and for any loss or damage by reason of such breach, whether this Contract is terminated or not, said Contractor and their surety for any required bond shall be liable.

This Contract is effective from 8/1/2022 through 7/31/2023, except the County reserves the right to terminate this Contract immediately for cause and/or lack of funds and with thirty (30) day written notice for the convenience of the County. This Contract provides for two (2) two (2) year renewals at Lake County's sole option at the terms noted in the Bid.

Any and all modifications to this Contract must be in writing signed by the County's Procurement Services Director.

LAKE COUNTY, FLORIDA


By: Gretchen Bechtel, CPPB

Contracting Officer II

Date: 07/26/2022

Distribution: Original-Bid File
Copy-Contractor
Copy-Department

ADDENDUM NO. #2

22-730



REAL FLORIDA • REAL CLOSE
Office of Procurement Services

P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICITATION: Fire Equipment, Supplies, and Services

04/12/2022

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Q1. Section 5.0 Method of Award - Is it the County's intention to award to multiple vendors as they have done in the past?

R1. Per Section 5.0 Method of Award; The County reserves the right to make awards on a lowest price basis by individual item, group of items, all or none, or a combination; with one or more Vendors

Q2. Section 3.0 Delivery Requirements and Acceptance – bid calls for delivery of all products within 10 calendar days. For items in stock this is possible, but for items on order the delivery time will vary by product and brand. The delivery time can be given when a quote is requested.

R2. Per Section 3.0 Delivery Requirements and Acceptance Section 3.5.1 Back order may be cancelled after the shipment period has lapsed. Cancellation of orders are at the discretion of the County.

Q3. Certain manufacturers are now including a significant surcharge to our cost which is in addition to the list price. For the county to purchase these brands off this contract, a surcharge will need to be allowed.

R3. The solicitation provides for percent off list price. Cost shall be in accordance with contract pricing. Any additional fees shall be borne of the vendor.

ACKNOWLEDGEMENT

Firm Name: Municipal Equipment Company, LLC

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *Mathew Fenneman*

Date: 4/20/2022

ADDENDUM NO. #2

22-730

Print Name: Mathew Fenneman

Title: President

Primary E-mail Address: matt@mecofire.com

Secondary E-mail Address: mfenneman@mecofire.com

ADDENDUM NO. #1

22-730



Office of Procurement Services

P.O. Box 7800 • 315 W. Main St., Suite 441 • Tavares, FL 32778

SOLICITATION: Fire Equipment, Supplies, and Services

03/28/2022

Vendors are responsible for the receipt and acknowledgement of all addenda to a solicitation. Confirm acknowledgement by including an electronically completed copy of this addendum with submittal. Failure to acknowledge each addendum may prevent the submittal from being considered for award.

THIS ADDENDUM DOES NOT CHANGE THE DATE FOR RECEIPT OF PROPOSALS.

QUESTIONS/RESPONSES

Q1. I reviewed the attachments for bid 22-730 on Lake County's website and it doesn't look like the attachments have any items that need to be priced. Is there a file with the equipment and supplies you would like pricing for?

R1. Attachments 2A and 2B – The vendor shall list manufacturer brands supported.

Q2. I am looking at the Bid/RFP Number: 22-730 bid opportunity and wanted to find if I am not seeing the Attachment 2B, properly? I have opened and downloaded, but I am not seeing any of the equipment or supplies listed.

R2. Attachments 2A and 2B – The vendor shall list manufacturer brands supported.

ACKNOWLEDGEMENT

Firm Name: Municipal Equipment Company, LLC

I hereby certify that my electronic signature has the same legal effect as if made under oath; that I am an authorized representative of this vendor and/or empowered to execute this submittal on behalf of the vendor.

Signature of Legal Representative Submitting this Bid: *Mathew Fenneman*

Date: 4/20/2022

Print Name: Mathew Fenneman

Title: President

Primary E-mail Address: matt@mecofire.com

Secondary E-mail Address: mfenneman@mecofire.com

**EXHIBIT A – SCOPE OF SERVICES
FIRE EQUIPMENT, SUPPLIES, AND SERVICES**

22-730

The County is establishing a vendor pool for fire equipment, supplies, and services. The County does not guarantee a dollar amount to be expended on any resulting contract(s).

1. SCOPE OF SERVICES

All items purchased shall be in accordance with all governmental standards to include, but not be limited to, those issued by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety Hazards (NIOSH), and the National Fire Protection Association (NFPA). MSDS sheets shall be provided with the shipment of any hazardous materials as required by 29 CFR 1910.1200.

2. CONTRACTOR'S RESPONSIBILITIES

Contractor shall:

- 2.1. Provide a website address for product and price lists for viewing and downloading.
- 2.2. Provide (upon request) a downloadable file of current catalog and manufacturer's price lists for the brands quoted.
- 2.3. Provide all labor, material, and equipment necessary for contract performance.
- 2.4. Provide an intensive training program to County staff regarding the use of the products or services supplied.
 - 2.4.1. Contractor shall bare all costs of registration fees, manuals, texts, or instructional materials associated with the required training.
 - 2.4.2. Training shall be at no additional cost to the County.

3. DELIVERY REQUIREMENTS AND ACCEPTANCE

- 3.1. Deliveries shall be FOB Destination – Inside Delivery.
- 3.2. Delivery will be to a county location named during order placement.
- 3.3. Deliveries shall be made within ten (10) calendar days and during regular business hours
 - 3.3.1. Monday through Friday, 8:00 a.m. to 5:00 p.m.
 - 3.3.2. Excludes County Holidays
- 3.4. Emergency orders shall be delivered within forty-eight (48) hours.
 - 3.4.1. The County will advise when the order is an emergency.
 - 3.4.2. Emergency/Disaster deliveries may be required during non-business hours.
- 3.5. Back orders shall be filled within ten (10) calendar days from the initial scheduled delivery.
 - 3.5.1. Back orders may be cancelled after shipment period has lapsed.

**EXHIBIT A – SCOPE OF SERVICES
FIRE EQUIPMENT, SUPPLIES, AND SERVICES**

22-730

3.6. County staff may pick-up in person if authorized in writing by supervisor.

3.6.1. Contractor shall maintain a copy of the written authorization.

3.7. County reserves the right to cancel an order after the order shipment period has lapsed.

4. REBATES AND SPECIAL PROMOTIONS

4.1. All rebates and special promotions offered by a manufacturer shall be passed on to the County.

4.2. Contractor shall be responsible to notify the County of rebates or special promotions.

4.3. Special promotions shall be offered to the County if pricing is lower than contract pricing.

5. REPAIR SERVICES

5.1. Hourly rates shall be straight-time and be full compensation for labor, equipment use, travel time, and any other incidentals.

5.2. Contractor shall possess all required equipment necessary to make effective repairs.

5.3. Contractor shall be factory certified to service equipment.

5.4. Contractor shall assume risk of loss or damage to County property until returned and accepted by County.

5.5. Contractor shall submit a written estimate for each service project.

5.5.1. The estimate shall be itemized and include:

5.5.1.1. Anticipated start date and completion date.

5.5.1.2. Number of hours at contracted hourly wages for project completion

5.5.1.3. List price of materials and discount per Attachment 2 – Pricing Sheet.

5.5.1.4. Lump sum estimates are not acceptable.

5.6. No work shall commence without a written Notice to Proceed.

5.7. All materials, workmanship, and equipment shall be subject to inspection and approval.

5.8. The Contractor shall correct all deficiencies/defects in work failing to conform to standard within ten (10) calendar days of notification at Contractor's expense.

6. TRAINING

6.1. Contractor shall supply a minimum of one (1) comprehensive repair and parts manual.

6.1.1. Manuals shall be included with equipment upon delivery.

**EXHIBIT A – SCOPE OF SERVICES
FIRE EQUIPMENT, SUPPLIES, AND SERVICES**

22-730

6.1.2. Manuals may be electronic.

7. WARRANTY REQUIREMENTS

- 7.1. The Contractor agrees that all materials shall be new, warranted for their merchantability, and fit for a particular purpose.
- 7.2. The Contractor agrees that the product and/or service furnished shall be covered by the most favorable commercial warranty.
- 7.3. Contractor shall assume the risk of loss of damage to the County's property during possession and until delivery and acceptance of property to the County.
- 7.4. The Contractor shall correct all apparent or latent deficiencies, defects in work, or any work that fails to conform at the Contractor's expense within ten (10) calendar days.

[The remainder of this page intentionally left blank]

EXHIBIT B – INSURANCE REQUIREMENTS**22-730**

A. CONTRACTOR will purchase and maintain at all times during the term of this Contract, without cost or expense to the COUNTY, policies of insurance as indicated below, with a company or companies authorized to do business in the State of Florida, and which are acceptable to the COUNTY, insuring the CONTRACTOR against any and all claims, demands, or causes of action, for injuries received or damage to property relating to the performance of duties, services, or obligations of the CONTRACTOR under the terms and provisions of the Contract. An original certificate of insurance, indicating that CONTRACTOR has coverage in accordance with the requirements of this section must be received and accepted by the COUNTY prior to contract execution or before any work begins. It will be furnished by CONTRACTOR to the COUNTY'S Project Manager and Procurement Services Director within five working days of such request. The parties agree that the policies of insurance and confirming certificates of insurance will insure the CONTRACTOR in accordance with the following minimum limits:

i. General Liability insurance on forms no more restrictive than the latest edition of the Occurrence Form Commercial General Liability policy (CG 00 01) of the Insurance Services Office or equivalent without restrictive endorsements, with the following minimum limits and coverage:

Each Occurrence/General Aggregate	\$1,000,000/2,000,000
Products-Completed Operations	\$2,000,000
Personal & Adv. Injury	\$1,000,000
Fire Damage	\$50,000
Medical Expense	\$5,000
Contractual Liability	Included

ii. Automobile liability insurance, including owned, non-owned, and hired autos with the minimum Combined Single Limit of \$1,000,000

iii. Workers' compensation insurance based on proper reporting of classification codes and payroll amounts in accordance with Chapter 440, Florida Statutes, and any other applicable law requiring workers' compensation (Federal, maritime, etc.). If not required by law to maintain workers compensation insurance, the CONTRACTOR must provide a notarized statement that if he or she is injured, he or she will not hold the COUNTY responsible for any payment or compensation.

iv. Employers Liability with the following minimum limits and coverage:

Each Accident	\$1,000,000
Disease-Each Employer	\$1,000,000
Disease-Policy Limit	\$1,000,000

B. Lake County, a Political Subdivision of the State of Florida, and the Board of County Commissioners, will be named as additional insured as their interest may appear all applicable policies. Certificates of insurance must identify the RFP or ITB number in the Description of Operations section on the Certificate.

C. CONTRACTOR must provide a minimum of 30 days prior written notice to the County of any change, cancellation, or nonrenewal of the required insurance.

EXHIBIT B – INSURANCE REQUIREMENTS**22-730**

D. Certificates of insurance must evidence a waiver of subrogation in favor of the COUNTY, that coverage must be primary and noncontributory, and that each evidenced policy includes a Cross Liability or Severability of Interests provision, with no requirement of premium by the COUNTY.

E. CONTRACTOR must provide a copy of all policy endorsements, reflecting the required coverage, with Lake County listed as an additional insured along with all required provisions to include waiver of subrogation. Contracts cannot be completed without this required insurance documentation. A certificate of insurance (COI) will not be accepted in lieu of the policy endorsements.

F. Certificate holder must be:

LAKE COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA,
AND THE BOARD OF COUNTY COMMISSIONERS.

P.O. BOX 7800

TAVARES, FL 32778-7800

G. All self-insured retentions will appear on the certificates and will be subject to approval by the COUNTY. At the option of the COUNTY, the insurer will reduce or eliminate such self-insured retentions; or CONTRACTOR will be required to procure a bond guaranteeing payment of losses and related claims expenses.

H. The COUNTY will be exempt from, and in no way liable for, any sums of money, which may represent a deductible or self-insured retention in any insurance policy. The payment of such deductible or self-insured retention will be the sole responsibility of the CONTRACTOR or subcontractor providing such insurance.

I. CONTRACTOR will be responsible for subcontractors and their insurance. Subcontractors are to provide Certificates of Insurance to the COUNTY evidencing coverage and terms in accordance with the CONTRACTOR'S requirements.

J. Failure to obtain and maintain such insurance as set out above will be considered a breach of contract and may result in termination of the contract for default.

K. Neither approval by the COUNTY of any insurance supplied by CONTRACTOR, nor a failure to disapprove that insurance, will relieve CONTRACTOR of full responsibility of liability, damages, and accidents as set forth herein.

[The remainder of this page is intentionally left blank.]

ATTACHMENT 1 – SUBMITTAL FORM

22-730

The undersigned hereby declares that: Municipal Equipment Company, LLC has examined and accepts the specifications, terms, and conditions presented in this Solicitation, satisfies all legal requirements to do business with the County, and to furnish **FIRE EQUIPMENT, SUPPLIES, AND SERVICES** for which Submittals were advertised to be received no later than 3:00 P.M. Eastern time on the date stated in the solicitation or as noted in an addenda. Furthermore, the undersigned is duly authorized to execute this document and any contracts or other transactions required by award of this Solicitation.

1.0 TERM OF CONTRACT

The Contract will be awarded for an initial one (1) year term with the option for two (2) subsequent two (2) year renewals. Renewals are contingent upon mutual written agreement.

The Contract will commence upon the first day of the next calendar month after Board approval. The Contract remains in effect until completion of the expressed and implied warranty periods. The County reserves the right to negotiate for additional services/items similar in nature not known at time of solicitation.

2.0 PAYMENT

The Contractor shall email the County's using department (egminer@lakecountyfl.gov) an accurate invoice within 30 calendar days after delivery. Invoices should reference the purchase/task order, ship date, tracking number, and ship-to address, list price, percent discount, and unit cost. Failure to submit invoices in the prescribed manner will delay payment.

Payments will be tendered in accordance with the Florida Prompt Payment Act, Part VII, Chapter 218, Florida Statutes. The County will remit full payment on all undisputed invoices within 45 days from receipt by the appropriate County using department. The County will pay interest not to exceed 1% per month on all undisputed invoices not paid within 30 days after the due date.

All pricing will be FOB Destination unless otherwise specified in this solicitation document. Pricing submitted will remain valid for a ninety (90) day period.

Vendor accepts MasterCard for payment: YES

3.0 CERTIFICATION REGARDING LAKE COUNTY TERMS AND CONDITIONS:

I certify that I have reviewed the [General Terms and Conditions for Lake County Florida](#) and accept the Lake County General Terms and Conditions dated 5/6/21 as written including the Proprietary/Confidential Information section. YES

Failure to acknowledge may result in Submittal being deemed non-responsive.

4.0 CERTIFICATION REGARDING FELONY CONVICTION:

Has any officer, director, or an executive performing equivalent duties, of the bidding entity been convicted of a felony during the past ten (10) years? NO

5.0 CONFLICT OF INTEREST DISCLOSURE CERTIFICATION:

Except as listed below, no employee, officer, or agent of the firm has any conflicts of interest, real or apparent, due to ownership, other clients, contracts, or interests associated with this project; and, this Submittal is made without prior understanding, agreement, or connection with any

ATTACHMENT 1 – SUBMITTAL FORM

22-730

corporation, firm, or person submitting a proposal for the same services, and is in all respects fair and without collusion or fraud. N/A

6.0 CERTIFICATION REGARDING BACKGROUND CHECKS:

Under any County Contract that involves Contractor or subcontractor personnel working in proximity to minors, the Vendor hereby confirms that any personnel so employed will have successfully completed an initial, and subsequent annual, Certified Background Check, completed by the Contractor at no additional cost to the County. The County retains the right to request and review any associated records with or without cause, and to require replacement of any Contractor employee found in violation of this requirement. Contractor shall indemnify the County in full for any adverse act of any such personnel in this regard. Additional requirements may apply in this regard as included within any specific contract award. YES

7.0 DISADVANTAGED BUSINESS ENTERPRISE PROGRAM

The County does not establish specific goals for minority set-asides however, participation by minority and non-minority qualified firms is strongly encouraged. If the firm is a minority firm or has obtained certification by the State of Florida, Office of Supplier Diversity, (OSD) (CMBE), please indicate the appropriate classification(s) Choose an item. not applicable and enter OSD Certification Number Click or tap here to enter text. and enter effective date Click or tap to enter a date. to date Click or tap to enter a date.

8.0 FEDERAL FUNDING REQUIREMENT:

N/A

9.0 RECIPROCAL VENDOR PREFERENCE:

N/A

10.0 GENERAL VENDOR INFORMATION:

Firm Name: Municipal Equipment Company, LLC

Street Address: 408 Bif Ct

City: Orlando State and ZIP Code: FL 32809

Mailing Address (if different): same

Telephone: 800-228-8448 Fax: n/a

Federal Identification Number / TIN: 59-3624496

DUNS Number: 020992533

11.0 SUBMITTAL SIGNATURE:

I hereby certify the information indicated for this Submittal is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an authorized representative of this Vendor and/or empowered to execute this Submittal on behalf of the Vendor. I, individually and on behalf of the Vendor, acknowledge and agree to abide by all terms and conditions contained in this solicitation as well as any attachments, exhibits, or addenda.

Name of Legal Representative Submitting this Proposal: *Mathew Fenneman*

Date: 4/20/2022

Print Name: Mathew Fenneman

ATTACHMENT 1 – SUBMITTAL FORM

22-730

Title: President

Primary E-mail Address: matt@mecofire.com

Secondary E-mail Address: mfenneman@mecofire.com

The individual signing this Submittal affirms that the facts stated herein are true and that the response to this Solicitation has been submitted on behalf of the aforementioned Vendor.

[The remainder of this page is intentionally blank]

<i>Municipal Equipment Company, LLC</i>				
SAVE AND SUBMIT AS AN EXCEL FILE				
FIRM'S WEBSITE:		www.mecofire.com		
Warehouse Location(s):		408 Bif Ct Orlando, FL 32809		
Contact Information For Emergency/Disaster Services (24/7)				
		Name: Mathew Fenneman		
		Email: matt@mecofire.com		
		Emergency Phone: 800-228-8448		
List manufacturer brands supported.				
MANUFACTURER	Percent Off List	In Stock / Lead Time	Freight Included	WEBSITE
Akron Brass	40.00%	1-8 weeks	yes	www.akronbrass.com
Arctic Compressor	2.00%	2-4 weeks	yes	www.arcticcompressor.com
Armor Express	10.00%	2-4 weeks	yes	www.armorexpress.com
Bayco Products	10.00%	2-3 weeks	yes	www.baycoproducts.com
Blackington Badges	20.00%	4-6 weeks	yes	www.Blackington.com
Bullard	5.00%	1-8 weeks	yes	www.bullard.com
CMC	8.00%	1-8 weeks	yes	www.cmcpro.com
Cairns	20.00%	1-4 weeks	yes	www.msasafety.com
Chemguard	20.00%	2 weeks	yes	www.jci.com
Council Tool	1.00%	1-8 weeks	yes	www.counciltool.com
CW Nielsen	20.00%	2-6 weeks	yes	www.cwnielsenbadges.com
Dewalt	5.00%	2-4 weeks	yes	www.dewalt.com
Door Storm	1.00%	2-6 weeks	yes	www.doorstorm.com
Draeger Engineered solutions	0.00%		yes	
Draeger SCBA & Gas Detection	5.00%	2-6 weeks	yes	www.Draeger.com
Duo Safety	15.00%	26 weeks	no	www.duosafety.com
Edwards and Cromwell	2.00%	1-2 weeks	yes	www.edwardsandcromwell.com
Elkhart Brass	25.00%	1-8 weeks	yes	www.elkhartbrass.com
Ergodyne	3.00%	1-3 weeks	yes	www.ergodyne.com
Enforcer One	15.00%	2-10 weeks	yes	www.enforcerone.com
Evac Systems	10.00%	2-3 weeks	yes	www.evacsytams.com
Fecheimer	5.00%	1-3 weeks	yes	www.fecheimer.com
Federal Signal	25.00%	1-4 weeks	yes	www.fedsig.com
Firehooks	2.00%	1-4 weeks	yes	www.firehooksunlimited.net

ATTACHMENT 2B - PRICING SHEET

22-730

FIRE EQUIPMENT, SUPPLIES,
AND SERVICES

MANUFACTURER	Percent Off List	In Stock / Lead Time	Freight Included	WEBSITE
Fire Innovations	5.00%	2-3 weeks	yes	www.fireinnovations.com
Fire Research	20.00%	1-4 weeks	yes	www.fireresearch.com
Fire Service Plus	20.00%	2-3 days	yes	www.fireade.com
Firebull	15.00%	2-3 days	yes	www.enforcerone.com
Firequip	35.00%	4-8 weeks	yes	www.snaptite.com
Flamefighter	10.00%	1-3 weeks	yes	www.flamefighter.com
Flir Sytems	10.00%	2-6 weeks	yes	www.flir.com
Florida PPE Services	2.00%		yes	www.floridappeservices.com
Foldatank	10.00%	1-4 weeks	yes	www.fol-da-tank.com
Gemtor	10.00%	1-3 weeks	yes	www.gemtor.com
Genesis Rescue Systems	0.00%	3-4 weeks	yes	www.genesisrescue.com/
GH Armor	10.00%	2-4 weeks	yes	www.gharmor.com
Glassmaster	5.00%	1 week	yes	www.glassmaster.com
Groves, Inc.	1.00%	2-4 weeks	yes	www.groves.com
Haix North America	20.00%	1-2 weeks	yes	www.haix.com
Hannay Reels	1.00%	1-4 weeks	yes	www.hannay.com
Harrington	20.00%	1-3 weeks	yes	www.Harrinc.com
Hebert Hose Clamps	1.00%	1-3 weeks	yes	no web
Holmatro	1.00%	1-6 weeks	yes	www.holmatro.com
Homeland Six	5.00%	2-6 weeks	yes	www.homelandsix.com
Hot Shield USA	10.00%	2-3 weeks	yes	www.hotshield.com
Humat	1.00%	2-3 weeks	yes	www.humat.com
Husky Portable Containment	1.00%	2-4 weeks	yes	www.huskyportable.com
Identifire	5.00%	1-2 weeks	yes	www.identifiresafety.com
Janesville	35.00%	3-6 months	yes	www.lionprotects.com
Kappler	3.00%	2-4 weeks	yes	www.kappler.com
Kochek	15.00%	2-6 weeks	yes	www.kochek.com
Koehler Manufacturing	10.00%	2-4 weeks	yes	www.flashlight.com
Kussmaul	5.00%	1-2 weeks	yes	www.kussmaul.com
Lakeland Industries	15.00%	2-8 weeks	yes	www.lakeland.com
Leatherhead Tools	10.00%	2-4 weeks	yes	www.leatherheadtools.com
Lion Boots	20.00%	1-2 weeks	yes	www.lionprotects.com
Lion Gloves	20.00%	1-2 weeks	yes	www.lionprotects.com
Lion Helmets	20.00%	2-8 weeks	yes	www.lionprotects.com
Lion Hoods	20.00%	1-2 weeks	yes	www.lionprotects.com
Lion Training Products	2.00%	1-4 weeks	yes	www.lionprotects.com
Lion Uniforms	30.00%	1-4 weeks	yes	www.lionprotects.com
Lion Wildland Equipment	10.00%	30-60 days	yes	www.lionprotects.com
Mirion	0.00%	2 weeks	yes	www.mirion.com
Nupla	10.00%	2-4 weeks	yes	www.nuplatools.com
Pacific Helmets	15.00%	2-12 weeks	yes	www.pipusa.com
Paratech	1.00%	2-4 weeks	yes	www.paratech.com
Partner	5.00%	1-2 weeks	yes	www.teamequipment.com
Paul Conway Shields	2.00%	2-3weeks	yes	www.conwayshield.cmom

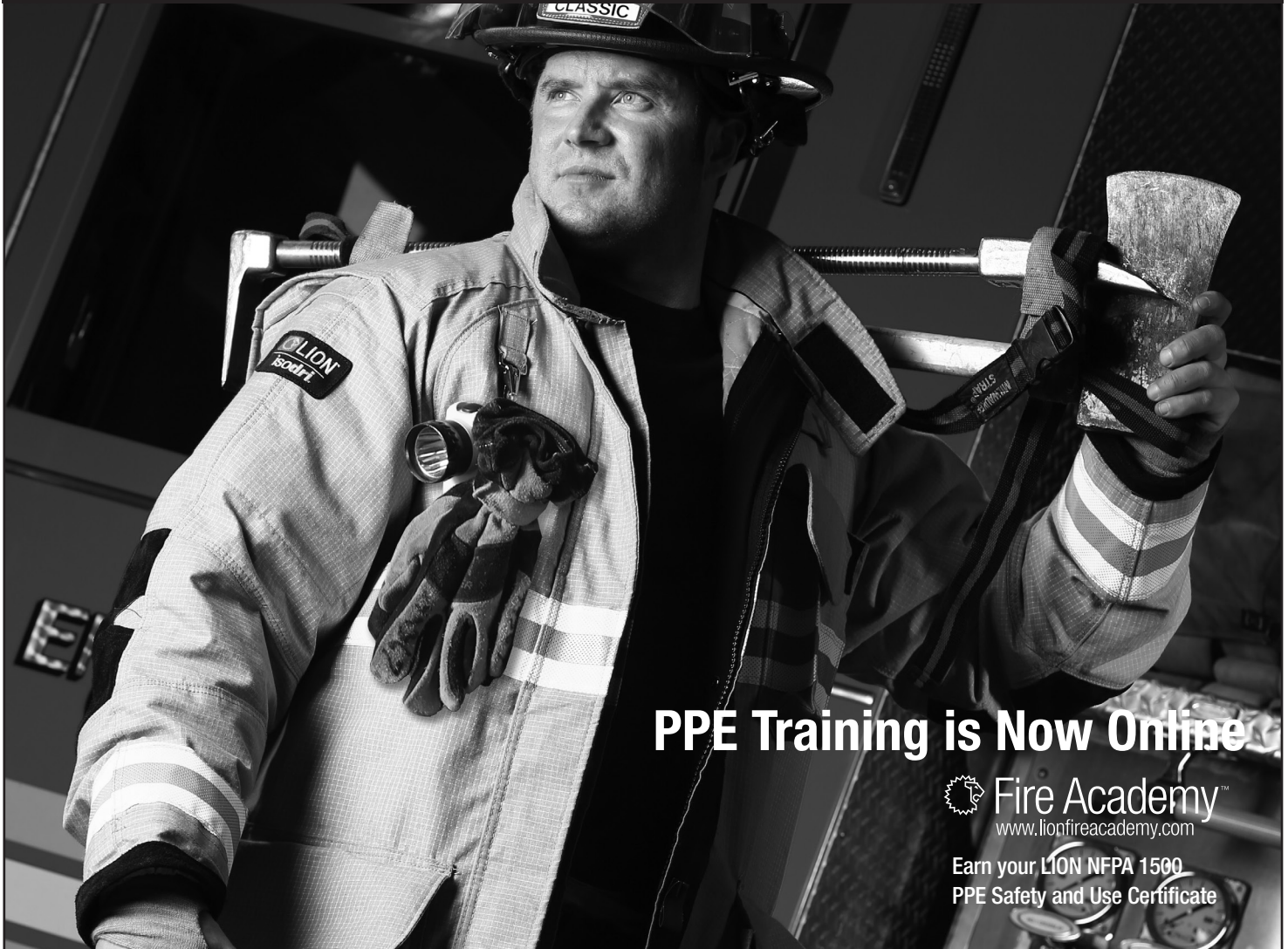
USER INSTRUCTION, SAFETY AND TRAINING GUIDE



NFPA 1971 Compliant Structural Firefighter Garment

7200 POE AVE.
DAYTON, OHIO 45414
www.LIONprotects.com

November 2021



PPE Training is Now Online



Earn your LION NFPA 1500
PPE Safety and Use Certificate

⚠ DANGER

You MUST read this Guide and all Garment Safety, Cleaning, and Information labels before wearing.

Burns are a function of time and temperature. First degree skin burns can occur when skin reaches a temperature of as low as 118° F (47.8° C).

Fire burns at temperatures up to 2000° F (1093.3° C) or higher.

This Garment provides limited protection against heat and flame in compliance with NFPA 1971. While wearing this Garment, you may be burned without heat sensation or warning in some circumstances, and without any sign of damage to the Garment.

Garment Safety Label

⚠ DANGER

You must read and understand these warnings and instructions. 6150
 Failure to follow these warnings and instructions will result in serious injury or death.


- Wear this garment ONLY FOR FIREFIGHTING ACTIVITIES.
- THIS GARMENT DOES NOT PROVIDE PROTECTION AGAINST CBRN TERRORISM AGENTS.
- Before wearing this garment, you must read and understand the User Instruction, Safety and Training Guide provided with this garment. The guide explains: 1. Critical safety information and protective clothing limitations. 2. Proper sizing/adjustment. 3. Procedures for putting on and removing protective clothing. 4. How to clean, decontaminate, inspect and store this garment. 5. Use consistent with NFPA 1500. 6. Limitations on useful life and retirement procedures.
- You should wear this garment only if you have been **properly trained in firefighting techniques** and have knowledge of the proper selection, fit, use, care and limitations of protective clothing and equipment.

Download the User Instruction, Safety and Training Guide at www.LIONppe.com
 Or contact LION@800-421-2926

- This garment provides **limited protection against heat and flames**. Minimize exposure to heat. You may be burned without warning or without receiving damage to garment. Avoid contact with hot objects. Skin burns occur when skin reaches a temperature of 118 F. Fires burn at temperatures up to 2000 F.
- Moisture and/or compression in your garment may reduce protection.
- Exertion in hot conditions **may result in heat exhaustion or poor judgment**. If you feel dizziness, dehydration, loss of focus, or shortness of breath, get to a safe area, remove this garment, and seek medical attention.
- **Do not use this garment if it is damaged or dirty, because dirty or damaged garments will NOT provide the intended protection and may expose you to carcinogenic products of combustion.**
- ALWAYS follow manufacturer's cleaning instructions.
- **This garment has limited useful life.** You must inspect regularly and retire when appropriate according to the User Instruction, Safety and Training Guide.

DO NOT REMOVE OR WRITE ON THIS LABEL! REV. 4.0 7/21


Garment Cleaning Label

 **Questions, write or call immediately:** 6484 S
 LION
 7200 Poe Ave., Suite 400 Dayton, OH 45414. 1-800-421-2926

CLEANING AND STORAGE INSTRUCTIONS

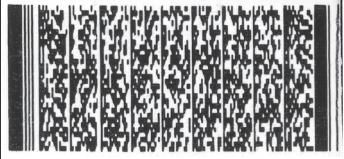
- User must clean, inspect, maintain, store and alter only in accordance with the User Instructions, Safety and Training Guide. Download at www.LIONppe.com
- Never use chlorine bleach. Chlorine bleach will significantly compromise the protection afforded by textile and film materials utilized in the construction of this garment.
- For coats only, remove DRD and launder DRD by hand washing with mild detergent and warm water.
- Fasten all hooks and D-rings and turn inside out or place in a laundry bag.
- Machine wash, warm water, using only liquid detergent and if needed, liquid non-chlorine bleach. Double rinse in cool water. Never use fabric softeners.
- Never dry clean.
- Dry by hanging in open area, out of direct or indirect sunlight and fluorescent light.
- Store out of direct or indirect sunlight and fluorescent light.

THIS STRUCTURAL FIRE FIGHTING PROTECTIVE GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, 2018 EDITION.
PROTECTIVE GARMENT FOR STRUCTURAL FIRE FIGHTING IN ACCORDANCE WITH NFPA 1971-2018. 58F6


 MH14967 When worn with the inner liner and outer shell assembled together, this garment meets the personal protective equipment criteria of US Dept. of Labor OSHA Bloodborne Pathogens Standard, Title 29 CFR, Part 1910, 1030, and CAL-OSHA Standard Title 8 Section 3406.

Rev. 3.0 7/18 **DO NOT REMOVE OR WRITE ON THIS LABEL**

Garment Information Label



**CROSSTECH MOISTURE BARRIER (PTFE)
 GLIDE 2L ARAFLO E-89 (K) THERM.LINER
 NOMEX E-89 QUILT
 REQ:401971
 MFG DATE:08/02/2018
 CUT:104246AA006
 MODEL:CVFM
 LINER:C2K7CVFM
 SIZE:4632R**

 0000652642

TAG:

Garment Liner Attachment Safety Label

⚠ WARNING

IsoDri® Moisture Management System U.S. Patent Nos. 5539928, 5819316, 5996122

FOR COMPLIANCE WITH THE STRUCTURAL FIRE FIGHTING GARMENT REQUIREMENTS OF NFPA 1971, THE FOLLOWING PROTECTIVE ITEMS MUST BE WORN IN CONJUNCTION WITH THIS GARMENT: OUTER SHELL 6.0 OZ MINIMUM WEIGHT

This INNER LINER alone does not provide protection against heat, flame, chemical or biological hazards. NEVER wear this INNER LINER without the SAME SIZE AND MODEL OUTER SHELL, as identified on labels located on each detachable component.

To reduce the risk of injury or death, you must assemble and wear together ALL of the following items:
 1. protective coat and pant with outer shell, attached inner liner and DRD installed in coat 2. gloves 3. boots
 4. helmet with eye protection 5. protective hood 6. SCBA 7. PASS device


ALWAYS make sure that all ensemble layers have the proper overlap and that all items fit with adequate looseness. Tight fit lowers insulation protection and restricts mobility.

I MADE IN THE U.S.A. **FI# 6152**
DO NOT REMOVE OR WRITE ON THIS LABEL! REV. 3.0 7/18


Drag Rescue Device (DRD) Label

⚠ WARNING

YOU MUST READ AND UNDERSTAND, SAFETY, AND TRAINING GUIDE BEFORE INSTALLATION AND USE.
 This drag rescue device is designed for the immediate evacuation of an unconscious fire fighter from a hostile environment. Do not use this drag rescue device for lifting or lowering on a lifeline. When properly installed in the protective coat, all performance requirements of NFPA 1971, 2018 ed are met. Do not write on or remove this label.

 MH14967 **CHEST SIZE:** **SERIAL NO:**

Questions, write or call immediately:
 Lion
 7200 Poe Ave., Suite 400 Dayton, OH 45414. 1-800-421-2926

 **6486 Rev. 3.0 7/18**

**Copies of labels used only in
 NFPA 1971 Compliant Structural
 Firefighter Garments**

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1. INTRODUCTION

Your NFPA 1971 Compliant Structural Firefighter Garment (referred to throughout this Guide as the “NFPA 1971 Compliant Garment” or “Garment”) is designed to provide limited protection in structural firefighting operations. It and its components are manufactured and certified under the performance requirements of the NFPA 1971 Standard.

This User Instruction, Safety and Training Guide gives important instructions regarding the use, inspection, care, maintenance, storage and retirement of your Garment. Immediately upon receipt of your Garment, you should carefully read and save this Guide for future reference.

Firefighting is an extremely dangerous profession. The circumstances of each hazardous situation are unique and often impossible to predict. This Guide is a training tool to help you understand your NFPA 1971 Compliant Structural Firefighter Garment and how to use it in the safest possible manner during dangerous firefighting operations. Please take the time to read it.

For your personal safety be alert for important safety messages in this Guide:**⚠ DANGER**

DANGER Indicates immediate hazards that will result in serious personal injury or death if not avoided, or if instructions, including recommended precautions, are not followed. The signal word “**DANGER**” is highlighted in red, both in this Guide and on labels affixed to your Garment, to indicate the extreme hazard of the situation.

⚠ WARNING

WARNING Indicates potentially hazardous situations that could result in serious personal injury or death if not avoided, or if instructions, including recommended precautions, are not followed. The signal word “**WARNING**” is highlighted in orange on applicable labels, and in black in this Guide.

⚠ CAUTION

CAUTION Indicates potentially hazardous situations or unsafe practices that could result in minor or moderate personal injury or product or property damage if instructions, including recommended precautions, are not followed. The signal word “**CAUTION**” is highlighted in gray in this Guide.

2. DEFINITIONS

AFFF – Aqueous Film-Forming Foam agents. A foaming agent capable of forming water-solution films on the surface of flammable hydrocarbon liquids.

ASTM – Acronym for American Society of Testing and Materials

Aramid Fibers – Specially manufactured polymer fibers in which the fiber-forming material consists of linked, long chain-like structures of large molecules. Aramid fibers exhibit higher resistance to flammability, higher strength, and higher elasticity than ordinary synthetic or natural fibers. Fabrics made from aramid fibers maintain their integrity at high temperatures and are used in protective clothing and other industrial applications.

Authority Having Jurisdiction – The organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, an installation or a procedure.

Body Substance Isolation – A concept practiced by emergency response personnel whereby blood and ALL other body fluids are considered a risk for transmission of bloodborne diseases.

Biological Agent – Biological materials that could be capable of causing disease or long-term damage to the human body.

Biological Terrorism Agents – Liquid or particulate agents that can consist of a biologically derived toxin or pathogen to inflict lethal or incapacitating casualties.

Bloodborne Pathogen – Pathogenic microorganisms that are present in human blood and can cause disease in humans. These include, but are not limited to: Hepatitis B, Hepatitis C, HIV and Syphilis.

Body Fluids – Fluids produced by the body including, but not limited to, blood, semen, mucous, feces, urine, vaginal secretions, breast milk, amniotic fluid, cerebrospinal fluid, synovial fluid, and pericardial fluid.

Body Fluids-Borne Pathogen – An infectious bacterium or virus carried in human, animal, or clinical body fluids, organs or tissue.

CBRN – An abbreviation for chemicals, biological agents and radiological particulates hazards.

Chemical Terrorism Agents – Liquid, solid, gaseous and vapor chemical warfare agents and toxic industrial chemicals used to inflict lethal or incapacitating casualties, generally on a civilian population, as a result of a terrorist attack.

Component – Any material, part or subassembly used in the construction of the NFPA 1971 Compliant Garment or element of the NFPA 1971 Compliant Garment.

Composite – The layer or combination of layers of the protective ensemble, or any elements of the protective ensemble, providing the required limited protection.

DRD (Drag Rescue Device) – an integrated rescue system on the coat or coverall upper torso that, when deployed, facilitates evacuation of a downed firefighter via a dragging motion.

Emergency Medical Operations – Delivery of emergency patient care and transportation prior to arrival at a hospital or other health care facility.

Entry Firefighting – Extraordinarily specialized firefighting operations that can include the activities of rescue, fire suppression and property conservation at incidents involving fires producing extreme levels of radiant, conductive and convective heat.

Exposure Incident – Specific contact of the following with blood or O.P.I.M.: 1) eye; 2) mouth or other mucous membranes; 3) non intact skin; or 4) parenteral contact.

Facecloth – Lining fabric that is used to cover inner surfaces.

Flame Resistance – The property of a material whereby the application of a flaming or non-flaming source of ignition and the subsequent removal of the ignition source results in the termination of combustion. Flame resistance can be an inherent property of the material or it can be imparted by specific treatment.

Flame Retardant – A chemical compound that can be incorporated into materials or a textile fiber during manufacture or treatment to reduce its flammability.

Flash Fire – A fire that rapidly spreads through a diffuse fuel, such as a dust, gas, or the vapors of an ignitable liquid, without the production of damaging pressure.

Fluorescence – The process by which radiant flux of certain wavelengths is absorbed and reradiated, nonthermally in other, usually longer, wavelengths.

Fluorescent Trim – Trim that absorbs and re-radiates light of certain wavelengths, making a surface highly visible to the human eye in order to provide daytime visibility.

Garment – (Also referred to as NFPA 1971 Compliant Garment.) The term Garment used throughout this Guide refers ONLY to NFPA 1971 Compliant Structural Firefighter Garments, which include the coats, trousers or coveralls. Garments are **NOT** Entry or Proximity protective clothing.

Guide – Means this User Instruction, Safety and Training Guide.

Heat Flux – The thermal intensity indicated by the amount of power per unit area. The heat flow rate through a surface of unit area perpendicular to the direction of heat flow.

ISP (Independent Service Provider) – An independent third party utilized by an organization (fire department) to perform any one or any combination of advanced inspection, advanced cleaning, or repair services.

Inner Liner – The liner portion of the NFPA 1971 Compliant Garment consisting of the thermal liner layer and the moisture barrier layer sewn together. The Inner Liner must ALWAYS be attached to the Outer Shell whenever the Garment is in service.

Interface Area – An area of the body where the protective garments, helmets, gloves, footwear, or SCBA facepiece meet. i.e., The protective coat--helmet--SCBA facepiece area, the protective coat--protective trouser area, the protective coat--protective glove area, the protective trouser--protective footwear area.

Lumbar Support – Device installed in waist of some trouser models that provides mechanical support for the back by generating inter-abdominal pressure without increasing abdominal muscle activity, reminding the wearer to exercise caution when lifting. Lumbar support is an option available in some trouser models.

Moisture Barrier – The portion of the Garment composite designed to prevent the transfer of liquids.

NFPA – Acronym for National Fire Protection Association. A private sector, volunteer-based standard-making organization in the United States that develops guidelines related to fire protection and prevention.

NFPA 1971 Compliant Structural Firefighter Garment – (Also referred to in this Guide as NFPA 1971 Compliant Garment and Garment). Means a Garment certified by a private, third party certification organization (for example, Underwriters' Laboratories) to meet at the time of manufacture the design and performance requirements of the NFPA 1971 Standards.

OPIM – Acronym for Other Potentially Infectious Materials. Includes semen, vaginal secretions, cerebrospinal fluid, synovial fluid, pleural fluid, pericardial fluid, amniotic fluid, and peritoneal fluid.

OSHA – Acronym for Occupational Safety and Health Administration. A government-based standard-making body that develops public health and safety standards for the workplace.

Outer Shell – The outermost layer of the composite with the exception of trim, hardware, reinforcing material and wristlet material. Also referred to as "shell".

Parenteral – Piercing through the skin barrier, such as a needlestick injury, human bite or a cut or scrape.

PASS Device – Acronym for Personal Alert Safety Systems. A device that emits an audible signal to summon aid in the event the firefighter or emergency responder becomes disabled.

PKP or Purple-K – a common name for a dry chemical extinguishing agent based on potassium bicarbonate with a purple dye added.

Protective Ensemble (Structural) – Multiple elements of Garments and other equipment designed in accordance with the NFPA 1971 Standards to provide a limited degree of protection for firefighters from adverse exposures to the inherent risks of structural firefighting operations and certain other emergency operations. The elements of the protective ensemble are coats, trousers, coveralls, helmets, gloves, footwear, and interface components.

Protective Element – The parts or items that comprise the protective ensemble. The protective ensemble elements are: coats, trousers, coveralls, helmets, gloves, footwear and interface components.

Proximity Firefighting – Specialized firefighting operations that can include the activities of rescue, fire suppression, and property conservation at incidents involving fires producing very high levels of radiant heat, as well as conductive and convective heat such as aircraft fires, bulk flammable gas fires, and bulk flammable liquid fires. Specialized thermal protection from exposure to high levels of radiant heat, as well as thermal protection from conductive and convective heat, is necessary for persons involved in such operations. Your Structural firefighting Garments are NEVER to be used in proximity firefighting and do not provide the required level of protection. Proximity firefighting operations might be combined with structural firefighting operations. Proximity operations are performed close to the actual fire where the high levels of radiant heat as well as the convective and conductive and radiant heat would overcome the thermal protection provided by structural firefighting ensembles and the proximity firefighting protective ensembles provide enhanced protection

from these thermal exposures. After the fire and heat have been controlled at a proximity firefighting incident, entry into structure or enclosures by firefighters protected by proximity firefighting ensembles could be made where the incident requires additional operations for control of the incident. The Authority Having Jurisdiction must conduct a risk assessment to determine the proper protective garments for incidents where both types of firefighting operations occur, or for proximity firefighters who may be required to provide support for structural firefighting operations.

Reinforcement – The addition of extra material for enhanced protection in areas prone to compression or abrasive wear such as knees, elbows and shoulders.

Retroreflection/Retroflective – The reflection of light in which the reflected rays are preferentially returned in the direction close to the opposite of the direction of the incident rays, with this property being maintained over wide variations of the direction of the incident rays.

Retroflective Markings – A material that reflects and returns a relatively high proportion of light in a direction close to the direction from which it came.

RPP (Radiant Protective Performance) – A test to determine the ability of an outer shell to withstand a measured amount of radiant heat.

SAFER – Acronym for Southern Area Fire Equipment Research. An established body of fire equipment users with expertise in the research and evaluation of firefighting personal protective equipment.

SCBA – Acronym for Self-Contained Breathing Apparatus.

SDS – Acronym for Safety Data Sheets.

Sewn Seam – A series of stitches joining two or more separate pieces of material(s) of planar structure, such as textile fabrics.

Spunlace – A nonwoven fabric formed by entangling the fibers about each other in a repeating pattern.

Structural Firefighting – The activities of rescue, fire suppression, and property conservation in buildings, enclosed structures, vehicles, marine vessels, or like properties that are involved in a fire or emergency situation.

Thermal Barrier – The portion of the Garment composite that is designed to provide thermal protection.

TPP – Acronym for Thermal Protective Performance. A test in the NFPA 1971 Standards to determine the ability of a Garment composite to protect against a measured amount of thermal and radiant heat.

Trim – Retroflective and fluorescent materials attached to the outermost surface of the protective ensemble for visibility enhancement. Retroflective materials enhance nighttime visibility, and fluorescent materials enhance daytime visibility. "Trim" is also known as "visibility markings".

Useful Life – The period of time that NFPA 1971 Compliant Structural Firefighter Garments, which have been properly cared for, can be expected to provide reasonable limited protection. Useful life of Garments can be as little as 3 to 5 years with heavy wear and tear or improper maintenance and/or storage. Useful life can be as long as 7 to 10 years if Garments have been subject to relatively lower levels of wear and tear and have been consistently maintained in a regular cleaning and maintenance program and stored properly.

In compliance with NFPA 1851, Garments or Garment elements must be retired no more than 10 years from the date of manufacture.

UV (Light or Radiation) – Acronym for Ultraviolet Light. A type of radiated electromagnetic energy commonly found in the sun's rays.

Universal Precautions – Under universal precautions, blood and certain body fluids of all patients are considered potentially infectious for human immunodeficiency virus (HIV), hepatitis B virus (HBV), and other bloodborne pathogens.

Verified ISP – An Independent Service Provider that has been verified by a certification organization (such as UL or ITS) to perform moisture barrier repairs and major repairs.

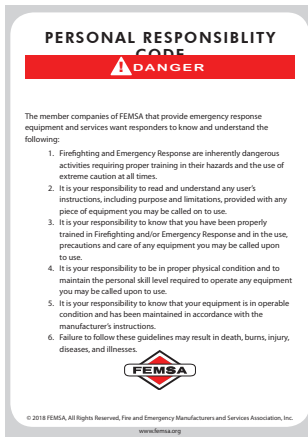


FIG. 1
Personal Responsibility Code
 Also shown on back cover of
 this Guide.

3. SAFETY CHECKLIST

Do not use this NFPA 1971 Compliant Structural Firefighter Garment until you have checked "YES" to the following:

1. Have you completed formal training in structural firefighting compliant with the approved standard recognized by the Authority Having Jurisdiction, and on the proper use of structural firefighting equipment and NFPA 1971 Compliant Structural Firefighter Garments? Yes No
2. Have you read and understood all the instructions and warnings throughout this Guide as well as all the safety, cleaning and information labels on the Garment? Yes No
3. Will you regularly inspect your Garment inside and out for any tears, holes, thin spots, worn areas, color change, dirt, contaminants, leaks, embrittlement, or any other conditions discussed in Section 6 of this Guide? Yes No
4. Have you studied the limitations of your Garment as described throughout this Guide? Yes No
5. Have you checked to make sure that your Garment fits you properly in accordance with Section 8 of this Guide? Yes No
6. Have you, your safety officer, or another appropriate person made plans to ensure that your Garment is used, inspected, maintained, stored, and retired according to instructions in this Guide? Yes No
7. Do you understand that when your skin reaches a temperature as low as 118° F (47.8° C) you will be burned, and that in some situations you may not feel a heat sensation or pain while wearing your Garment or receive damage to your Garment prior to being burned? Yes No
8. Have you read, do you understand, and do you agree to assume the risks and responsibilities listed in the Personal Responsibility Code? See (FIG. 1) and back cover of this Guide. Yes No

If you answered **NO** to any of the questions, **DO NOT WEAR THIS GARMENT** until you have read the appropriate sections of this Guide and have been properly trained by qualified instructors.

4. PURPOSE AND LIMITATIONS OF YOUR GARMENT

This Garment is designed to provide **LIMITED** protection under the requirements of the NFPA 1971 Standard to the legs, torso, and arms against hazards arising from **STRUCTURAL FIREFIGHTING OPERATIONS, AND NON FIRE RELATED RESCUE OPERATIONS, EMERGENCY MEDICAL OPERATIONS, AND VICTIM EXTRICATION, INCLUDING:**

- Heat and flame;
- Liquid splash of six common fireground chemicals, including AFFF, battery acid, hydraulic fluid, surrogate gasoline, swimming pool chlorine (65% chlorine solution) and automobile antifreeze (see Section 10);
- Penetration of blood and other body fluids;
- Cold weather and other environmental conditions;
- Physical hazards, including cuts and abrasion; and
- Water from hose streams and other sources.



Do not use for proximity or entry firefighting.



Do not use for direct contact with flames or molten metal.



Do not use for protection against hazardous radiological agents.



Do not use for protection against hazardous biological agents.



Do not use for protection against hazardous chemical agents.



May retain residual fireground contaminates, even after washing. Wear only when needed.

⚠ DANGER

DO NOT use this Garment for the following:

- **Proximity or Entry firefighting operations (see definitions)**
- **Activities requiring direct contact with flames or molten metal**
- **Hazardous Materials Emergency Operations**
- **Protection against all hazardous material, chemical, biological, radiological, or nuclear agents, or CBRN terrorism agents (see definitions)**
- **Wildland Firefighting**

⚠ DANGER

Firefighters who are exposed to a flashover, backdraft, or other flame and high heat environments are at **EXTREME** risk for extensive burn injuries and death even while wearing their NFPA 1971 Compliant Structural Firefighter Garments!

Emergency response personnel can encounter many common liquids during normal performance of their duties. The reference to limited protection from liquid splash from 6 common fireground chemicals should not be interpreted to mean that the Garments are suitable or are permitted to be used for protection to the wearer during any hazardous materials situation.

The moisture barrier in this Garment has not been evaluated for protection against all chemicals that can be encountered during firefighting operations. Garments that have been exposed to chemicals should be inspected in accordance with Chapter 6 of this Guide and NFPA 1851 to evaluate for any adverse effects.

⚠ WARNING

Controlled laboratory tests in the NFPA 1971 Standard “shall not be deemed as establishing performance levels for all situations to which personnel can be exposed”. You should always use extreme caution in any firefighting situation to avoid the risk of injuries. See NFPA 1971.

⚠ WARNING

Protective properties in a new NFPA 1971 Compliant Garment will diminish as the product is worn and ages. To reduce the risk of injuries, you **MUST** follow the recommendations in this Guide for inspection and retirement of your Garment to ensure that the Garment is not used past its Useful Life.

⚠ DANGER

Burns are a function of time and temperature. The higher the temperature of the heat source and the longer the exposure time, the greater the severity of burns.

FIRST DEGREE BURNS

begin when skin temperature reaches approximately **118° F (47.8° C)**.

SECOND DEGREE BURNS

occur when skin temperature reaches approximately **131° F (55° C)**.

THIRD DEGREE BURNS

occur when skin temperature reaches approximately **152° F (66.7° C)**.

You may have **very little or no warning time** from feeling heat or pain before skin begins to burn at 118° F (47.8° C). You need to be constantly aware of the buildup of heat in the surrounding environment and in your Garment and be ready to escape to a cool area where you can remove hot Garments quickly to help prevent or reduce the severity of burns.

5. GARMENT CONSTRUCTION, FEATURES, AND FUNCTION

In order to understand the limits of protection provided by your NFPA 1971 Compliant Garment, you should study its construction, features, and function.

5.1 OVERVIEW

Your NFPA 1971 Compliant Garment helps protect the firefighter against heat and flame in three ways. First, it provides limited insulation from temperature extremes by creating air spaces between the layers. Air is the best form of insulation because heat travels through it slower than it does through most solid materials or water. Second, the shell also protects you because it is made of special heat and flame resistant textiles which when exposed to fire, char instead of melt or combust, thereby reducing further injuries that can be caused by the ignition of the materials. Third, the thickness of the fabrics also creates insulation that contributes to the limited protection against heat and flame.

5.2 LAYERED STRUCTURE

Your NFPA 1971 Compliant Structural Firefighter Garment is made with three primary layers: an outer shell, a moisture barrier, and a thermal liner. Typically, the moisture barrier and thermal liner are sewn together to make up the inner liner. This inner liner is removable for cleaning, inspection, and decontamination. **Garments should NEVER be worn without the inner liner in place.**

5.3 OUTER SHELL

Your Garment's outer shell fabric is made from self-extinguishing fibers with limited resistance to the effects of heat, flame, and abrasion. In order for the fabric to self-extinguish, you must remove it from the source of ignition. The outer shell fabrics available from different fiber and textile manufacturers have varying durability characteristics and varying resistance to fading.

5.4 INNER LINER

Your Garment's inner liner consists of a moisture barrier and a thermal barrier that are typically sewn together as a unit. This inner liner fastens into the outer shell and is removable for cleaning, inspection, and decontamination. If your inner liner is the sewn-together type, it most likely has an inspection system (**FIG. 2A, FIG. 2B**) to allow easy inspection of the liner's inner surfaces. However, your Garment may have the optional Separable Liner System (**FIG. 2C**), which is fastened together by a combination of zippers, hook and loop and snaps to facilitate inspection, cleaning, repair and/or replacement.

Moisture Barrier: Your Garment's moisture barrier is constructed of moisture-resistant yet breathable film that is laminated to a substrate for stability. It protects you and your Garment's thermal liner from water, steam, moisture penetration, chemicals and bloodborne pathogens. It also allows the outward passage of moisture vapor so some of your body heat can escape. Your Garment may have the optional Vented Moisture Barrier (**FIG. 2D**) which includes a circumferential opening with 2" overlap at the torso mid-section.

Thermal Barrier: Your Garment's thermal barrier is constructed of layers of flame-resistant, thermally-insulative non-woven fabrics that are attached to a woven facecloth for stability and strength. It insulates you from the effects of extreme heat encountered during structural firefighting operations.

5.5 UNDERSTANDING YOUR GARMENT SPECIFICATIONS

There are many manufacturers of outer shell, thermal liner, moisture barrier and reinforcement fabrics. Each manufacturer offers fabrics of various weights, weaves, coatings, and construction. Your Fire Department has selected a LION firefighter Garment with a combination of fabric weaves, weights, finishes, and orientations that provide a balance of NFPA-compliant performance characteristics for thermal protection, heat stress reduction, and durability. The materials selected by your Fire Department may trade breathability for additional thermal protection and durability or vice versa, as compared to another Fire Department's selection. Each Fire Department should conduct a risk assessment to guide its selection of an appropriate fabric ensemble that represents its desired balance of thermal protection, breathability, and durability. The labels inside your Garment provide information about the fabrics your Fire Department selected. Regardless of the particular configuration of fabrics, you should understand that all LION Garments meet NFPA 1971 requirements, and all LION Garments provide the level of protection, breathability, and durability represented by the fire department's combination of fabrics and construction.



FIG. 2A: Coat Liner Inspection System (located along front facing or at collar)

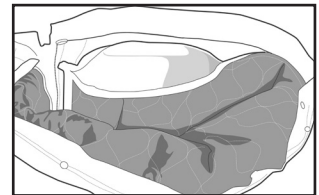


FIG. 2B: Pants Liner Inspection System (located along waistband)

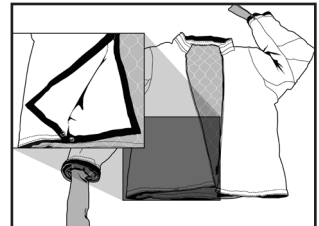


FIG. 2C: Optional Separable Liner System

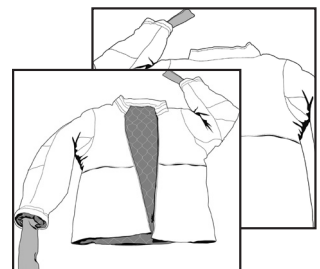


FIG. 2D: Optional Vented Moisture Barrier

5.6 DRAG RESCUE DEVICE (DRD)

⚠ WARNING

Do NOT use the DRD for lifting or lowering a person on a lifeline or emergency escape. Using the DRD for unintended purposes may result in bodily injury or death.

Your turnout coat or coverall includes an integrated Drag Rescue Device (DRD) to provide mechanical leverage for someone to drag you from a life-threatening environment in case you become incapacitated on the fireground. The design enables the rescuer to drag you in line with the axis of your skeletal frame in order to decrease the risk of further injury.

Training should include practice locating and securing the hand loop of the DRD with gloved hands and obscured vision.

PROPER USE OF THE DRD (FIG. 3)

- A. Locate hand loop access point, lift flap, and pull out the hand loop.
- B. Obtain proper grip by inserting a hand through the hand loop and grasping the webbing below the loop.
- C. Drag the downed firefighter across horizontal surfaces to safety.



FIG. 3
Drag Rescue Device (DRD): Proper deployment and use

5.7 OTHER IMPORTANT SAFETY FEATURES (FIG. 4)

Collar: ① Your coat's collar must be raised up and secured with the hook and loop closure (with the throat tab engaged if your Garment has a throat tab) in order to provide limited protection to the neck area from heat, flame, and other hazards.

Closure Systems: ② On the front of the coat and trousers, when properly fastened, reduce the amount of water that can enter the Garment and prevent the coat and trousers from coming open during structural firefighting activities.

Retroreflective and Fluorescent Trim: ③ Improves visibility in low-light conditions and daytime. Exclusive to LION, perforated with holes to increase moisture vapor permeability and reduce the risk of stored energy burns.

⚠ WARNING

You must wear your NFPA 1971 Compliant Garment at all times during any emergency operation near roads or highways. The retroreflective and fluorescent trim increases the chance of being seen by motorists and decreases the probability of injury.

Reinforcements: ④ Provide important extra limited protection against heat and flame, cuts, and abrasion.

Drag Rescue Device (DRD): ⑤ Provides mechanical leverage for dragging a downed and incapacitated structural firefighter from a life-threatening environment.

Liner Inspection System: ⑥ Your Garment's inner liner has an opening through which you can visually inspect the integrity of the thermal barrier or the moisture barrier. On coat models, this system is located on the center front of the liner. However, on older models it is located along the collar interface. On pants, the system is located on the center right front of the liner near the waist.

Labels: ⑦ Important safety, cleaning, and information labels are located inside your coat (total of 6) and pants (total of 5):

Garment Safety Label located on the liner, provides critical safety information and directs you to read and understand this Guide.

Garment Liner Attachment Safety Label located on the liner, warns you about the need to always wear your Garment with the outer shell and inner liner attached.

Garment Cleaning/NFPA Certification Label located on the liner, explains washing, drying and storage instructions and bears the language and markings required for NFPA certification.

Garment Information Labels located on the shell inside the closure and *also* on the liner, list the Garment model, size, fabric content, date of manufacture, barcode, and serial number. Each label's barcode and serial number help you track the Garment's wash and repair history and match its shell to its liner after cleaning. The serial numbers on the shell's label and on the liner's label are identical except for the last digit: "1" for shell; "2" for liner.

DRD Label is on the DRD strap inside your coat. It provides critical safety information on your coat's Drag Rescue Device.

Optional RedZone Particulate Protection Features: ⑧ Core Guard, Arm Guard, Leg Guard.

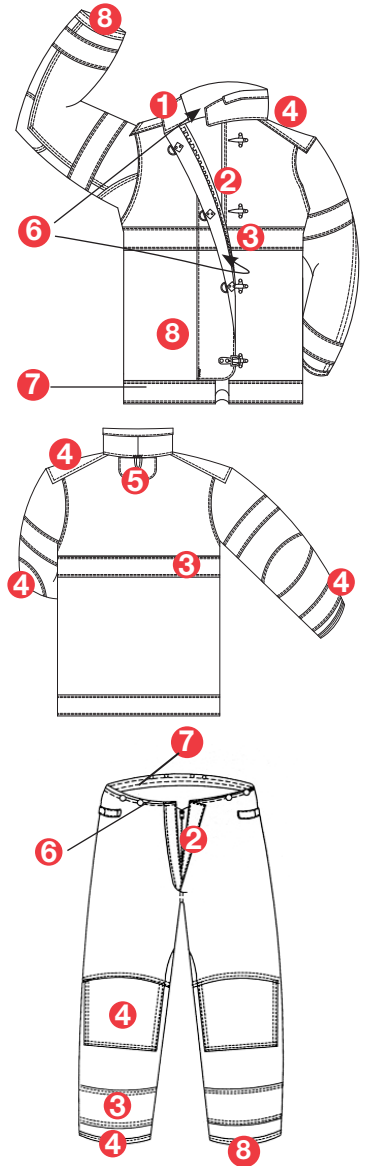


FIG. 4

Key Elements of NFPA 1971 Compliant Garments.

Samples of these labels are located on page 2 of this Guide.

6. INSPECTION

WARNING

Most performance properties of the Garment and its components cannot be tested by the user in the field.

DANGER

If during firefighting operations, you perceive that water is passing through your thermal liner and moisture barrier from the outside, remove the Garment from service. Have the Garment inspected by an expert who has been trained by LION, LION TotalCare® or a verified Independent Service Provider (ISP). Passage of outside water through the liner means that the moisture barrier is damaged or deteriorated and must be replaced.

Your Garment should be cleaned, inspected, and repaired in a frequency and manner consistent with your fire department's protocol, NFPA 1851, and NFPA 1971.

6.1 PREPARATION

Read all Safety, Cleaning, and Information Labels (See Section 5.7 of this Guide for location). If any of the labels are missing, return the Garment to the manufacturer immediately.

6.2 FREQUENCY

Routine Inspection:

Inspect your Garment including its outer shell, liner, DRD and other components at the following times:

- Upon receipt of your new Garment or replacement component;
- After each use or at least monthly (whichever is greater) during the useful life of the Garment;
- After exposure to heat, flames, chemicals, or firefighting agents (including AFFF foam and water);
- After exposure to body fluids (including blood); and
- After washing, repair or decontamination.

Advanced Inspection:

Your Garment should undergo a regular advanced inspection by an expert in the Fire Department who has been trained by LION, LION TotalCare® or a verified Independent Service Provider (ISP) at least annually, or whenever you have a question about whether a Garment is fit for use.

6.3 INSPECTION PROCESS AND CRITERIA

1. Preparation for Inspection

- A. Ensure that Garments are clean. If any have been contaminated by hazardous materials or biological agents, make sure they have been decontaminated. This is important for your safety, and for assurance that potential problems are not masked by incidental residue.
- B. Place Garment on a clean surface in a brightly lighted area.
- C. Separate outer shell from inner liner. Remove DRD and suspenders.

Pay close attention to high abrasion areas such as the shoulders, back/waist area, knees, crotch, and seat. Where you see potential damage to the outer shell or thermal liner, examine the corresponding area on the moisture barrier.

2. Inspection of the DRD

- A. Thoroughly inspect the DRD for chemical deterioration (discoloration); cuts or holes; pulled stitches; unusual wear; broken or frayed fibers; and burn damage or discoloration from heat.

3. Inspection of the Inner Liner and Outer Shell Attachment System

- A. Locate the zipper and/or snap attachments.
- B. Check zipper (if present) for functionality and corrosion.
- C. Disconnect and examine snaps for corrosion and make sure their attachments to the garment are secure.
- D. Ensure that all snaps function well.

4. Inspection of the Outer Shell (Routine and Advanced Procedure)

- A. **Fabric:** Examine for dirt, discoloration, thin spots, holes, tears, embrittlement, cracking, burns, abrasions, and worn spots.
 - a. Discoloration is a sign of overexposure to light or heat.
 - b. Embrittlement, cracking or burns are a sign that other layers may be worn out or damaged and must be thoroughly inspected.
 - c. Grasp any part of the fabric that may be damaged or flawed in both hands, and try to push your thumbs through the fabric. See **(FIG. 5)**. If the fabric punctures, you must repair the outer shell (if economically practical), replace it, or retire the entire Garment and dispose of it in accordance with Sections 15 and 16 of this Guide.
- B. **Closure Systems:** Examine for functionality and damage.
 - a. Hook and Loop – Engage and disengage hook and loop attachments to make sure they function well. Examine for worn, abraded, curled, or melted pieces that require replacement. Check stitching for loose thread that would require repair.
 - b. Zippers – Examine all zippers for functionality and corrosion that would require replacement. Check stitching for loose threads that would require repair.
 - c. Hardware – Examine all hardware (i.e., hooks and dees or snaps) for corrosion or other damage that would require replacement. Check that their attachment to the Garment is secure.
- C. **Retroreflective and Fluorescent Trim:** Inspect Garment for missing, burned, loose, melted, or torn trim that has lost its retroreflective or fluorescent properties.
 - a. Damaged trim must be replaced.
 - b. Loose trim that maintains its reflectivity and fluorescence must be re sewn to the Garment.
 - c. The retroreflective properties may be evaluated by performing a flashlight test: hold a bright flashlight at eye level, either next to the temple or on the bridge of the nose, and aim the light beam at the Garment trim. Stand about 40 feet (12 meters) away. Compare reflected light from the Garment trim to a sample of new trim. If the reflected light is noticeably less than that reflected by the sample, contact LION TotalCare® or a verified ISP to repair or replace.

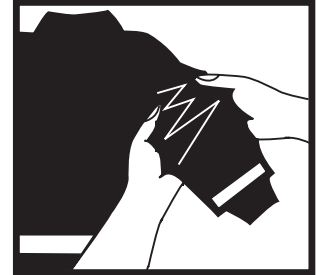


FIG. 5

Test fabric strength with thumbs

- D. Reinforcements, Pockets, Flashlight Loops, Hanger Loops, Letters, etc: Examine all reinforcements and components to make sure they are securely sewn to the Garment. Check hook and loop or snap fasteners on pocket flaps for functionality and damage.
- E. Accessories: Check all accessory items to ensure that they meet manufacturer's specifications and approval.
- F. Stitching and Seams: Examine all seams for loose threads, breaks, skipped stitches, or weaknesses.
- G. Labels: Verify that all Safety, Cleaning, and Information labels are on the Garment and are legible. See p. 2 and Section 5.7 of this Guide.

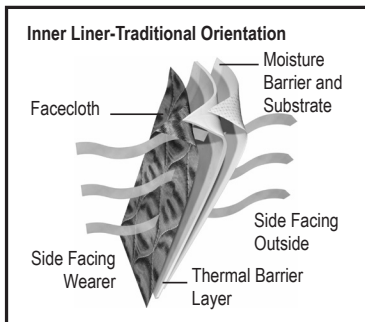


FIG. 6
Inner Liner Orientation.

5. Routine and Advanced Inspection of the Inner Liner (FIG. 6) for inner liner orientation.

- A. Fabrics: Facecloth, Thermal Liner Layer, Moisture Barrier Layer.

Visually and manually examine each component of your inner liner for these and other signs of possible damage, such as:

- Abrasion
- Broken stitches
- Burns
- Compression
- Cracking
- Dirt
- Discoloration
- Embrittlement
- Fraying
- Holes, cuts, or tears
- Migration of fibers
- Ridges
- Rough spots
- Thin spots
- Worn spots

Give special attention to the shoulder, elbow, and knee areas that are known compression areas.

Conditions you find on any surface of the inner liner could indicate leakage or loss of thermal protection. For example:

- a. Discoloration, a possible sign of overexposure to light or heat, could indicate that the fabric has become weak.
- b. Embrittlement, cracking or burns on the external, visible side of the inner liner are a sign that the inside thermal liner or moisture barrier layers may no longer resist moisture or thermal loads.

B. Leakage Evaluation (Advanced inspection only)

Only the most obvious damage on moisture barriers is visible. The following leakage evaluation procedure must be performed by a trained expert during an advanced inspection. The procedure should be performed at room temperature. The procedure utilizes an alcohol-water mixture of 1 part 70% isopropanol alcohol (rubbing alcohol) with 6 parts tap water.

Leakage evaluation should be performed on:

- broadest part of shoulders
- back waist area of coats
- knees
- crotch area
- seat area
- any area where potential damage has been detected

The dry inner liner should be placed over a bucket with the thermal liner facing down. Pour 8 oz. (about 1/4 liter) of the alcohol-water mixture into a cupped area of the moisture barrier. See **(FIG. 7)**.

Allow to stand 3 minutes. If the liquid passes through, the moisture barrier has been damaged, or has worn out and the inner liner should be repaired or replaced and retired.

After this procedure the liner must be washed and allowed to dry.

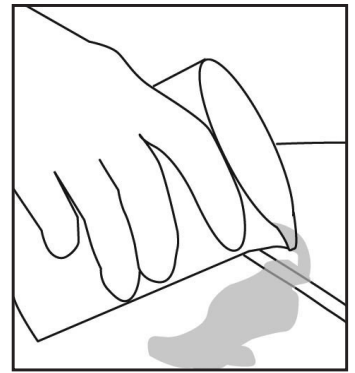


FIG. 7

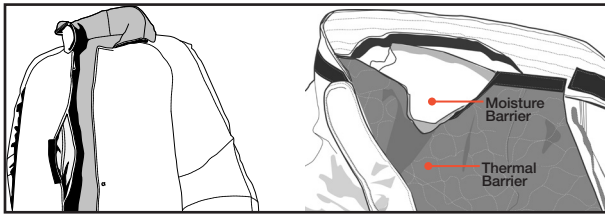


FIG. 8A: Coat Liner Inspection System

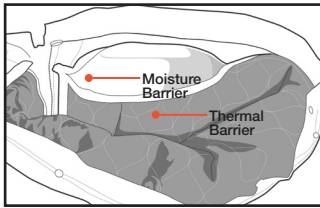


FIG. 8B: Pants Liner Inspection System

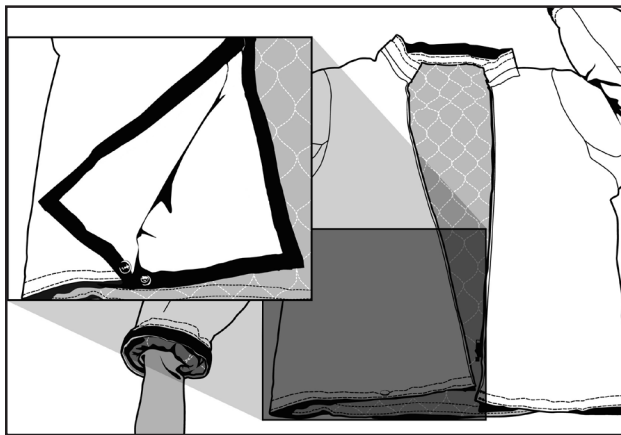


FIG. 8C
Optional Separable Liner System

The optional Separable Liner System allows you to separate the moisture barrier from the thermal liner. While you may not choose to open the liner for every routine inspection, the system allows you to more thoroughly inspect the liner components after thermal exposures. If you suspect any damage, ask a trained expert, a LION TotalCare® Center, or verified ISP to perform an advanced inspection of your Garment.

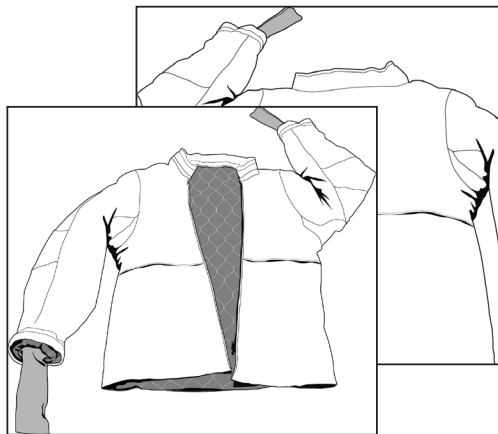


FIG. 8D: Optional Vented Moisture Barrier

If you see or feel any of signs of damage or detect anything unusual, do the following according to the type of liner that you have:

Liners with inspection systems:

- (Standard) Inspection system: **(FIG. 8A, FIG. 8B)** Reach through the opening and grasp the farthest point (such as the pants cuff, etc). Gently pull it through the opening to invert the liner.
- (Optional) Separable liner: **(FIG. 8C)** Detach hook and loop, unfasten the snaps, and separate the two layers.
- Vented moisture barrier: **(FIG. 8D)** While the chief purpose of the circumferential opening/overlap is to help dissipate excess body heat, you can examine the liner's innermost layers by looking through and/or gently inverting sections of the liner between the bartacks on the moisture barrier.

Examine (what had been) the innermost sides of the two layers for thin spots which indicate wearing away, compression, migration of fibers or other damage. If you see damage on the innermost layers, ask a trained expert to conduct a complete liner inspection.

Damage to the inside layers of the inner liner may not be visible to the user without separating the thermal liner and moisture barrier. The entire inner liner should be opened and inspected only by a trained expert, a LION TotalCare® Center, or verified ISP.

- C. Wristlets: Examine protective wristlets for shrinkage, elongation of thumb holes, loss of elasticity, and seam integrity.
- D. Stitching and Seams: Examine all seams for loose threads, breaks, skipped stitches, or weakness.
- E. Labels: Verify that all Safety, Cleaning, and Information labels are on the Garment and are legible. See p. 2 and Section 5.7 of this Guide.

6. Complete Liner Inspection

ONLY A TRAINED EXPERT in your department, a LION TotalCare® Center, or verified ISP should separate the thermal liner from the moisture barrier and perform the following:

Preparation:

If you have a sewn-together liner with an inspection opening, reach through the opening and grasp the farthest point (such as the pants cuff, etc.). Gently pull it through the opening to invert the liner. If you have a separable liner, detach hook and loop, unzip and separate the thermal liner from the moisture barrier.

- A. Thermal Liner Layer : Examine both sides for thin spots which indicate wearing away, damage of material, compression, or migration of fibers.
 - a. Inspect by running hands across external surface (facecloth) and internal surface (thermal barrier) feeling for thin areas or ridges that indicate breakdown, damage, compression, or migration of fibers. Special attention should be given to the shoulder, elbow, and knee areas that are known compression areas.
- B. Moisture Barrier Layer: Inspect both external surface and internal surface for any signs (holes, discoloration, rough spots, cracking, or tears) that could indicate damage or deterioration and leakage.
 - a. Perform a water barrier penetration test using a hydrostatic tester on any high abrasion area and any area with suspected damage.
- C. After all testing is completed, reattach the inner liner layers together, according to the type of liner:
 - a. Sewn-together liner: The liner should be inverted back through the inspection opening to its normal orientation.
 - b. Separable liner: Refasten the inner liner layers together.

6.4 RECORDKEEPING

LION TotalCare® Centers offer recordkeeping services. For manual records, record all inspections and your results on the Inspection, Cleaning, Repair, Retirement, and Disposal Record located in the back of this Guide. Maintain this form unless your organization has provided you with a comparable record keeping method for this purpose.

WARNING

If you see damage on the outer surface of the inner liner, it should be inspected by a trained expert, a LION TotalCare® Center, or verified ISP to determine whether the inner layers are damaged. **In many cases, damage to the inside layers of the inner liner will not be visible to the user without an expert opening the inner liner for inspection. See inner liner advanced inspection procedures, Section 6.3 Para. 5.**

7. DONNING & DOFFING YOUR GARMENT

PREPARATION: Before donning, check to make sure that the inner liner and the outer shell are secured together at the torso, neck, and wrist areas on the coat, and at the torso and ankle areas on the trousers. It is also recommended to don your protective hood prior to coat and trousers. Next, pull your protective hood over your head and pull it entirely down around your neck so that later you can pull it up and cover your head after you don your scba facemask.



FIG. 9A

⚠ WARNING

NEVER wear the outer shell without installing the correct inner liner; NEVER wear the inner liner without attaching the correct outer shell to it. Neither the outer shell nor the inner liner, when worn alone, provides the limited protection against structural firefighting hazards.

7.1 TROUSERS



FIG. 9B

Next, don your trousers. With the fly closure unfastened, hold open the trousers with the suspenders hanging to the side. After pulling the trousers to the waist, fasten the fly closure securely. See (FIG. 9A). Cinch take-up straps, if present, so the trousers are snug at your waist. Pull the suspenders over your shoulders and adjust them so that the crotch of the trousers is comfortably secure against your crotch. Trousers that hang down too low in the crotch will dangerously restrict your mobility and will wear out prematurely in the crotch seams or in the fabrics of the inner liner. When properly fitted, and correctly donned, the cuffs of your trousers should be no less than 2 inches (5 cm) and not more than 5 inches (12 cm) off the floor. Step into your protective boots, and if they are adjustable, zip them up or tie the laces.

7.2 COAT



FIG. 9C

After your trousers and boots are secured, pull the coat onto your body. See (FIG. 9B). Secure your hands through the knit wristlets and where provided, place your thumbs through the thumb holes. Pull your protective hood halfway over your head so that the bib section is under your coat and your face is exposed. Tighten seals, if present, at the wrists by pulling the draw straps tight and locking them. Engage all fasteners to secure front closure and storm flap all the way to the neck. See (FIG. 9C). Coat models will have varying combinations of hook and loop, hooks and dee rings, snaps, or zippers.

⚠ WARNING

Always have a partner make sure that the rear coat hem is not bunched up in the straps of the SCBA. Failure of the rear coat hem to drape loosely across the lower body could prevent the necessary overlap and result in exposure of the lower back area to heat and flame.

7.3 SECURING THE COMPLETE PROTECTIVE ENSEMBLE

- A. When you are ready to enter the hazard area, put on your SCBA and facepiece following the manufacturer's recommended procedures for fastening and use.
- B. Pull hood into place around your head and secure the edges of the hood opening over the SCBA face piece. Raise the collar up and secure the hook and loop fastener and throat strap to protect your neck.
- C. Place helmet on your head, over the hood, and use the chin strap to secure tightly to your head.
- D. Put on protective gloves and make sure that they securely overlap the wristlet extending from the sleeves.

7.4 FINAL INSPECTION BEFORE ENTERING HAZARD AREA

Last and most important, to ensure proper donning before entering a hazard area, **you must have a partner inspect your interface areas** for proper overlap, check your back to make sure that the rear hem is not dangerously caught in the SCBA straps, and that all closures are secured properly.

7.5 PRELIMINARY EXPOSURE REDUCTION AFTER COMPLETION OF FIREFIGHTING OPERATIONS.

Follow NFPA 1581 requirements to remove surface contamination from your garments prior to doffing.

7.6 DOFFING (REMOVING) YOUR GARMENT

- A. First, never remove your Garments until you are certain you are safely removed from the hazard area. Always wear your full protective ensemble during all phases of fire suppression, including overhaul activities.
- B. After a strenuous emergency operation is completed, and you are in a safe area, it is important to ventilate your body as quickly as possible in order to cool down.
- C. When you are ready to remove your Garments, you should first remove your helmet, your hood, then your SCBA face piece and air pack. Then open coat, remove gloves and remove your coat. Avoid pulling on wristlets, when doffing coat, to prevent stretching of the knit materials.
- D. Next, disengage fly closure on trousers and remove them. If you suspect the metal hook and dee ring on your fly closure is heated, use a glove to disengage the closure or ask other personnel for assistance. Then step out of boots.
- E. If your Garments are contaminated with hazardous chemicals, you should remove them, carefully avoiding any contact with contaminated parts. Hose the Garments down at the scene with a low-pressure setting. Be sure to place the Garments in plastic bags to allow safe handling by laundry personnel. Follow procedures in NFPA 1851 for isolating and bagging garments. A Garment exposed to body fluids can be washed and disinfected or sanitized to reduce the risk of exposure to bloodborne pathogens. See Washing and Decontamination Procedures in Section 11 of this Guide.

WARNING

Do not transport dirty garments in your vehicle.



FIG. 10

Emergency Doffing: Avoid compressing superheated gear and get assistance to remove it quickly.

⚠ WARNING

Firefighters who are taller than 5'8" (1.73 meters) **MUST** wear a coat that is 32" (81 cm) or **GREATER** from the back of the neck at the collar down the back to the bottom of the coat hem. Wearing a coat with improper overlap could result in serious injury. If you have questions about whether your Garments have the proper overlap, contact your nearest LION Dealer.

- F. During and after doffing, always look for signs of chemicals, body fluids, or other contamination, and for signs of wear or damage. See Washing and Decontamination Procedures in Section 11 of this Guide, and Inspection Procedures, Section 6 of this Guide.

7.7 EMERGENCY DOFFING (FIG. 10)

Be aware of signs of super-heated gear such as:

1. Dye burning off that may appear to be steam or off gassing.
2. Discoloration of any PPE element

⚠ DANGER

Avoid compressing superheated gear. Compressing superheated PPE may cause steam burns. If necessary, hold arms out from your side and have another person "roll" the coat off of your arms to avoid compressing the superheated coat against your arms.

8. PROPER OVERLAP AND FIT**⚠ WARNING**

Several different styles of NFPA 1971 Compliant Garments (coats and trousers) are available from LION and from various other manufacturers. You must make sure that your coat and trousers are compatible. Failure to match the proper styles of coats and pants could result in severe burns, cuts or abrasions to the lower back and torso area. If you are unsure, contact LION for more information.



FIG. 11A
NFPA Position A



FIG. 11B
NFPA Position B

8.1 OVERLAP

You must make sure that there is adequate overlap between the coat and the trousers, including the outer shell, the thermal liner and the moisture barrier, before using the Garments. You will need the assistance of a partner to check these key areas.

A Firefighter's Height Affects Overlap

Firefighters who are taller than 5'8" (1.73 meters) **MUST** wear a coat that is 32" (81 cm) or **GREATER** from the back of the neck at the collar down the back to the bottom of the coat hem. Special care should be given to long-bodied firefighters of any size to ensure that overlap requirements are met.

To check overlap, the following tests should be performed while wearing your complete protective ensemble, but without wearing an SCBA:

- A. NFPA 1500 Standard Position A (**FIG. 11A**). While standing, reach over head as high as possible with your hands together. The inner liner of the coat must overlap the top of the trousers by no less than 2 inches (5 cm).
- B. NFPA 1500 Standard Position B (**FIG. 11B**). While standing with your hands together and reaching overhead as far as possible, bend forward to a 90° angle, to the left or right, and backward. The inner liner of the coat must overlap the top of the trousers by no less than 2 inches (5 cm).

- C. The lower edges of your trousers must overlap the tops of your boots by 4-6 inches (10-15 cm). Gloves and wristlets must overlap each other by 3 inches (7.5 cm) and leave no gaps where wrists might be exposed.

8.2 CHECKING PROPER FIT

All Garments must have adequate looseness in the torso, arms, and legs to ensure that insulated air spaces are maintained. If the Garment bunches at the shoulders or binds in the shoulders, arms, thighs or crotch area, it is probably too small. Garments also should not be too loose, as this could hinder mobility or dexterity and place stress at the wrong places in the Garments. Upon receiving new or replacement Garments, make sure that there is at least a small amount of loose material around the arms and shoulder area. Then test the mobility by climbing stairs and crawling or duck walking.

8.3 CHECKING THE SIZE

Coat. The chest size shown for a coat should NEVER be smaller than the circumference of your own chest, measured under your arms. Coats are designed with an 8-10 inches (20-25 cm) overage for better fit over clothing. For example, a "size 44" coat will be labeled as "size 44" and measure 52-54 inches (132-137 cm) around the chest depending on the coat model. The end of the sleeve should reach beyond your wrist when arms are at rest.

Trousers. The waist size shown for a pair of trousers should NEVER be smaller than the circumference of your own waist, measured at your navel. The actual waist dimension of the trousers should be approximately 2-3 inches (5-8 cm) larger than the waist size ordered and labeled on the trousers. Make sure the lower edges of your trousers overlap the tops of your boots by 4-6 inches (10-15 cm).

If the garment does not seem to fit properly, you should check the size in the label to make sure it is your size as measured, and to make sure it is your Garment.

DANGER

Never wear a Garment that fits improperly. If you have a question, or there is a problem with the fit of the Garment, contact your safety officer for assistance. Wearing a Garment that does not fit properly could reduce protection and result in severe burns, cuts, or abrasions, or dangerously restrict your ability to avoid injuries in an emergency situation.

8.4 PROPER FIT OF THE DRAG RESCUE DEVICE (DRD)

Before using your DRD, check to make sure that it is installed properly and that it does not bind or constrict your arms or torso or limit your ability to have a full range of motion. If you feel tightness in any way, remove your coat, check for twisting of the webbing between the shell and the inner liner, adjust the DRD, and recheck the fit to assure that the problem has been resolved.

9. MARKING CONSIDERATIONS

For marking an individual's name, or other identifying mark, an indelible laundry marker may be used. LION recommends marking the Garment in the following manner:

- 9.1 First, check the Garment Information Label (it has a barcode on it) to determine whether adequate identifying information was already printed by the manufacturer. If not, the under side of the coat's storm flap or under the facings at the coat front are well-protected places for individual markings. The underside of the facing at the trousers fly is also recommended.
- 9.2 Do not apply letters, emblems, trim, and/or other types of identification that may penetrate the moisture barrier. Do not write on the outer shell, the moisture barrier, or the substrate textile of the moisture barrier layer. Indelible inks could damage the film or coating.

NEVER MARK ON THE SAFETY, CLEANING, OR INFORMATION LABELS ON YOUR GARMENT!

10. USING YOUR GARMENTS SAFELY: HOW TO MINIMIZE THE RISK OF INJURY

- 10.1 **PREPARATION** Before beginning any emergency operation where there is fire or a threat of fire, your Garments should be donned according to the procedures in Section 7 of this Guide, and checked by a partner for proper overlap at the interface areas as described in Section 8 of this Guide.

! DANGER

Always wear clean and thoroughly dry Garments used in any structural firefighting operation. Soiled or contaminated Garments may be combustible, causing serious burns to the wearer.

FIRE CHARACTERISTICS

- 10.2 Fires are inherently dangerous, unpredictable environments. **Temperatures can range upwards to more than 2000° F (1093° C) in a matter of seconds.** It is important to understand these conditions in order to maximize your protection and to understand the limited ability of your Garments to protect you from all hazards that may be present in a fire.

10.3 BURN HAZARDS: TYPES OF HEAT TRANSFER

There are three types of heat transfer in a fire that could cause burns: conduction, convection, and radiation. **Conduction** is the direct transfer of heat through contact with a hot object. **Convection** is the transfer of heat through a medium; for example, air. **Thermal radiation** is the transfer of heat in the form of light energy. Firefighters experience all three types of heat in a fire, and must understand their effects on NFPA 1971 Compliant Garments.

Always use your NFPA 1971 Compliant Garment properly and in a manner that is consistent with NFPA 1500, *Standard on Fire Department Occupational Safety, Health and Wellness Program* and **Title 29, Code of Federal Regulations, Part 1910.132, General Requirements of Subpart I, Personal Protective Equipment.**

Conduction: The danger of being burned by conductive heat while wearing NFPA 1971 Compliant Garments is frequently underestimated. This very real hazard is significantly increased if your Garments are wet or compressed. Water can provide a conductive bond between surfaces that might not otherwise touch, increasing the chances of heat conduction by displacing insulating air between and within the layers of the Garments. Water is a very poor insulator; it conducts heat with dangerous and totally unpredictable efficiency!

! DANGER

Moisture in Garment can reduce insulation and lead to scalding burns! Always make sure your Garment is dry before wearing it in any emergency situation. Dry your Garment between runs to reduce the risk of serious burn injuries. Inspect your Garment for holes and other damage, and always secure all the closures to prevent the penetration of moisture from the fire environment. Follow Inspection, Maintenance, Storage, Repair, Retirement, and Disposal Instructions in this Guide to make sure that the moisture barrier is not worn out or in an unsafe condition.

You can be burned by conductive heat when you contact heated surfaces or objects. The risk of serious conductive burns is even higher when you contact hot surfaces or objects **while compressing parts of your Garment and exposing yourself to too much heat.** Compression (**FIG. 12**) brings surfaces closer together and displaces air, resulting in the transfer of heat between outside surfaces and inner layers. For example, burns can occur on knees while crawling on hot surfaces and on shoulders where the SCBA straps have squeezed the surrounding fabric against the skin. Another common compression burn injury occurs, even without contacting a hot object or surface, when the firefighter's forearm and shoulders are exposed to the heat source while holding a hose.

Convection: Convective heat travels through the air, even if there is no immediate appearance of fire. Convective heat can elevate the temperature of your Garment to a point at which conductive heat burns can easily occur. Convective air can also travel into your garment's interior by entering into gaps at interface areas.

Thermal Radiation: Thermal Radiation is the transfer of heat in the form of light energy into a material, directly from flames or reflected from hot objects. Factors that affect the speed of radiant heat transfer include the temperature difference between two surfaces, their distance from each other, and the reflectivity of each surface. See (**FIG. 13**).

10.4 TACTICS FOR REDUCING THE RISK OF LEG BURNS

One program recently developed to reduce knee and lower leg burns is SWEEP, SWITCH, SQUAT and SHIFT:

Sweep: You should sweep the floor with the hoseline to move debris and reduce the surface temperature of the floor.

Switch: You should shift your weight from knee to knee as you advance the hoseline to reduce contact with heated surfaces.

Squat: By squatting, you are bringing the turnout gear off the floor so that it is not subject to compression burns.

! WARNING

Conductive burns can occur when your PPE is pulled tightly across your body, such as when you are kneeling or pulling hoseline, due to compression of the protective layers. It can also occur when your Garment is wet or damp because moisture can transfer heat much more quickly than air.



FIG. 12

Compression collapses the insulating pockets of air in the layers of PPE, thereby accelerating the rate of heat transfer to your body. This is why compression against hot surfaces can cause burns.



FIG. 13

Radiant heat from hot surfaces and flames can cause burns.

⚠ WARNING

Avoid walking directly over burning objects or heat sources which may penetrate up the hem of the pants and cause burns.

⚠ WARNING

You should always make sure that the overlap between your boots and trousers is secure while fighting a fire. Prevent your trouser hems from catching on the top of your boots, which could expose your lower legs to injury.

⚠ DANGER

- You may have very little or no warning time from feeling heat or pain before skin begins to burn at 118° F (47.8° C).
- You need to be constantly aware of the buildup of heat in the surrounding environment and in your Garments and be ready to escape to a cool area where you can remove hot Garments quickly to avoid burns.

Shift: Shifting your weight from side-to-side, if you are going to be on your knees, will reduce the time your knees will be in contact with the hot surface, thereby reducing the probability that you may get compression burns through your gear.

Another technique is to kneel on your hoseline. This will help your knees off of hot surfaces for prolonged periods.

Squatting for too long can also lead to compression burns. As you squat, your turnout pants may compress against some areas of your knee and leg. Heat may penetrate faster through these compressed areas than through uncompressed parts of your protective clothing, resulting in burn injury.

⚠ DANGER

Minimize compression of your Garment at all times. Contact with hot objects can severely reduce insulation and result in scalding and burning without heat sensation or warning in some circumstances. If you feel tingling, immediately move to a cooler location. Failure to react immediately could cause you to be burned.

⚠ DANGER

Conducted, Convective or Radiant heat can penetrate quickly into your Garment. Dangerous levels of heat may be present inside or outside a structure despite the lack of flames, and burns can occur at relatively low temperatures. If you feel thermal radiation burns developing, escape to a cool, safe place immediately and remove Garment. You may be burned without any warning signals or sustaining any damage to your Garment.

10.5 BURNS

Burns are a function of time and temperature. The higher the temperature of the heat source and the longer the exposure time, the greater the severity of burns.

FIRST DEGREE BURNS begin when the temperature of skin reaches approximately **118° F (47.8° C)**.

SECOND DEGREE BURNS occur when the skin reaches approximately **131° F (55° C)**.

THIRD DEGREE BURNS occur when skin temperature reaches approximately **152° F (66.7° C)**.

In terms of heat flux, unprotected skin will receive a second-degree burn after only a 30-second exposure at .45 watts per square centimeter.

Studies have shown that flame temperatures of low intensity wastebasket fires can reach almost 1300° F (704.4° C), with a heat flux in excess of over four watts per square centimeter, and with air temperatures ranging up to 750° F (398.9° C). Thus, even small fires can generate several times the level of heat to cause severe burns to firefighters who do not wear ALL their protective ensemble in a secure manner.

⚠ DANGER

Prolonged or repeated exposures to heat will increase Garment temperatures and can cause burns even after the firefighter is no longer exposed to high temperatures. Minimize exposure to heat by using water to cool the environment, or by escaping quickly after a short period of time. Failure to follow these instructions will result in burns beneath your Garment.

⚠ DANGER

The buildup of heat in NFPA 1971 Compliant Garments can lead to burns without any sign of damage to the Garment. Never wait for signs of Garment damage to warn of imminent burns. Always be aware of your surrounding environment and be ready to escape if you begin to feel tingling or burning sensations.

⚠ DANGER

Firefighters who are exposed to a flashover, backdraft, or other flame and high heat environments are at EXTREME risk for extensive burn injuries and death even while wearing their NFPA 1971 Compliant Structural Firefighter Garment!

⚠ WARNING

Do not confuse the component testing requirements that are part of NFPA Standards with the conditions in which firefighters work. For example, the requirement that certain components must not melt, drip, or separate when exposed to convective heat temperatures of 500° F (262° C) for 5 minutes is in no way intended to indicate that firefighters face that condition in their work, or could be expected to withstand that condition **EVEN WHILE WEARING NFPA 1971 Compliant GARMENTS CORRECTLY** without suffering serious injury or death.

10.6 HEAT STRESS: A SIGNIFICANT CAUSE OF FIREFIGHTER INJURIES

Physical work in a warm or hot environment causes a rise in the temperature inside the body. To protect the body against heat, the heart begins to beat faster so more blood can be moved to the skin surface. Blood vessels near the skin dilate so they can carry more blood. In this way, blood in the interior of the body can be brought out near the body's surface and cooled. Most importantly, the body produces sweat that evaporates off the skin to provide cooling. Those natural responses do not work very well for any or all of the following conditions: the ambient air temperature is at least 75° F (23.9° C) or higher, the garment's insulation blocks the transfer of heat away from the body, the garment blocks the evaporation of sweat, or the exertion of the muscles produces more heat than the system can remove. When the body temperature gets elevated too high, the results can be heat strain, heat exhaustion, or heat stroke.

⚠ WARNING

Overexertion in hot conditions while wearing NFPA 1971 Compliant Garments can lead to heat exhaustion, or heat stroke. Symptoms of heat exhaustion are a general feeling of weakness, dizziness, rapid pulse, low blood pressure while standing or sitting, and/or a headache. The skin may feel moist or clammy. If you feel symptoms, get to a cool place, remove your Garments, and drink fluids. Failure to seek attention could lead to coma or death.

⚠ WARNING

Symptoms of heat stroke are hot, dry skin with no sweating, very high body temperatures, weakness, dizziness, rapid breathing, nausea, unconsciousness, and sometimes mental confusion. If you feel any of the above symptoms at any time, get to a cool area immediately, remove your Garments, drink fluids and seek medical attention. Failure to seek attention could lead to coma or death. Immediate cooling is essential for survival in heat stroke cases.

10.7 HEART ATTACKS: A RESULT OF OVEREXERTION

During firefighting operations, the heart beats faster because of the need to move more blood to the working muscles. This blood carries more oxygen to the muscles so that they can handle the increased workload.

Another factor in increasing the rate of the heart is the presence of adrenaline, the “fight or flight” hormone, in the firefighter’s body during an emergency. The adrenaline present in your system causes the heart to pump even faster than during normal activity.

All of these stress factors could place too much strain on the heart, leading to a heart attack. The heart simply cannot handle the load placed on it.

⚠ WARNING

You must be physically fit to safely perform strenuous work under stressful conditions. Regular cardiovascular exercise, abstaining from cigarette smoking, proper training, a healthy diet, and avoidance of obesity, can help to reduce the risk of heart attack.

⚠ WARNING

Your Garment is not designed for use as a flotation device. Using your Garment for flotation may lead to serious injury or death.

10.8 LIQUID PENETRATION AND HAZARDOUS MATERIALS

LIMITED Protection against liquid penetration from 6 common chemicals

Your NFPA 1971 Compliant Garment’s moisture barrier is tested for resistance against penetration from liquid splash by only six common fireground chemicals after 1 hour exposures. These chemicals are 1. AFFF, 2. battery acid, 3. hydraulic fluid, 4. surrogate gasoline, 5. swimming pool chlorine (65% chlorine solution) and 6. automobile antifreeze. These liquids are tested because they are considered to be the most common chemicals encountered in structural firefighting operations. The purpose of the Garment is to provide limited protection against incidental contact with these materials encountered during routine operations.

⚠ WARNING

Over time, as the garment is worn and ages, the moisture barrier’s protection against penetration of the 6 common fireground chemicals will become more limited. See Useful Life section of this Guide, and NFPA 1971.

No Protection Against Hazardous Materials Exposure

In addition, firefighters face potential exposure to an almost unlimited number of other potentially hazardous chemicals in their operations. **Your NFPA 1971 Compliant Garment is NOT designed to protect against exposures to hazardous material operations. You MUST use appropriate protective equipment in situations involving CBRN, liquid or vapor hazardous materials.**

⚠ WARNING

Exposure to smoke particulates produced by combustion may affect cardiovascular health and may increase your risk of cancer. You must secure all interfaces properly to minimize entry of hazardous fireground contaminants. Even small fires produce extremely large amounts of these hazardous products of combustion and firefighters must take care to minimize direct skin contact with products of combustion that are known to penetrate skin, such as Polycyclic Aromatic Hydrocarbons (PAHs) denoted by asterisks(*). **See Products of Combustion table below.**

Products of Combustion**

Substances	
Acetaldehyde	Isoprene
Arsenic	Lead compounds, inorganic
Asbestos	Lead compounds, organic
Benz[a]anthracene*	Naphthalene*
Benzene	2-Nitroanisole
Benzo[b]fluoranthene*	Polychlorinated biphenyls
Benzo[k]fluoranthene*	Polychlorinated dibenzodioxins
Benzenofuran*	Polychlorophenols
Benzo[a]pyrene*	Radioactivity
1,3-Butadiene	Silica (amorphous)
Cadmium	Silica (crystalline)
Carbon black (total)	Styrene
Chrysene*	Sulfuric acid (concentrated mists)
Dibenz[a,h]anthracene*	Tetrachloroethylene
Dichloromethane	Toluene diisocyanates
Ethylbenzene	Trichloroethylene
Formaldehyde	Trichloromethane
Furan	Triphenylene
Indeno-1,2,3-[cd]pyrene*	

⚠ WARNING

If you experience accidental or incidental exposure to a hazardous material, you need to follow the precautions in Section 11 of this Guide regarding Washing and Decontamination, in order to limit exposure to yourself and others.

** Sources and for more information please see: Hwang, Xu, Agnew, Clifton, Malone, Health Risks of Structural Firefighters from Exposure to Polycyclic Aromatic Hydrocarbons: A Systemic Review and Meta-Analysis. 2021, 18 4209 <https://doi.org/10.3390>; Fent, K.W.; Eisenberg, J.; Snawder, J.; Sammons, D.; Pleil, J.D.; Stiegel, M.A.; Mueller, C.; Horn, G.P.; Dalton, J. Systemic exposure to pahs and benzene in firefighters suppressing controlled structure fires. Ann. Occup. Hyg. 2014, 58, 830–845. International Journal of Environmental Research and Public Health. Fent, K.W.; Eisenberg, J.; Evans, D.; Striley, C.; Snawder, J.; Mueller, C.; Pleil, J.; Stiegel, M.; Horn, G.P. Evaluation of Dermal Exposure to Polycyclic Aromatic Hydrocarbons in Fire Fighters: Report No. 2010-0156-3196, NIOSH Health Hazard Evaluation Program. 2013. Available online: <https://www.cdc.gov/niosh/hhe/reports/pdfs/2010-0156-3196.pdf>. Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 98, Painting, Firefighting, and Shiftwork; IARC: Lyon, France, 2010.

10.9 ELECTROCUTION

WARNING

Your Garment is NOT designed to protect you against electrocution. When entering a building, you should NEVER touch live wiring, especially if your Garment is wet. Never allow hoses, nozzles, or other fire equipment you are operating to contact live wiring.

10.10 BLOODBORNE PATHOGENS

Your Garment is designed to protect your body from the hazards of exposure to bloodborne pathogens present in body fluids. Exposure incidents are specific contact of the following with blood or OPIM (Other Potentially Infectious Materials): eye; mouth or other mucous membranes; non-intact skin; or parenteral contact. Make sure face, mouth, eyes, nose, and non-intact skin are covered. Avoid contact with hypodermic needles and other sharp objects. Use Body Substance Isolation Procedures when handling Garments exposed to body fluids. Washing Garments according to the Procedures in Section 11 of this Guide will generally eliminate hazards of exposure to body fluids arising from incidental contact. For heavier levels of exposure, disinfecting or sanitizing Garments will substantially reduce hazards arising from exposure of Garments to potentially hazardous body fluids. See Section 11 of this Guide for more information.

10.11 ADDITIONAL FACTORS AFFECTING SAFETY

The following additional factors may affect the limited protection provided by the Garment:

- Conditions on the fireground or other site of emergency operations that are beyond the scope of the limited purposes of this Garment;
- Unauthorized modifications, repairs or replacement of components of the Garment not otherwise in compliance with LION's specifications; and
- The addition of accessories that are not approved by LION as compatible with NFPA 1971 Compliant Garments. If you have questions about whether accessories will degrade the performance of your Garment below the NFPA 1971 Standards, contact LION or a LION TotalCare® Center or a verified ISP.

11. WASHING AND DECONTAMINATION

11.1 HAZARDS OF DIRTY GARMENTS: WHY WASHING AND DECONTAMINATING IS IMPORTANT

You can be exposed to many hazardous substances on the job. These substances can contaminate your Garments, and cause harm to you after your body contacts your Garments. This section tells you how to wash and decontaminate your Garments to reduce these hazards.

Routine Fireground Contaminants: Many fire combustion products — including hydrocarbons, polynuclear aromatic compounds, metals such as cadmium and chromium, acids and soot — are hazardous to the firefighter (see Fig. 14). These substances can become embedded in the fibers of your Garments, penetrate inner layers, and enter the body through absorption, inhalation, parenteral contact and ingestion. In addition, particulates and other products of combustion can reduce the flame resistance of your Garments and increase your Garments' ability to conduct electricity. To reduce the risk of long-term harm from hazardous substances present in the products of fire combustion, or hazardous chemicals, you **MUST** wash your Garments. **ALWAYS** wash hands thoroughly after handling or cleaning protective equipment.

Hazardous Chemicals: If you experience accidental or incidental exposure to a hazardous chemical, follow all precautions in this Section to limit exposure and risk of harm to yourself and others.

You should hose down contaminated Garments at the scene to limit further exposure to hazardous chemicals, to reduce exposure to others, and to prevent chemicals from settling into your Garments.

WARNING

Some contamination may remain even after decontamination procedures and cleaning processes are used. Decontamination and cleaning does not guarantee that protective clothing and equipment will be 100% free of contaminants. See NFPA 1851.

Bloodborne Pathogens: Your Garments may be exposed to body fluids that may contain bloodborne pathogens. The washing procedures described later in this section will reduce your risk of infection from these hazards.

11.2 FREQUENCY

Clean Garments at least two times annually or as soon as possible after exposure to products of combustion, as well as contamination or exposure to smoke, blood or body fluids, or hazardous substances.

WARNING

Always wash your Garments separately from other items. Never wash your Garments at home or at public laundry facilities to avoid the spread of chemical contamination or hazardous combustion products to other laundry.

WARNING

Never use high velocity power washers or pressure hoses for washing Garments. These tools can severely damage the raw materials and seams.

DANGER

Always clean and thoroughly dry Garments used in any structural firefighting operation. Soiled or contaminated Garments may be combustible, causing serious burns to the wearer.

WARNING

To reduce the risk of harm from hazardous substances present in the products of fire combustion, or hazardous chemicals, you **MUST** wash your Garments.

WARNING

Hazardous fire scene substances and chemicals may penetrate and become absorbed in your Garments. These substances can enter the body through absorption, inhalation, parenteral contact and ingestion. Wipe skin areas near the interfaces of protective clothing and equipment with a wet wipe immediately after doffing. Take a soap and water shower within 1 hour of an incident where an exposure could have occurred.

Reference
NFPA 1500,
section 14.5.3.1



StationCare 1851 is available online at www.lionprotects.com/totalcare.

Contact LION or a LION TotalCare® Center for additional information about the compatibility of cleaning products with protective clothing.

11.3 CLEANING PRODUCTS

- A. Commercially available detergents. Use commercially available detergents with a pH greater than 6.0 and less than 10.5. Many household detergents fall within this range.
- B. Specialty Cleaners. StationCare 1851 from LION TotalCare® is designed for NFPA 1971 Garments. Always read SDS before use.
- C. Spot cleaning and pre-treating. Use commercially available detergents with a pH greater than 6.0 and less than 10.5. Always check SDS and product's instructions before use.

⚠ WARNING

Never use chlorine bleach or chlorinated products to clean your Garments. Even small amounts of chlorine will seriously reduce your Garment's protective qualities. Non-chlorinated bleaches are acceptable.

11.4 SPOT CLEANING

- A. Use a cleaning product that is safe for use on protective clothing fabrics to clean light spots and stains on Garments.
- B. Apply the cleaner one or two times on soiled areas according to the cleaning product's instructions on dilution and application. See Section 11.4 for guidelines on cleaning products.
- C. For outer shells only, use a soft bristle brush (toothbrush or fingernail-type brush dipped in water) to gently scrub the soiled area for 1 or 2 minutes. For inner liner materials, gently rub the fabrics together.
- D. Thoroughly and carefully rinse Garment with cool water.

⚠ WARNING

Do not use petroleum-based solvents to spot clean. These products may reduce the limited protective qualities of the Garment.

11.5 PRETREATING

- A. Apply pretreating product onto the soiled areas according to the pretreating product's instructions on dilution and application.
- B. Thoroughly and carefully rinse the Garment with cool water.
- C. Place Garment into washing machine and follow the wash procedures in this section.

11.6 HEAVILY SOILED AREAS

- A. Air dry Garment before applying cleaning product.
- B. Saturate the heavily soiled and surrounding area according to the cleaning product's instructions on dilution and application. Follow the cleaning product instructions for duration of soaking.
- C. For outer shells only, use a soft bristle brush (toothbrush or fingernail-type brush dipped in water) to gently scrub the soiled area for 1 or 2 minutes. For inner liner materials, gently rub the fabrics together.
- D. Thoroughly and carefully rinse Garment with cool water.
- E. Repeat steps B-D if necessary.
- F. Place Garment into the washing machine as instructed in the wash procedures in this Section.



no chlorine bleach

11.7 MACHINE WASHING

Preparation

Before washing, make sure you comply with all federal, state, and local guidelines for handling effluents from utility sinks. ALWAYS wash shells, liners, DRD and suspenders separately to avoid redepositing soil from one component to the other.

- A. Detach outer shells from the inner liners. Remove DRD or suspenders. Hold the pants suspender button when removing suspender clips to extend the wearlife of the suspender button. Twist snaps to loosen when removing the liner system to extend their wearlife.
- B. Hand wash DRD and suspenders with a mild detergent and soft bristle brush, rinse thoroughly, and hang the DRD and suspenders to air dry AWAY FROM DIRECT OR INDIRECT SUNLIGHT, FLUORESCENT LIGHT OR SHARP OBJECTS. See Section 11.4 for guidelines on cleaning products.
- C. Pretreat heavily soiled Garments following steps in the Spot cleaning and Pretreating procedures, in Sections 11.5-11.7 of this Guide.
- D. Where provided, fasten all hooks and dees or other metal parts and turn the Garment inside out or place in a large laundry bag that can be tied shut to avoid damage to the Garment or to the wash tub.
- E. Fasten all hook and loop closures to each other to reduce the likelihood of damage to delicate parts of your Garments.
- F. Wash shells and liners separately to avoid possible damage to the liner caused by hardware and to avoid cross contamination.

Machine Settings

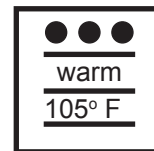
Use a front loading extractor or front loading washing machine with a tumbling action for washing. Do not use a top-loading machine, because it will not wash your Garments as thoroughly, and the agitator may damage the Garment and reduce its durability and protective value.

Use the following machine settings:

- A. Wash temperature should not exceed 105° F (40° C).
- B. Normal Cycle.
- C. Use low extractor speeds less than 100 g's.
- D. Double Rinse Double rinsing removes residual dirt and insures detergent removal. If your machine will not automatically double rinse, a complete second rinse cycle should be run without adding detergent.

Wash Procedures

- A. Load machine with Garments to be washed. Follow machine manufacturer's instructions for proper load size. Overloading the machine can lead to incomplete cleaning and other poor cleaning results.
- B. Add cleaning product per manufacturer's instructions. Never use Chlorine bleach; non-chlorine bleach may be used. Ensure accurate measuring tools are used for correct amount of cleaning product. See Section 11.4 for guidelines on cleaning products.
- C. Set washing machine on normal cycle and start the wash cycle.



water temperature



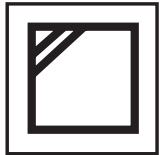
machine wash cycle



no chlorine bleach



line dry/
hang to dry



in the shade



never
tumble dry



never
dry-clean

⚠ WARNING

Never Dry-Clean your Garment. Many Garment components will not function if dry-cleaned.

⚠ WARNING

Only a trained expert in decontamination should attempt to decontaminate Garments. Contact a LION TotalCare® Center or verified ISP to seek assistance in determining whether decontamination is possible, and the name of the appropriate organization to perform decontamination.

11.8 DRYING

- A. Remove Garments from washing machine, and if they are not already inside out from washing, turn them inside out to expose the inner surfaces. Dry by hanging in a shaded area that receives good cross ventilation or use a fan to circulate the air.
- B. Do not use automatic dryers because the mechanical action and excessive heat may damage or shrink your Garments.

⚠ WARNING

Do not hang Garments to dry in direct or indirect sunlight, or in fluorescent light. Light will severely reduce the strength of the seams, and will discolor and greatly reduce the strength and protective qualities of the components of the Garments.

11.9 DO NOT DRY CLEAN

Never dry-clean your Garment. Dry-cleaning will damage the Garment and reduce its protective qualities.

11.10 CONTRACT CLEANING

LION recommends that only a LION TotalCare® Center or verified ISP be used for contract cleaning.

11.11 HAND WASHING IN A UTILITY SINK

LION does **NOT RECOMMEND** this method for washing your Garments. However, if no other options are available, hand washing is preferable to no washing.

Preparation: Before washing, make sure you comply with all federal, state, and local guidelines for handling effluents from utility sinks. Wear rubber gloves to protect against exposure to contaminants. Detach inner liner from outer shell as indicated in the machine washing instructions.

Cleaning Products: Use same cleaning products as used for machine washing.

Procedures: Make sure water temperature does not exceed 105° F (40° C). Using a hand brush, gently scrub surfaces of inner liner and outer shell. Overscrubbing may damage your Garment's materials or reduce its useful life.

Drying: See Section 11.9 for drying procedure.

11.12 DO NOT BRUSH WASH ON FLOOR OF STATION

LION does **NOT RECOMMEND** brush washing your Garment on the floor of the station because this method is not effective and may damage it.

11.13 DECONTAMINATION, DISINFECTION AND SANITIZATION

Applicable Standard. You must read and have facilities and procedures in compliance with NFPA 1581 Standard for Fire Department Infection Control Program.

⚠ WARNING

To reduce risk of harm from hazardous substances present in products of fire combustion, hazardous chemicals, and body fluids, you **MUST** wash, decontaminate and/or disinfect or sanitize your Garments after each exposure to such hazardous substances.

Preparation: Remove contaminated and infected Garments from wearer and from service before beginning. Garments should remain out of service until decontaminated and disinfected or sanitized. Wear protective gloves and appropriate protective clothing and equipment while decontaminating and disinfecting or sanitizing.

A. Hazardous Substances Present in the Products of Fire Combustion (Soot, Smoke, and Debris).

To reduce the risks associated with exposure to the hazardous substances found in the products of fire combustion, you **MUST** wash, dry, and store your garments according to the procedures in this section.

B. Hazardous Chemicals

1. Hose down contaminated Garments at the scene to limit further exposure to hazardous chemicals, to limit exposure to others, and to limit chemicals from settling into your Garments.
2. **KNOWN MATERIALS:** Contact the source of the materials, your local HAZMAT Team, or the Health Department to determine whether the contaminants are hazardous materials. If the contaminant is known, contact a LION TotalCare® Center or verified ISP to determine the feasibility of decontamination.
3. **UNKNOWN MATERIALS:** If the contaminant is not known, Garments should remain out of service until the materials are identified. Always demand SDS information and be prepared to share your findings with the LION TotalCare® Center or verified ISP to decontaminate the Garments. **If your Garment cannot be decontaminated, it must be retired and disposed of in accordance with federal, state, and local regulations.**

C. Blood and Body Fluids

1. **Disinfecting or Sanitizing Products.** You must use disinfectants and sanitizers that are compatible with NFPA 1971 Compliant Garments.
2. **Disinfecting or Sanitizing Procedures for Blood and Body Fluids**

Small incidental areas: Use spot cleaning procedures described in Section 11.5, and use an appropriate disinfectant or sanitizer available for Garments. Always follow the instructions of the manufacturer regarding product usage. Wash Garments thoroughly after spot cleaning in accordance with procedures in this section.

Large areas: If Garments have large areas of coverage of blood or body fluids, place and transport Garments in bags to prevent leakage. Contact a LION TotalCare® Center or verified ISP to arrange for disinfection or sanitization.

11.14 LAUNDRY SAFETY

Laundry and Housekeeping Personnel are considered to be among those at risk to not only hazardous materials, but also to bloodborne pathogens primarily by exposure to sharp objects. Your Fire Department should have a Bloodborne Pathogens Written Exposure Control Plan. Part of this plan is decontamination, disinfection, sanitization and washing of Garments, and it should include LAUNDRY ROOM SAFETY PROCEDURES and HOUSEKEEPING SAFETY PROCEDURES. You should follow all appropriate federal, state, and local regulations.

If you have questions concerning the use of a particular disinfectant or sanitizer, contact LION, a LION TotalCare® Center, or verified ISP.

! CAUTION

Personnel involved in the handling, sorting, bagging, transporting, and laundering of contaminated Garments must wear utility gloves and appropriate protective clothing to prevent occupational exposure during these activities.

12. REASSEMBLY

Your Garment was completely assembled at the factory with an outer shell, liner, a DRD (coats and coveralls), and other components. However you may wish to separate your shell, liner, and DRD for inspection, washing, decontamination, or repairs. This section tells you how to put your Garment back together.

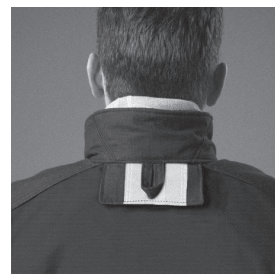
12.1 COATS

- A. Start with coat shell and liner separated.
- B. Orient the coat exterior side down so that the inner surface of the shell is facing you. Attach the coat shell collar to the coat liner collar and fold the liner up over the top of the shell. See **(FIG. 14A)**.
- C. Lay DRD on shell with hook fastener on hand loop facing down. See **(FIG. 14B)**.
- D. Insert hand loop into welt opening and push through the opening.
- E. Insert DRD through shoulder loops and engage hook and loop. See **(FIG. 14C)**.
- F. Fold liner down over shell. See **(FIG. 14D)**.
- G. Put the liner sleeves through the larger torso loop of the DRD.
- H. Insert liner sleeves into shell, carefully avoiding any twisting or bunching. See **(FIG. 14E)**.
- I. Fasten the wrists of the liner to the wrists of the shell beginning with the guide snap then securing the hook and loop.
- J. At the lower back area of shell, press the hook material on the DRD onto the corresponding loop piece on the shell. Starting on either side, follow webbing around shoulder and down to the back to remove any twists. Repeat for other side. When done properly, the label faces outward and the hook fastener on the DRD faces the shell. This hook and loop fastener tab eliminates twisting or drooping of the DRD below the liner while donning and doffing the coat.
- K. Bend 2 inches (5 cm) of the hand loop over into the welt opening on the outside of the coat shell and mate the loop fastener on the hand loop with the corresponding hook fastener on the coat shell. Pull the flap down and press into position over the hand loop.
- L. Fasten the left and right fronts of the liner to their counterparts in the coat's left and right front facings.
- M. Try on coat to check for comfort and proper fit.



12.2 DRD STOWAGE

- A. After each deployment, inspection, or cleaning, you must reset the hand loop inside of the coat. You may secure the tip of the DRD hand loop either in the "stowed" position or in the "ready" position as shown.
- B. While stowed in the coat, you should regularly check the DRD to ensure that the DRD is in proper position between the shell and liner, it is not twisted and that the hand loop is securely fastened in either the "stowed" or "ready" position. See Section 12.1, step "J".



DRD "Stowed"



DRD "Ready"

12.3 PANTS

- A. Start with the pants shell and liner separated.
- B. Insert liner legs into shell, carefully avoiding any twisting or bunching of the legs or torso.
- C. Fasten the waist of the liner to the waist of the shell.
- D. Fasten the cuffs of the liner to the cuffs of the shell with the guide snaps.
- E. Reattach suspenders. Hold suspender buttons when reattaching suspender clips.
- F. Try on pants to check for comfort and proper fit.

13. REPAIRS

To inquire on whether a damaged Garment including its outer shell, liner, DRD or other component may be repairable, contact a LION TotalCare® Center or verified ISP. REPAIRS SHOULD ONLY BE MADE BY LION TotalCare® OR BY A VERIFIED ISP.

WARNING

Before any repairs are made to your NFPA 1971 Compliant Structural Firefighter Garment, it must be washed, decontaminated, and disinfected or sanitized in accordance with this Guide to protect workers who alter or repair Garments from exposure to soils and contaminants.

All major repairs to Garments should be done by LION TotalCare® or a verified ISP. Major repairs made by any other entity invalidates all warranties and may expose the wearer to hazardous or life threatening conditions.

For a list of LION TotalCare® Centers, visit www.lionprotects.com/totalcare-locations. Call LION at (800) 421-2926 for an updated list of verified ISPs.

14. STORAGE

Between runs and for longer-term storage, hang your Garments, including its liner, DRD, and other components in a dry location out of direct and indirect sunlight and fluorescent light and away from sharp objects that may cause tears or snags in the fabric. See (FIG. 15).

Use fans to provide good ventilation to dry Garments that may have absorbed water or sweat after a run, and to assist in the dissipation of fireground combustion products that may not have been removed by washing.

To make the thermal liner dry faster, turn your Garments inside out. Moisture in your thermal liner reduces your insulation, comfort and overall protection during structural firefighting operations.

Failure to dry your Garment will result in the growth of mildew and bacteria which could lead to skin irritation, rashes, or may affect the protective qualities of the fabrics and moisture barrier materials.

Always wash and dry your Garments in accordance with the Washing Section of this Guide and before hanging in long-term storage. Garments should be stored at temperatures between 25° F and 180° F.



FIG. 15
Never store your Garments in direct sunlight, indirect sunlight, or in fluorescent light.

⚠ WARNING

Avoid storing your Garment in temperature extremes. Repeated cycles of heating and cooling can reduce the protective qualities and useful life of the Garment.

⚠ WARNING

NEVER STORE YOUR GARMENT, INCLUDING THE DRD, IN DIRECT SUNLIGHT, INDIRECT SUNLIGHT, OR IN FLUORESCENT LIGHT (**FIG. 15, FIG. 16**). Exposure to light (particularly light in the sun's rays and fluorescent light) will severely weaken and damage the components in your Garment after only A FEW DAYS. Install UV filters on fluorescent lights. Damage caused by exposure to light cannot be repaired, nor will the manufacturer cover such damage in its warranty. See the Warranty Section of this Guide for more information.

⚠ CAUTION

Do not store your Garments in contact with contaminants such as oils, solvents, acids or alkalis as these can damage the garment.

⚠ CAUTION

Do not store Garments in air tight containers unless the Garments are new and have not been issued.

⚠ WARNING

Never store your Garments in living quarters with personal belongings, or within the passenger compartment of a vehicle. Prolonged exposure to contaminants remaining in the Garments may increase the risk of cancer or other diseases.



FIG. 16

The combination of exposure to direct sunlight and heat, and normal wear and tear most likely created the holes and worn-away areas of the aramid material in the thermal liner of the Garment shown in the photo. To maintain the useful life of your Garment, you must store it away from direct or indirect sunlight and fluorescent light. Always follow inspection and retirement requirements in this Guide.

15. RETIREMENT

15.1 USEFUL LIFE AND RETIREMENT

NFPA 1971 performance requirements are based on new, unworn Garments and composites. Useful life is the period of time that Garments that have been properly cared for can be expected to provide reasonable limited protection. Useful life of Garments can be as little as 3 to 5 years with heavy wear and tear or improper maintenance and/or storage. Useful life can be as long as 7 to 10 years if Garments have been subject to relatively lower levels of wear and tear and have been consistently maintained in a regular cleaning and maintenance program and stored properly. In compliance with NFPA 1851, Garments or Garment elements must be retired no more than 10 years from the date of manufacture.

The useful life of a Garment will vary according to the following factors:

- Weight and type of weave of fabric
- Age and frequency of use
- Number and type of previous repairs
- Type of work the wearer performed
- The length of exposure to extreme heat, and the intensity of the heat
- The length of exposure to hazardous chemicals
- The length of exposure to direct or indirect sunlight, or other light sources such as fluorescent light
- Condition of the thermal liner and moisture barrier
- Garments more than 7 years old

Your Garments should be assessed by trained professionals at each regular Advanced Inspection to determine whether they have exceeded their useful life and must be retired. Your Garments must be removed from service when they can no longer be safely used. Many departments replace garments when the cost of repair would exceed 50% of the cost of replacement.

Trained professionals with in-depth knowledge of Garments and their limitations should handle the details of a retirement program. If you have any questions about the useful life and retirement of your Garment, get assistance before wearing your Garment into any emergency situation! Contact a trained expert within your department, LION, a LION TotalCare® Center, or a verified ISP.

15.2 FABRIC COLOR OR SHADE CHANGES

Garment textiles normally change color during their useful life as a result of soiling, washing, abrasion, or exposure to fireground conditions or U.V. light. Shade changes could sometimes indicate a compromise in the fabric's protective properties. Whenever you discover any change in color, inspect your Garment according to Section 6 of this Guide.

16. DISPOSAL

Retired uncontaminated Garments must be destroyed to prevent their unauthorized or mistaken use. Cut them into several pieces and dispose of properly. One suggested method of disposal is a landfill.

Retired Garments that are contaminated with blood or body fluids or hazardous chemicals should be placed in a plastic bag and properly disposed of. Follow federal, state, and local regulations governing disposal of hazardous materials.

CAUTION

Most performance properties of the Garment and its components cannot be tested by the user in the field.

WARNING

Never use retired Garments for training purposes. Use of retired Garments in hazardous situations could result in serious injury or death.

HOW LONG IS USEFUL LIFE?

- The period of time that NFPA 1971 Compliant Structural Firefighter Garments, which have been properly cared for, can be expected to provide reasonable limited protection. Useful life of Garments can be as little as 3 to 5 years with heavy wear and tear or improper maintenance and/or storage.
- Useful life can be as long as 7 to 10 years if Garments have been subject to relatively lower levels of wear and tear and have been consistently maintained in a regular cleaning and maintenance program and stored properly.

17. LIMITED LIFETIME PRODUCT WARRANTY

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

Conditions of use are outside the control of LION. It is the responsibility of the user to inspect and maintain the products to assure they remain fit for their 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 product's 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, EXPRESS 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 any 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 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.

USEFUL LIFE: The period of time that NFPA 1971 Compliant Structural Firefighter Garments, which have been properly cared for, can be expected to provide reasonable limited protection. Useful life can be as long as 7 to 10 years if Garments have been subject to relatively lower levels of wear and tear and have been consistently

maintained in a regular cleaning and maintenance program and stored properly. Useful life of Garments can be as little as 3 to 5 years with heavy wear and tear or improper maintenance and/or storage. In compliance with NFPA 1851, Garments or Garment elements must be retired no more than 10 years from the date of manufacture. A Garment should be retired when the costs of repair would exceed 50% of the replacement cost.

DEFECTS IN WORKMANSHIP AND MATERIALS: Defects in Workmanship and Materials means poorly manufactured items including seams, stitching, or components (for example, loose or broken seams; zippers or snaps that fall off or do not function properly); and fabrics or barriers which have such flaws as holes, uneven spots, weak areas, pilling, or other flaws caused by irregularities in their manufacture.

EXCEPTIONS TO LIMITED WARRANTY

This limited warranty does not cover the following items after receipt of product by end user:

- Claims made after 60 days from the date of shipment for damage to materials;
- Damage or color change from exposure of materials to direct or indirect sunlight or fluorescent light;
- Shade variations among textiles used or shade changes to fabrics caused by wear and tear and/or washing;
- Color loss due to abrasion (creases, folds, pleats, edges, collar points, etc.);
- Damage caused by improper washing, decontamination, disinfecting or maintenance (for example, use of chlorine or petrochemicals to clean);
- Damage caused by repair work not performed to factory specification;
- Damage from routine exposure to common hazards which may cause rips, tears, burn damage, or abrasion;
- Loss of retroreflectivity of reflective trim due to normal wear or heat exposure;
- Detachment of reflective trim due to thread abrasion or heat exposure;
- Replacement of zippers or closures worn partially sealed, or damaged by heavy wear and tear;
- Loss of buttons, snaps, or cuff hem seams.

18. INSPECTION, CLEANING, REPAIR, RETIREMENT AND DISPOSAL RECORD

Garment ID _____ Model _____ Date of Garment Manufacture _____

In the spaces below, note the activities performed on your Garment during its wear life.
Types of activities can include: Routine or Advanced Inspection; Routine or Advanced Cleaning; Decontamination; Repair; Alteration; Removal from Service; Retirement; Disposal, etc.

Date of Activity	Type of Activity	Reason for Activity	Description of Repair, Inspection Findings, etc.	Location on Garment	Inspection/Cleaning/Repair Site	Activity Performed By	Date Returned to Service



Date of Retirement _____ Date and Method of Disposal _____

Earn your LION
NFPA 1500 PPE Safety
and Use Certificate



⚠ WARNING

It is your responsibility to use proper personal hygiene to reduce exposure to carcinogenic products of combustion.

PERSONAL RESPONSIBILITY CODE



The member companies of FEMSA that provide emergency response equipment and services want responders to know and understand the following:

1. Firefighting and Emergency Response are inherently dangerous activities requiring proper training in their hazards and the use of extreme caution at all times.
2. It is your responsibility to read and understand any user's instructions, including purpose and limitations, provided with any piece of equipment you may be called on to use.
3. It is your responsibility to know that you have been properly trained in Firefighting and/or Emergency Response and in the use, precautions and care of any equipment you may be called upon to use.
4. It is your responsibility to be in proper physical condition and to maintain the personal skill level required to operate any equipment you may be called upon to use.
5. It is your responsibility to know that your equipment is in operable condition and has been maintained in accordance with the manufacturer's instructions.
6. Failure to follow these guidelines may result in death, burns, injury, diseases, and illnesses.



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www.femsa.org

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FI 6489-054



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RESOLUTION NO. R-2022-276

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA, APPROVING AND AUTHORIZING THE APPROPRIATE CITY OFFICIALS TO EXECUTE A BLANKET PURCHASE AGREEMENT WITH MUNICIPAL EQUIPMENT COMPANY, LLC FOR BUNKER GEAR AND RELATED ACCESSORIES IN AN ANNUAL AMOUNT NOT TO EXCEED \$140,000.00, BASED UPON THE LAKE COUNTY, FLORIDA, CONTRACT 22-730H IN ACCORDANCE WITH SECTION 38.41(C)(5) OF THE PROCUREMENT CODE (PIGGYBACK).

WHEREAS, the Department of Fire Rescue desires to purchase Bunker Gear and related accessories for firefighting activities; and

WHEREAS, the Bunker Gear and related accessories were competitively bid by Lake County, Florida through Bid Number 22-730: Fire Equipment, Supplies and Services on April 28, 2022 and awarded to Municipal Equipment Company, LLC under Contract: 22-730H; and

WHEREAS, the current term of Contract 22-730H is from August 1, 2022 through July 31, 2023, with an option to renew for two two-year terms at Lake County's sole option; and

WHEREAS, Municipal Equipment Company, LLC has agreed to extend to the City the same pricing under the terms and conditions set forth in Contract 22-730H, for an annual amount not to exceed \$140,000.00; and

WHEREAS, Section 38.41(C)(5) of the Procurement Code allows the Chief Procurement Officer to procure, without formal solicitation procedures, all goods, supplies, materials, equipment, and services that are the subject of contracts with the state, its political subdivisions, the United States government, other governmental entities, or a corporation not for profit whose members are governmental entities, public officers, or any combination thereof ("piggyback"), provided that the goods, supplies, materials, equipment, or services are the subject of a price schedule negotiated by the entities listed above and is based strictly on competitive bids, quotations, or competitive proposals and not on any preference and such utilization of other governmental entities contracts shall be permitted only during the term of the other governmental entity's contract; and

WHEREAS, the Fire Chief recommends that the City Commission approve and authorize the execution of a Blanket Purchase Agreement with Municipal Equipment Company, LLC based upon Contract 22-730H for Bunker Gear and related accessories in an annual amount not to exceed \$140,000.00; and

WHEREAS, funding for the attached Blanket Purchase Agreement has been appropriated and exists in account numbers 001.215101.52200.552160.000000.000.000 and 111.219801.52200.564530.000000.000.000.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF HOLLYWOOD, FLORIDA:

Section 1: That the foregoing "WHEREAS" clauses are ratified and confirmed as being true and correct and are incorporated in this Resolution.

Section 2: That it approves and authorizes the execution, by the appropriate City officials, of a Blanket Purchase Agreement with Municipal Equipment Company, LLC, together with such non-material changes as may subsequently be agreed to by the City Manager and approved as to form and legal sufficiency by the City Attorney.

Section 3: That this Resolution shall be in full force and effect immediately upon its passage and adoption.

PASSED AND ADOPTED this 21 day of September, 2022.

JOSH LEVY, MAYOR

ATTEST:



PATRICIA A. CERNY, MMC
CITY CLERK

APPROVED AS TO FORM AND LEGAL SUFFICIENCY for the use and reliance of the City of Hollywood, Florida, only.



DOUGLAS R. GONZALES
CITY ATTORNEY *rs*



Blanket Purchase Agreement PA600560

Supplier Details:

Company Municipal Equipment Company, LLC
Contact Justin D. Elkins
Address 2049 West Central Blvd
Orlando, FL 32805

Submit your response to:

Company City of Hollywood, FL - Fire Administration
Contact Poli, Alexander
Address 2741 Stirling Rd
Hollywood FL 33020
Phone 1-954-967-4248
Fax
E-mail apoli@hollywoodfl.org

Dear Vendor:

This is to inform you that the City of Hollywood, Florida is entering a Blanket Purchase Agreement with your Company based on the following:

Piggyback Lake County Contract 22-730H

DRAFT



Blanket Purchase Agreement PA600560

Agreement	PA600560
Creation Date	17-AUG-2022
Revision	0
Agreement Amount	140,000.00 USD

VENDORS MUST INCLUDE THE CITY'S PURCHASE ORDER NUMBER ON ALL INVOICES. PLEASE SUBMIT ALL INVOICES TO ACCOUNTSPAYABLE@HOLLYWOODFL.ORG.

OR Mail To	City of Hollywood Accounts Payable, Room 119 P.O. Box 229045 Hollywood, FL 33022-9045	Supplier	Municipal Equipment Company, LLC 2049 West Central Blvd Orlando, FL 32805
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Notes The Lake County Contract # 22-730H terms and conditions prevail over the City's Purchase Order terms and conditions.

Customer Account Number	Supplier Number	Payment Terms	Freight Terms	FOB
	32188	Net 30	None	Destination
Start Date	End Date	Shipping Method		
08/01/2022	07/31/2023			
Initial Award Term	08/01/2022	07/31/2023		
First Renewal Period	08/01/2023	07/31/2025		
Second Renewal Period	08/01/2025	07/31/2027		
Third Renewal Period				
Fourth Renewal Period				

Attachments			
Type	File Name or URL	Title	Description

Line	Item	UOM	Price	Expiration Date
1	CVBM-32 JANESVILLE V-FORCE BI-SWING COAT, 32" LENGTH, PER SPECIFICATION LIST PRICE \$3282.00 LIST - 35%	Each	1,567.02	
Attachments				
Type	File Name or URL	Title	Description	
2	SEW ON HAZMAT PATCH JANESVILLE SEW ON HAZMAT PATCH OPTION LIST PRICE \$41.77 LIST - 35%	Each	27.15	



Blanket Purchase Agreement PA600560

Line	Item	UOM	Price	Expiration Date
Attachments				
	Type	File Name or URL	Title	Description
3	PVFM JANESVILLE V-FORCE LOW RISE PANT WITH SUSPENDER PER SPECIFICATION LIST PRICE \$2284.00 LIST - 35%	Each	1,116.73	
Attachments				
	Type	File Name or URL	Title	Description
4	507502 HAIX EAGLE AIR BOOTS LIST PRICE \$524.00 LIST - 20%	Each	393.00	
Attachments				
	Type	File Name or URL	Title	Description
5	LPG928BLK LION COMMANDER ACE GLOVES LIST PRICE \$133.00 LIST - 20%	Each	104.00	
Attachments				
	Type	File Name or URL	Title	Description
6	LIOHD395142 LION REDZONE PARTICULATE HOOD - BLACK LIST PRICE \$140.00 LIST - 20%	Each	99.00	
Attachments				
	Type	File Name or URL	Title	Description
7	ULW6R350 BULLARD LIGHTWEIGHT TRADITIONAL STYLED FIBERGLASS STRUCTURAL HELMET WITH RETRAK INTEGRATED VISOR AND 6" BRASS EAGLE LIST PRICE \$529.02	Each	345.00	



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Line	Item	UOM	Price	Expiration Date
	LIST - 5			
Attachments				
	Type	File Name or URL	Title	Description
8	6-3 PAUL CONWAY 6" LEATHER SHIELD, DRILLED TO FIT A BULLARD ULW6R350 HELMET, BRASS BACK BRACKET LIST PRICE \$52.24 LIST - 2%	Each	51.20	
Attachments				
	Type	File Name or URL	Title	Description
9	JASR842X JANESVILLE 42" SUSPENDER RECTANGULAR METAL LOOPS LIST PRICE \$149.00 LIST - 35%	Each	91.25	
Attachments				
	Type	File Name or URL	Title	Description
10	Per the Pricing and Services on Lake County Contract # 22-730H		0.00	
Attachments				
	Type	File Name or URL	Title	Description



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TERMS AND CONDITIONS

The following Terms and Conditions are applicable to this order entered into by and between the City of Hollywood (referred to as Buyer) and Vendor (referred to as Seller).

MODIFICATIONS

This purchase order form and any other document pertaining to this transaction which has been acknowledged in writing by the Director is a complete and exclusive statement of this order. Accordingly no modification or amendment shall be binding upon the Buyer unless signed by the Director. The City Attorney has approved these standard terms and conditions as to form and legality. Accordingly no modification of these terms and conditions shall be binding upon buyer unless they are endorsed and approved by the City Attorney. In the event of a conflict between these terms and conditions and any other document pertaining to the transaction covered by this order, these terms and conditions shall prevail.

ASSIGNMENT

Any assignment of this order or the performance of work hereunder, in whole or in part, is prohibited.

EXCUSABLE DELAYS

The Buyer may grant additional time for any delay or failure to perform hereunder if the delay will not adversely impact the best interests of the Buyer and is due to causes beyond the control of to Seller. Such grant must be in writing and made part of the order.

DEFAULT

In the event of default by the Seller, Buyer may procure the articles or services covered by this order from other sources and hold to Seller responsible for any excess costs occasioned thereby, in addition to all other available remedies at law or equity.

TERMINATION

Buyer, acting through its City Manager or his/her designee, reserves the right to terminate this order In whole or in part for default (a) if Seller fails to perform In accordance with any of the requirements of this order or (b) If Seller becomes insolvent or suspends any of its operations or if any petition is filed or proceeding commenced by or against Seller under any State or Federal Law relating to bankruptcy, reorganization, receivership or assignment for the benefit of creditors. Any such termination will be without liability to Buyer except for completed Items delivered and accepted by the Buyer. Seller, will be liable for excess costs of reprourement.

F.O.B.

In those cases where F O.B. point is not Destination, Seller is required to prepay freight charges and list separately on invoice. Collect shipments will not be accepted.

TERMS

By accepting this order, the Seller agrees that payment terms shall be Net 30 unless otherwise stated.

INVOICING

Seller must render original invoice to the City of Hollywood, Department of Financial Services, P.O. Box 229045, Hollywood, Florida 33022-9045.

TAX

The City of Hollywood is exempt from Federal and State taxes for tangible personal property. Sellers doing business with the City, which are not otherwise exempt, shall not be exempt from paying sales tax to their suppliers for materials to fulfill contractual obligations with the City, nor shall any Seller be authorized to use the City Tax Exemption Number in securing such materials.

RESPONSIBILITY

Responsibility will not be accepted for any goods delivered or services performed unless covered by a duly signed and authorized City of Hollywood order, issued by the Procurement Services Division.

ACCEPTANCE

Seller's acceptance of this order will be presumed unless Seller acknowledges exception, in writing, to Buyer within ten (10) calendar days after date of order.

DELIVERIES

Deliveries are to be made during the hours of 7:30 a.m. to 4:00 p.m. Monday through Friday, excluding holidays, unless otherwise stipulated. Seller shall notify the Buyer of deliveries that require special handling and/or assistance for off-loading. Failure to notify the Buyer concerning this type of delivery will result in the billing to Seller of any add-on redelivery, storage or handling charges.

INSPECTION

All Commodities delivered on this order are subject to inspection upon receipt by a representative of the Buyer. All rejected



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commodities shall remain the property of the Seller and will be returned at the Seller's expense.

QUANTITIES

Quantities specified in the order cannot be changed without Buyer approval. Goods shipped in excess of quantity designated may be returned at the Seller's expense.

PAYMENT CHANGES

Payments will be made only to the company and address as set forth on order unless the Seller has requested a change thereto on official company letterhead, signed by an authorized officer of the company.

ANTI-DISCRIMINATION

Sellers doing business with the Buyer are prohibited from discriminating against any employee, applicant or client because of race, creed, color, national origin, sex or age with regard to but not limited to the following: employment practices, rates of pay or other compensations, methods and training selection.

UNIFORM COMMERCIAL CODE

Florida law, including without limitation the Uniform Commercial Code (Chapter 670 – 680, Florida Statutes), shall apply to and supplement the terms and conditions of this order. Venue shall lie in a court of competent jurisdiction in Broward County, Florida.

LEGAL RESPONSIBILITY

By accepting this order, Seller understands and agrees that the items covered herein, or services to be rendered, shall be manufactured, sold or performed in compliance with applicable Federal, State, County and Local laws, ordinances, rules and regulations. Lack of knowledge by the Seller shall in no way be a cause for relief from responsibility.

LIABILITY - COPYRIGHT/PATENT/TRADENAME

Seller shall save and hold harmless Buyer, its officers, employees and agents from liability for infringement of any United States patent, trademark or copyright for or on account of the use of any product sold to Buyer or used in the performance of this order.

INDEMNIFICATION

Seller shall indemnify, hold harmless and defend Buyer, its officers, employees and agents from and against any and all claims, damages, liability, judgments or causes of action, including costs, expenses and attorney fees, incurred as a result of any error, omission or negligent act by the Seller, its officers, employees, agents, subcontractors or assignees arising out of this order.

OCCUPATIONAL SAFETY AND HEALTH

Seller must comply with requirements under Chapter 442, Florida Statutes, that any toxic substance delivered as a part of this order must be accompanied by a Materials Safety Data Sheet (M.S.D.S.).

REPRESENTATIVE

All parties to this order agree that the representatives named herein are, in fact, bonafide and possess full and complete authority to bind said parties.

PUBLICITY

No endorsement by the City of the product and/or service will be used by Seller in any way, manner or form in product literature or advertising.

INSURANCE

The Seller of services must have secured and maintained the required amount of \$1,000,000 general and \$500,000 automobile liability limits and must list the City as an additional insured of this coverage. The Seller must have worker's compensation coverage as required by law. Any exception to the above stated limits or other requirements must be endorsed and approved by the City of Hollywood Risk Manager.

WARRANTY

For purposes of this order, Seller warrants: (a) the goods shall strictly conform to all specifications, drawings, instructions, advertisements, statements on containers or labels, descriptions and samples; (b) the goods shall be free from defects in workmanship and material and shall be new and of the highest quality; (c) Buyer shall receive title to the goods that is free and clear of any liens, encumbrances and any actual or claimed patent, copyright or trademark infringement; (d) the goods shall be merchantable, safe and fit for the Buyer's intended purposes, which purposes have been communicated to Seller; (e) the goods shall be adequately contained, packaged, marked and labeled; and (f) the goods shall be manufactured in compliance with all applicable federal, state and local laws, regulations or orders, and agency or association standards or other standards applicable to the manufacture, labeling, transporting, licensing, approval or certification, including by way of illustration and not by way of limitation, the Occupational Health and Safety Act, the Fair Labor Standards Act, and any law or order pertaining to discrimination.



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In the event that services are provided in connection with the supply of goods, Seller expressly warrants that the services will be performed: (a) with due professional care; (b) in a workmanlike, professional, timely and diligent manner; (c) in accordance with all applicable industry standards and industry best practices; (d) by qualified workers experienced in performing the work specified; (e) in strict conformance with applicable specifications and industry accepted performance criteria; and (f) in strict conformance with this order, including but limited to any statement(s) of work issued, or quote(s) received, by Buyer.

The warranty period shall be 12 months from the date of first use of the goods by Buyer or 12 months from the date of acceptance by Buyer, whichever occurs later, unless otherwise mutually agreed to by the Buyer and Seller.

Notwithstanding the foregoing, Seller agrees to waive the expiration of the warranty period in the event there are failures or defects discovered after the warranty period of a material nature or in a significant portion of the goods, or a defect is discovered which, in Buyer's opinion, constitutes a threat of damage to property or to the health and safety of any person.

Signature: Steve Stewart
Assistant Director, Financial Services for Procurement

DRAFT

Alexander Poli

From: Certificate of Insurance
Sent: Thursday, April 6, 2023 11:05 AM
To: Alexander Poli; Certificate of Insurance
Subject: RE: Approval of Certificate of Insurance
Attachments: COI for Municipal Equipment Company.pdf

Good morning chief,

Does this vendor have a written contract? I am asking because our brokers have a problem with the language in the description box "where required by written contract" if there isn't a contract. **If they do have a contract the COI is acceptable** if the do not have a contract that wording should come out.

Thank you,

Stacy

From: Alexander Poli <APoli@hollywoodfl.org>
Sent: Thursday, April 6, 2023 10:52 AM
To: Certificate of Insurance <COI@hollywoodfl.org>
Subject: Approval of Certificate of Insurance

Hello,

Please review the attached Certificate of Insurance for Municipal Equipment Company. This vendor measures our firefighters onsite for bunker gear. Please advise if it's satisfactory. Thanks.

Sincerely,

Alexander N. Poli
Division Chief of Administration
Hollywood Fire Rescue & Beach Safety Department
2741 Stirling Rd, 3rd Floor
(Office) 954-967-4248
(Cell) 561-307-7181



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
4/6/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER O'Neil, Lee & West, Inc. 408 E. Ridgewood Street Orlando FL 32803	CONTACT NAME: Matt West	
	PHONE (A/C, No, Ext): 407-425-3411	FAX (A/C, No): 407-843-2632
E-MAIL ADDRESS: matt@olwinc.com		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURER A: Great American Insurance Co.		16691
INSURER B: Hartford Accident & Indemnity		22357
INSURER C: Twin City Fire Ins Co		29459
INSURER D:		
INSURER E:		
INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** 1717507531 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y		PL1743607-06	2/14/2023	2/14/2024	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 500,000 MED EXP (Any one person) \$ 20,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY <input checked="" type="checkbox"/> HIRED AUTOS ONLY	Y		21UECDE6947	2/14/2023	2/14/2024	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			XS3288374-03	2/14/2023	2/14/2024	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	21WBCVX2986	5/22/2022	5/22/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 The City of Hollywood is included as Additional Insured where required by written contract with respect to General Liability and Commercial Auto.

CERTIFICATE HOLDER City of Hollywood PO Box 229045 Hollywood FL 33022	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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