



City of Dayton, Ohio  
Departments of Fire and Aviation

Fire Fighter Bunker Gear

REQUEST FOR PROPOSAL (RFP) No. 19016FDOP

August 2019

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## SECTION 1 – PROPOSAL INSTRUCTIONS

**1.01 COMMUNICATIONS REGARDING THIS PROJECT.** Please direct all communications regarding the RFP Process to:

City of Dayton, Department of Fire  
Kevin Kuntz  
300 North Main Street  
Dayton, Ohio 45402  
Telephone: (937) 333-4508  
Fax: (937) 333-4561  
E-Mail: Kevin.Kuntz@daytonohio.gov

All communications/questions concerning this RFP must be submitted in writing referencing the specific paragraph and page number. The deadline for questions is listed in Section 1.02 (RFP Schedule). Written responses will be prepared by the City and posted on the city's web site by the date listed in *Section 1.02*. Changes to this RFP will be made only by formal written correspondence issued by the City.

A copy of this proposal and any additional documentation may be found at the City of Dayton's website at:

<http://daytonohio.gov/bid>

**1.02 RFP SCHEDULE.** The following is the anticipated schedule for the RFP Process:

Issue RFP:	August 12, 2019
Proposers Deadline to Submit Questions:	4:00 PM local (Dayton OH) time on August 20, 2019
City's Written Responses to Questions:	August 22, 2019
Due Date and Time for Proposals and Test Gear:	2:00 PM local (Dayton OH) time on September 25, 2019

**1.03 SUBMITTING A PROPOSAL.** Each Contractor seeking consideration for performance of services related to the project must submit a Proposal. Proposers are to submit one original copy signed by an officer authorized to bind the company and 6 copies of their written proposal. All proposals shall be sealed, properly addressed with the name of the Contractor and sent to:

RFQ 19016FDOP Fire Fighter Buner Gear  
City of Dayton, Division of Purchasing, Room 514  
Melissa Wilson  
City Hall  
101 West Third Street  
Dayton, Ohio 45402

Sealed proposals must be received at the above address, in Room 514 by 2:00 PM (Dayton OH) local time on the date indicated in Section 1.02 (RFP Schedule). Proposals received after the scheduled date/time will not be considered. All supporting materials and documentation must be included with the proposal. The responsibility of timely delivery lies solely with the proposer. Faxed and e-mailed proposals are **not** acceptable.

The City reserves the right to reject any and all proposals, to waive any irregularities in a proposal, or to accept the proposal(s) which in the judgment of proper officials, is in the best interest of the City. The City reserves the right to accept a part or parts of a proposal unless otherwise restricted in the RFP or issue subsequent Requests for Proposal. The City reserves the right to approve or reject any sub-Contractors proposed for work under this proposal or waive any minor irregularities

The City reserves the right to select the successful proposer on the basis of proposals received, without seeking further information for clarification from proposers. Upon review of proposals, the City may designate the most

qualified proposals as finalists. These finalists may be invited to make oral presentations and participate in a question and answer session with the City. The City shall have the right to visit selected user sites, should this be deemed necessary.

All federal, state, and local laws regarding competitive bidding, anti-competitive practices, and conflict of interest shall be applicable to this RFP.

The City does not guarantee that any contract will be awarded as a result of this RFP. In the event that a contract award is made but the contract is not executed, the City does not guarantee that the contract will be re-awarded

**1.04 REQUIRED PROPOSAL CONTENTS.** All brochures and supplemental documentation shall be included with the original and all of the copies. If not, the proposal may be considered as non-responsive. Contractors are required to submit the following information in their proposal:

- **Letter of Transmittal:** The proposer shall provide a transmittal letter with authorizing signature for the proposal. The letter must briefly summarize the vendor's ability and willingness to perform the services required by the RFP. The letter must be on the form provided in Exhibit A.
  - **Company Profile and Background.** Provide the following information:
  - **Location** - The street address of the proposer's company headquarters.
  - **Local Office of Proposer** - Provide the location of the proposer's office nearest to Dayton, Ohio. Include the local office, a contact name, address, telephone, and fax numbers.
  - **Company's Primary Business** - State the proposer's primary business, the number of years in the proposer's industry, and the number of employees assigned to these related activities.
  - **State the legal make-up** of your company: sole proprietorship, partnership, corporation, etc.
  - **Please list and Lawsuits that you are currently engaged in.** Please provide any and all suits either with the City of Dayton or any other Municipalities (include, but not limited to Federal, State, Local or other Municipalities and Governmental agencies).
  - **Key Personnel Information.** Provide the name, title, mailing address, telephone number and e-mail address of the persons who will function as the City's primary contact and back-up contact person. Provide brief resumes/qualifications of personnel who will be primarily involved in this project. Include any certifications earned, special training taken, and memberships in professional groups. Complete Form found in Exhibit A.
- **Proposal Response** as per Section 2.
- **Statement of Exceptions to RFP requirements:** Provide a detailed description of any exceptions taken to the requirements of this RFP, including the City Standard Terms and Conditions in Section 3. Exceptions shall be referenced to the applicable RFP section/sub-section numbers. Any other departures from the city's RFP are to be identified and failure to do so shall make the proposal non-responsive.
- **References:** Provide a list of references on form provided as Exhibit B. We are particularly interested in contacting your governmental clients in the state of Ohio.
- **Product Manufacturer Labor Standards: Vendor Compliance Form.** Please complete the form provided as Exhibit C.

**1.05 Items that Disqualify a Vendor Immediately.**

- Incomplete or non-responsive proposal
- Failure to follow the requirements outlined in this proposal
- Inability to obtain Affirmative Action Assurance approval prior to award of the contract. See Section 3.06 for information on how to contact the Human Relations Council.

**1.06 CRITERIA.** The selection committee will evaluate each proposal submitted based on the following criteria. After receipt and review of the written proposal, the City may elect to have the proposal presented in person, or clarifications submitted in writing.

Evaluation Criteria		
Item	Description	Percentage Possible
1	Field Test Results	50%
2	Previous Experience	20%
3	Cost/Price/Lump Sum Fee	20%
4	Dayton Local Business	5%
5	PEP Certified Vendor	5%
	<b>Total Points</b>	<b>100%</b>

## SECTION 2 – SCOPE OF PROJECT

### 2.01 PURPOSE AND NEED / PROJECT DESCRIPTION.

The City of Dayton (“City”) is seeking proposals from highly experienced and professional vendors to supply the City with information on various makes and models of Firefighter Bunker Gear and to identify qualified vendors who would like to participate in the Dayton Fire Department’s (“DFD”) Wear-Test trial period.

### 2.02 BACKGROUND INFORMATION.

The DFD employs approximately 260 fire suppression personnel that respond to approximately 800 fire incidents per year. In an effort to increase the safety of its personnel, DFD is continuously researching new products that promote this effort.

### 2.03 SCOPE OF WORK / PROJECT REQUIREMENTS.

The DFD will conduct a wear-test trial period for all participating and qualified makes of bunker gear. DFD requires at least four (4) full sets of bunker gear (including helmet, full-drape hood, coat, pants, gloves, and boots) from each manufacturer. Please contact DFD’s Lieutenant Eric Sylwestrak at (937) 333-4530 to make arrangements to obtain measurements needed for the testing gear. All gear provided must meet or exceed all applicable NFPA standards of the latest edition, using the specifications provided as a guideline of preference.

\*Bunker Gear should be delivered no later than 2:00 P.M. local (Dayton OH) time on September 25, 2019. Custom gear measurement shall be performed in a timely manner allowing for the September 25, 2019 delivery date.

The Wear-Test Trial period will last at least 14 calendar days, beginning as soon as is practical after the test gear is received. Testing will consist of but not limited to a ladder raise, advancing a hose line, a SCBA and entanglement course and a live fire evolution. These events will be used to evaluate the fit and protection of the garments being tested. Failure to provide test gear prior to deadline will result in exclusion from further consideration. DFD will retain the gear provided, regardless of wear-test results, bid results, or bid award.

### 2.04 PRICING STRUCTURE.

The City of Dayton is seeking a firm price agreement for Fire Fighter Bunker Gear and other related items for the period January 1, 2020 through December 31, 2020 with the possible option to renew for an additional four, 12-month periods from January 1, 2021 through December 31, 2023. Items shall include, but are not limited to, helmets, hoods, gloves, footwear, pants and coats. Gear and related items shall be consistent with the City’s specification and meets the criteria for NFPA 1971 and beyond, Standard on Protective Ensembles for Structural Firefighting.

Prices proposed will remain firm for acceptance within **180** calendar days after the RFP closing date.

### Complete Exhibit D – Proposed Costs

## SECTION 3 – REQUIREMENTS AND CONDITIONS FOR ALL PROPOSERS

**3.01 TAX EXEMPTION.** All items purchased under this contract will be exempt from the State of Ohio Sales Tax as provided for in Section 5739-02(b)(1) of the Revised Code of Ohio, and will be exempt from the State of Ohio Use Tax, Section 5741.02(C)(2). Blanket Certification of Exemption Forms will be furnished to the Proposer by the Division of Purchasing.

**3.02 PROPOSER AFFIDAVIT.** If the successful proposer should be a corporation not incorporated under the laws of the State of Ohio, a certificate from the Secretary of State showing the rights of the successful proposer to do business in the State of Ohio shall be furnished. Each proposer is required to submit with their bid, an Affidavit stating that neither the proposer nor agents thereof, nor any other party of the proposer has paid or agreed to pay directly or indirectly, any person, firm or corporation, any money or valuable consideration for assistance in procuring or attempting to procure the contract herein referred to, and further agreeing that no such money or reward will hereafter be paid.

**3.03 PROCUREMENT ENHANCEMENT PROGRAM.** It is the policy of the City to promote full and equal business opportunity to all persons doing business with the City. The City must ensure that businesses seeking to participate in contracting and procurement activities with the City are not prevented from doing so on the basis of the race or gender of their owners. The City is committed to ensuring that it is not engaged in passive participation in any form of discrimination. (R.C.G.O. Section 35.32) It is the City of Dayton's position to encourage the greatest participation possible on all projects connected with any aspect of the City's auspices through the Procurement Enhancement Program (PEP). All contractors are encouraged to review the list of Minority, Women and Small Businesses at [www.daytonohio.gov/departments/hrc](http://www.daytonohio.gov/departments/hrc) for certified subcontractors.

**3.04 PROPOSER'S FINANCIAL OBLIGATION TO THE CITY.** No bid may be accepted or contract awarded to any person, firm or corporation that is in arrears or in default to the City, or that is a defaulter of surety or otherwise upon any obligation to the City, or has failed to perform faithfully any previous contract with the City.

**3.05 PROPOSER'S INCURRED COSTS.** Each proposer shall be responsible for all costs incurred in preparing a response to this RFP. All materials and documents submitted by the proposer in response to this RFP shall become the property of the City, and shall not be returned. Respondents selected for further negotiations, as well as the proposer ultimately selected to enter into a contractual agreement with the City, shall be responsible for all costs incurred by it during negotiations.

**3.06 AFFIRMATIVE ACTION ASSURANCE (AAA).** The selected Consultant must file an Affirmative Action Assurance form ("AAA Form") with the City's Human Relations Council (HRC) and obtain approval from HRC to do business with the City. You may contact the HRC for the Rules and Regulations, and the AAA Form required of vendors of the City, at:

Human Relations Council  
371 West Second Street, Suite 100  
Dayton, Ohio 45402  
(937) 333-1413 (Office)  
(937) 222-4589 (Fax)

Failure to maintain a current AAA Form on file with the HRC may result in termination of the contract and/or denial of future contract awards from the City. The AAA Form must be filed annually.

**3.07 STANDARD AGREEMENT TERMS FOR GOODS AND SERVICES – The following are standard terms which are subject to change by the City prior to the award of the contract:**

1. 1. **BILLING:** All goods or services must be billed to THE CITY OF DAYTON, OHIO and at prices not exceeding those stated on the Purchase Order. If prices or terms do not agree with quotation, notify the City of Dayton, Division of Procurement, immediately.

2. **INVOICE:** All invoices must be in duplicate and must be forwarded to the City of Dayton at the address shown on the Purchase Order. Each Purchase Order must be invoiced separately. Invoices for partial shipments will be accepted; final invoice must indicate completion of order.
3. **CASH DISCOUNTS:** All cash discount terms will be effective from date of actual receipt and acceptance of the items purchased, or from receipt of correct and acceptable invoice, whichever is later.
4. **PAYMENTS:** With the award this contract, the successful vendor(s) will be required to receive their payment(s) electronically via a virtual credit card by the City's contracted provider effective 01/01/2019. All fees associated with acceptance of the payment will be the responsibility of the vendor.
5. **F.O.B.:** Destination (City of Dayton, Ohio) with delivery to the specified Department at the specified street address. **NO COLLECT FREIGHT SHIPMENTS WILL BE ACCEPTED.** All quotations are solicited won a delivered price basis. When, in rare instances, the City accepts a quotation not including all shipping charges, your claim for reimbursement must be itemized on the invoice and supported with a copy of the original freight bill.
6. **TAXES:** The City of Dayton is exempt from payment of Federal excise taxes and State retail sales taxes. The City of Dayton's Federal Exemption Certificate is No. 31-73- 0546K and Ohio Vendor's License No. is 57-15847. The Vendor is responsible for all Social Security taxes and Workers' Compensation contributions for the Vendor or any of the Vendor's employees.
7. **DELIVERIES:** All deliveries on this order must be in full accordance with specifications, properly identified with the Purchase Order number, and must not exceed the quantities specified.
8. **CANCELLATION:** The City of Dayton reserves the right to cancel this order by written notice if the Vendor does not fulfill its contractual obligations with respect to timeliness and/or quality.
9. **DEFAULT PROVISIONS:** In case of default by the Vendor, the City of Dayton may procure the items from other sources, and the Vendor shall be responsible for any excess costs occasioned thereby.
10. **NO VERBAL AGREEMENTS:** The City of Dayton will be bound only by the terms and conditions of this order and will not be responsible for verbal agreements made by any other officer or employee of the City of Dayton. The receipt of this purchase order does not indicate an authorization of fulfillment. Confirmation by City personnel must be received as indicated in the purchase order before any orders are placed.
11. **PATENT AND COPYRIGHT INFRINGEMENTS:** It is hereby understood that by acceptance of this order, the Vendor agrees to defend, indemnify, and save harmless the City of Dayton, Ohio, its officers, agents and employees from any and all loss, costs or expense on account of any claim, suit or judgment as a result of, caused by, or incidental to any patent, copyright or trademark infringement and/or royalty, actual or claimed, because of the use or disposition by said City of any article enumerate on this order and sold to said City pursuant to this order.
12. **APPLICABLE LAWS:** The Vendor warrants that the items and their production or completion shall not violate any federal, state or local laws, regulations or orders.
13. **INSPECTION:** The City of Dayton may inspect the items ordered hereunder during their manufacture, construction and/or preparation at reasonable times and shall have the right to inspect such items at the time of their delivery and/or completion.
14. **WARRANTY:** The Vendor warrants all items delivered hereunder to be free from defects of material or workmanship, to be of good quality, and to conform strictly to any specifications, drawings or samples which may have been specified or furnished by the City of Dayton, and the Vendor further warrants that the Vendor will have good title to the items free and clear of all liens and encumbrances and will transfer such title to the City of Dayton. Said warranties shall not negate or limit any implied warranties of merchantability or fitness. This warranty shall survive any inspection, delivery, acceptance or payment by the City of Dayton.
15. **RISK OF LOSS:** Title and risk of loss to and with respect to the items shall remain in the Vendor until the items in a completed state have been delivered to and accepted by the City of Dayton or to an agent or consignee duly designated by the City of Dayton at the location specified on the face hereof, items which are to be shipped shall be shipped F.O.B. destination unless otherwise specified by the City of Dayton. A packing slip must accompany each such shipment and if a shipment is to a consignee or an agent of the City of Dayton, a copy of the packing slip shall be forwarded concurrently to the City of Dayton. If no such packing slip is sent, the count or weight by the City of Dayton or its agent or consignee is agreed to be final and binding on the Vendor with respect to such shipment.
16. **SAVE HARMLESS:** To the fullest extent permitted by law, the Vendor shall protect, defend, indemnify and hold free and harmless the City of Dayton, its agents, consignees, employees, and representatives from any and all claims, damages, losses claims of loss, causes of action, penalties, settlements, costs, liabilities and expenses of any kind, including but not limited to attorney's fees, arising out of any acts or omissions of the Vendor; its officers and employees, including but not limited to temporary employees that the Vendor provides to the City of Dayton who may be trained or controlled by the City of Dayton to any degree; consultants; agents; and, subcontractors of any tier used in any way to provide the goods or services for this

purchase order.

17. **FORCE MAJEURE:** Neither the City nor Vendor shall be considered in default of these Purchase Order Terms and Conditions for delays in performance caused by circumstances beyond the reasonable control of the non-performing party. For purposes of these Terms and Conditions, such circumstances include, but are not limited to: abnormal weather conditions; floods; earthquakes; fire; epidemics; wars, riots, and other civil disturbances; strikes, lockouts, work slowdowns, and other labor disturbances; sabotage; judicial restraint; and inability to procure permits, licenses, or authorization from any local, state, or federal agency for any of the supplies, materials, accesses, or services required to be provided by either the City of Consultant under this Agreement. Should such circumstances occur, the non-performing party shall, within a reasonable time of being prevented from performing, give written notice to the other party describing the circumstances preventing continued performance and the efforts being made to resume performance under this Purchase Order.
18. **INSURANCE:** If requested by the City of Dayton, the Vendor shall maintain policies of liability insurance of such types and such amounts and with such companies as may be designated by the City of Dayton, which policies shall be written so as to protect the City of Dayton and the Vendor from the risks enumerated in Section 15. Such policies of insurance shall not be cancellable except upon thirty (30) days written notice to the City of Dayton and proof of such insurance shall be furnished by the Vendor to the City of Dayton. In addition, such policies shall protect all subcontractors of the Vendor. The Vendor agrees to make prompt written report to the insurance company involved of all accidents, occurrences, injuries or losses which may occur and of any and all claims made against the persons insured under said policies.
19. **SPECIFICATIONS CONFIDENTIAL:** Any specifications, drawing, notes, instructions, engineering notices or technical data referred to in this Purchase Order shall be deemed to be incorporated herein by reference the same as if fully set forth. The City of Dayton shall at all times retain title to all such documents and the Vendor shall not disclose such to any party other than the City of Dayton or a party duly authorized by the City of Dayton. Upon the City of Dayton's request or upon completion and delivery of the items the Vendor shall promptly return all such documents to the City of Dayton.
20. **EXAMINATION OF PREMISES:** If work is to be performed hereunder on the premises of the City of Dayton, the Vendor represents that it has examined the premises and any specifications or other documents furnished in connection with the items and that it has satisfied itself as to the condition of the premises and site and agrees that no allowance shall be made in respect of any error as to such on the part of the Vendor.
21. **CLEANING OF PREMISES:** If work is to be performed hereunder on the premises of the City of Dayton, the Vendor shall at all times keep the premises free from accumulation of waste material or rubbish. At the completion of the items the Vendor shall leave the premises and the items broom-clean.
22. **EQUAL EMPLOYMENT OPPORTUNITY, R.C.G.O. Sec. 35.14:** (a) The Vendor agrees that it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, ancestry, national origin, place of birth, age, marital status, or handicap with respect to employment, upgrading, promotion or transfer, recruitment or recruitment advertising, lay-off, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. (b) It is expressly agreed and understood by Vendor that R.C.G.O. Sec. 35.14 constitutes a material condition of this contract as fully as if specifically rewritten herein and that failure to comply therewith shall constitute a breach thereof entitling the City to terminate the contract at its option.
23. **AGREEMENT TO BE EXCLUSIVE:** This Purchase Order contains the entire agreement between the parties and supersedes all other agreements between them. The parties acknowledge and agree that neither of them has made any representation with respect to the subject matter of this Purchase Order or any representation inducing the execution and delivery of this Purchase Order except such representations as are specifically set forth herein, and each party acknowledges that it has relied on these representations in connection with its dealings with the other.
24. **GOVERNING LAW:** This Purchase Order, the performance under it, and all suits and special proceedings under it shall be construed in accordance with the laws of the State of Ohio. In any action, special proceeding or other proceeding that may be brought arising out of, in connection with, or by reason of this Purchase Order, the laws of the State of Ohio shall be applicable and shall govern to the exclusion of the laws of any other forum, without regard to the jurisdiction in which the action or special proceeding may be heard.
25. **ADDITIONAL RIGHTS:** Any rights or remedies granted to the City of Dayton in any part of this Purchase Order shall not be exclusive of, but shall be in addition to, any other rights or remedies granted in another part of this Purchase Order and any other rights or remedies that the City of Dayton may have at law or in equity in any such instance.
26. **PRODUCT MANUFACTURE LABOR STANDARDS:** Products and services provided for in this Purchase Order cannot be produced under "Sweatshop" Conditions as defined in Informal Resolution No. 301-97 as adopted by the Commission of the City of Dayton. The City of Dayton encourages vendors, contractors,



Enterprise Zone employers and other organization doing business with the City of Dayton to use their best efforts to pay a living wage to their employees in accordance with Informal Resolution No. 321-98 as adopted by the Commission of the City of Dayton.

27. CONTRACTOR: Contractor acknowledges its employees are not public employees for purpose for Ohio Public Employees Retirement System (“OPERS”) membership.



City of Dayton, Ohio  
Departments of Fire & Aviation  
FIRE FIGHTER BUNKER GEAR  
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## EXHIBIT A – LETTER OF TRANSMITTAL

The undersigned hereby certifies that items furnished as a result of this proposal will be in full accordance with the City of Dayton specification applying thereto unless exception are stated above.

The Proposer's name and address exactly as it would appear in a contract:

Entity Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Proposer's Phone Number: \_\_\_\_\_

Proposer's Fax Number: \_\_\_\_\_

Proposer's E-mail Address: \_\_\_\_\_

**Form of Ownership**    ☐ **Sole Proprietorship**    ☐ **Franchise**    ☐ **Partnership**    ☐ **Corporation**  
☐ **Joint Venture**    ☐ **LLC**    ☐ **Other (Specify):** \_\_\_\_\_

If a corporation, state of incorporation: \_\_\_\_\_

Federal Identification Number (or SSN if sole proprietorship): \_\_\_\_\_

**Please include your IRS Form W9 with your proposal.**

I certify the proposing entity complies with City of Dayton Ordinance #30829-09 and the City's Revised Code of General Ordinances Section 35.70 through 35.74 regarding Living Wages.    ☐ Yes    ☐ No

SIGNATURE: \_\_\_\_\_

PRINTED NAME AND TITLE: \_\_\_\_\_

By signing this page, you state that you are an authorized representative, and have reviewed and are presenting this proposal on behalf of your business entity. Please continue completing this exhibit on the next page.

**EXHIBIT A – LETTER OF TRANSMITTAL (continued)**

**COMPANY PROFILE AND BACKGROUND**

Name of Proposing Company: \_\_\_\_\_

Company's Primary Business - State the proposer's primary business, the number of years in the industry, and the number of employees assigned to these related activities:

Primary Business	# of Years	# of Employees Assigned

If a corporation, state of incorporation: \_\_\_\_\_

Current Pending Lawsuits: Please provide any and all suits either with the City of Dayton or any other Municipalities and Government Agencies; including, but not limited to Federal, State, Local or other Municipalities and Governmental Agencies:

--

Local Office of Proposer: Office nearest to Dayton, Ohio: \_\_\_\_\_

Federal Identification Number (or SSN if sole proprietorship):      ##-#####  
\_\_\_\_\_

Key Personnel:

Name	Title	Contact Information: Mailing address, telephone number, fax number and email address	Designated as Primary Contact for the City of Dayton? YES / NO



City of Dayton, Ohio  
Departments of Fire & Aviation  
FIRE FIGHTER BUNKER GEAR  
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## EXHIBIT B – REFERENCES FOR PROPOSING COMPANY

Name of Proposing Company: \_\_\_\_\_

**List company names, addresses, and telephone numbers for at least three references presently or previously served by your Company for RFP No. 19016FDOP. Do not use the City of Dayton as a reference.**

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_



City of Dayton, Ohio  
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**EXHIBIT C – PRODUCT MANUFACTURE LABOR STANDARDS: VENDOR COMPLIANCE FORM**

By informal resolution 301-97, the City of Dayton is prohibited from purchasing, leasing, renting or taking on consignment goods for use or for resale by the City which were produced under sweatshop conditions.

The City of Dayton requests the following information concerning the products you intend to provide to the City as a result of this bid. This information will allow us to determine your products' compliance with the standards outlined in informal resolutions 301-97.

We require that you make a good faith effort to ascertain the following about the factories which manufacture the products you intend to supply to the City and that you make information available to us for our verification of your claims.

Child Labor. The factory or producer does not employ anybody younger than the legal age as established by the jurisdiction in which such factory or producer is located for children to work or participate in the production.

Forced Labor. The factory or producer does not use forced labor of any kind-prison labor, indentured labor or bonded labor. However, goods produced by prisoners and/or patients as part of a formal rehabilitation or treatment program shall not be considered "forced labor" under the terms of this section.

Wages and Benefits. The factory or producer pays and/or provides at least the minimum wages and/or benefits as required by law in the jurisdiction in which the factory or producer is located.

Hours of Work. Employees are not required to work more hours than the maximum allowed by law for the jurisdiction in which the factory or producer is located.

Worker Rights. The factory or producer makes available to its employees such rights and procedures as required by law for the jurisdiction in which the factory or producer is located.

Health and Safety. The factory or producer provides at least the minimum safe and healthy working environment as required by law for the jurisdiction in which the factory or producer is located.

Notice to Employees. The factory or producer provides any and all applicable notices to its workers as required by law for the jurisdiction in which the factory or producer is located.

This compliance form must be submitted with your bid. If at any time your products are found to be out of compliance with these standards, or if you refuse to provide information to the City for our verification of compliance, the City reserves the right to terminate contracts for those products.

City of Dayton Ref. No.: \_\_\_\_\_  
Bidding Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Signature/Title: \_\_\_\_\_  
Federal I.D.#: \_\_\_\_\_  
Phone No.: \_\_\_\_\_  
FaxNo.: \_\_\_\_\_



City of Dayton, Ohio  
Departments of Fire & Aviation  
FIRE FIGHTER BUNKER GEAR  
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**EXHIBIT D- BUSINESS INCOME TAX QUESTIONNAIRE**

**Business Income Tax Questionnaire**

The following information is required to determine your City of Dayton, Ohio income tax liability, if any, and to set up your account if required.



**Type of Tax Filing: (check all that apply)**

1. ☐ Employee Withholding FEIN # \_\_\_\_\_
2. ☐ Corporate Earnings FEIN # \_\_\_\_\_
3. ☐ Individual Ownership Earnings SSN # \_\_\_\_\_
4. ☐ Partnership Earnings FEIN # \_\_\_\_\_

Company Name \_\_\_\_\_ Phone # \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ St. \_\_\_\_\_ Zip \_\_\_\_\_

Local Business Address \_\_\_\_\_ City \_\_\_\_\_ St. \_\_\_\_\_ Zip \_\_\_\_\_

Check the jurisdictions that we administer that you operate in:

☐ Dayton City Limits ☐ Dayton Wright Brothers Airport ☐ Dayton International Airport ☐ NONE

Date Business Started in Our Taxing Jurisdiction \_\_\_\_\_

Your Accounting Period? Calendar Year \_\_\_\_\_ or Fiscal Year ending on \_\_\_\_\_

**Withholding Information \*Quarterly Withholding cannot exceed \$600.00**

■ Do you have employees? Yes ☐ or No ☐ Date First Employee Started Working in Our Jurisdiction \_\_\_\_\_

■ Do you submit withholdings QUARTERLY\* or MONTHLY? \_\_\_\_\_

■ Is this a courtesy withholding for your employees who are residents of the above cities only? Yes ☐ or No ☐

Do you rent or sublease property or space in the Dayton jurisdiction to another business or individual? Yes ☐ No ☐

If so list Names, Addresses, and Tax ID below. If Yes, do they have employees working at that location? Yes ☐ No ☐

Do you use Subcontractors? Yes ☐ No ☐ If so list Names, Addresses, and FEIN or Social Security Numbers below.

If you have filed returns with our office before, show Name and Tax ID #s used, and for what tax years you filed.

Full name of Owner of Company \_\_\_\_\_

If this is a change of ownership, please provide the date of change, the name, address, and phone number of former owner

If you are not liable to pay taxes in our jurisdiction, please explain why.

Signature \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Thank you for your cooperation in this request. For more tax information is available at [www.daytonohio.gov](http://www.daytonohio.gov)

Please return by MAIL or by FAX to: City of Dayton, Division of Revenue & Taxation, 101 West 3rd Street, P.O. Box 2806, Dayton, Ohio 45401  
(937) 333-3500 ~ Fax (937) 333-4280

CS-25c



City of Dayton, Ohio  
Departments of Fire & Aviation  
FIRE FIGHTER BUNKER GEAR  
RFP No. 19016FDOP  
August 2019

**EXHIBIT E – PROPOSED PRICING**

Name of Proposing Company: \_\_\_\_\_

**Note: FOB Destination; all prices bid to the City shall include all fees of transportation including inside delivery.**

ITEM NO.	U/M	DESCRIPTION	UNIT COST
-------------	-----	-------------	--------------

**STRUCTUAL FIREFIGHTING GEAR**

1.	Each	Coat per enclosed specifications or acceptable equal	\$ _____
2.	Each	Pants per enclosed specifications or acceptable equal	\$ _____
3.	Each	Wristlet Style Gloves per enclosed specifications or acceptable equal	\$ _____
4.	Each	Gauntlet Style Gloves per enclosed specifications or acceptable equal	\$ _____
4.	Each	Hood per enclosed specifications or acceptable equal	\$ _____
5.	Each	Helmet per enclosed specifications or acceptable equal	\$ _____
6.	Pair	Honeywell PRO Series 5006 Boots per enclosed specifications or acceptable equal	\$ _____
7.	Pair	Honeywell PRO Series 5050 Boots per enclosed specifications or acceptable equal	\$ _____

Name of Proposing Company: \_\_\_\_\_  
City of Dayton, Ohio  
Request for Proposal



City of Dayton, Ohio  
Departments of Fire & Aviation  
Fire Fighter Bunker Gear  
RFP No. 19016FDOP  
August 2019

**EXHIBIT E – PROPOSED PRICING (CONTINUED)**

- Option to renew any resulting price agreement at the same rates, terms, and conditions for additional 12-month period (from January 1, 2020 through December 31, 2020) at the City's discretion?  
Yes [ ☐ ] No [ ☐ ] If appropriate, state maximum percent of increase (based on pricing as of Sept 25, 2019) to retain this option is \_\_\_\_\_%.
  
- Option to renew any resulting price agreement at the same rates, terms, and conditions for additional 12-month period (from January 1, 2021 through December 31, 2021) at the City's discretion?  
Yes [ ☐ ] No [ ☐ ] If appropriate, state maximum percent of increase (based on pricing as of Sept 25, 2019) to retain this option is \_\_\_\_\_%.
  
- Option to renew any resulting price agreement at the same rates, terms, and conditions for additional 12-month period (from January 1, 2022 through December 31, 2022) at the City's discretion?  
Yes [ ☐ ] No [ ☐ ] If appropriate, state maximum percent of increase (based on pricing as of Sept 25, 2019) to retain this option is \_\_\_\_\_%.
  
- Option to renew any resulting price agreement at the same rates, terms, and conditions for additional 12-month period (from January 1, 2023 through December 31, 2023) at the City's discretion?  
Yes [ ☐ ] No [ ☐ ] If appropriate, state maximum percent of increase (based on pricing as of Sept 25, 2019) to retain this option is \_\_\_\_\_%.

The City of Dayton shall receive a Discount of \_\_\_\_\_% off list pricing for \_\_\_\_\_ and related supplies not listed herein.





City of Dayton, Ohio  
Departments of Fire & Aviation  
Fire Fighter Bunker Gear  
RFP No. 19016FDOP  
August 2019

## EXHIBIT F – SPECIFICATIONS

### 1. Protective Clothing for Structural Firefighting Coat and Pant

#### 1.1.0 PURPOSE AND SCOPE

This specification defines the minimum requirements for structural firefighter personal protective equipment (PPE) providing limited protection as defined by NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, Latest Edition. In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Every exception to specifications must be clearly spelled out at the time of the proposal.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 1.2.0 UNITS OF MEASURE

Current NFPA standards applicable to this product specification express values for measurement requirements in SI (metric-based) units, followed by US (inch-pound) approximate equivalents in parentheses. For the convenience of the fire department, this product specification *reverses the order* and presents the more familiar US approximation first, followed by the SI requirement in parentheses.

#### 1.3.0 CERTIFICATION

The manufacturer must certify that the garments proposed meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL, SEI or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

The manufacturer shall be registered to ISO 9001, *Quality Management Systems – Requirements*, 2015.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 1.4.0 WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 1.5.0 PRODUCT COUNTRY OF ORIGIN

For liability reasons, garments must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

**1.6.0 LABELING REQUIREMENTS**

Labels shall be permanently and integrally printed onto materials that meet all the requirements for labels of NFPA 1971. The garment shall be clearly labeled to fully identify the material content of all three layers: outer shell, moisture barrier and thermal liner.

In addition, each separable outer shell component shall be labeled in an obvious location including the size, date of manufacturer and an individualized serial number and bar code that matches the corresponding garment liner.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

**1.7.0 CARE INSTRUCTIONS**

The manufacturer shall provide a user information guide for the garments, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each garment along with a specification summary sheet describing garment custom options, sizing and production details. This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference same.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

**1.8.0 TRACEABILITY PROGRAM**

The manufacturer shall have in place a computer maintained traceability program that provides for the assignment of a production control number to each garment. The traceability program must be capable of tracing the garment through production, from the bolts of cloth used in all three layers of the garment composite construction, to the assignment of the garment to the individual firefighter. This production control number shall be visibly located on the garment label and on other protected areas of garment.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

**1.9.0 PATENT CONSIDERATIONS**

The Proposer, without exception, shall indemnify and save harmless the Purchaser and its employees from liability of any nature and kind, including cost and expenses for or on account of any copyrighted, patented or un-patented invention, process, or article manufactured or used in the performance of the contract, including its use by the Purchaser. If the Proposer uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the proposed prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

**1.10.0 SIZING**

To ensure a perfect fit, sizing shall be determined by actual measurements taken of the firefighter by a trained measurement specialist with sizing try-ons used as measurement confirmation. Sizing measurements shall be taken according to a schedule and location(s) mutually agreed between the manufacturer and the department.

Garments shall be available in custom sizing as follows: coat chest in 2-inch (5.1 cm) increments, coat sleeve in 0.5-inch (1.3 cm) increments, coat back length in 1-inch (2.5 cm) increments, pant waist in 2-inch (5.1 cm) increments and pant inseam in 1-inch (2.5 cm) increments. A full range of women's

sizing, on women's patterns, must also be available. Each sleeve and inseam length shall provide 100% gradation from shoulder to wrist, and from hip to ankle, to provide proper fit for individual arm and leg lengths. Pattern tailoring to custom-fit neck, bicep, hip/seat and thigh circumferences must also be provided, when needed, at no additional charge. Neither Small-Medium-Large-Extra Large sizing nor women's garments cut to men's patterning are considered acceptable, since proper fit facilitates mobility and minimizes stress.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.11.0 SELF-BINDING

Liner and moisture barrier shall be stitched together and turned, then topstitched, to create a self-binding edge. The extra bulk of separate binding material is specifically prohibited.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.12.0 THREAD

All thread used in structural seams shall be Nomex® of minimum Tex size T-70 or acceptable equal. Light colored garments and trim areas shall feature yellow thread. Black and dark garments shall feature black thread. Tan or bronze colored garments shall feature tan thread.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.13.0 POCKETS

When exterior pockets are specified, the following requirements shall apply to all such custom option specified exterior pockets:

All pockets and flaps shall be reinforced at the top corners with bar tack stitching.

All pockets shall be reinforced with an extra layer of NFPA-certified outer shell, moisture barrier, or other NFPA-certified reinforcement material for extra durability. The exact location of the reinforcements shall be identified in the custom options section(s).

All pockets shall have a means to drain water and shall have a means of closure.

All pocket closures shall be made either with hook and loop fastener tape a minimum of 1.5 inches (3.8 cm) wide, with a flap, or with snaps. The specific placement of the closure system shall be outlined in the custom options sections.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.14.0 TAILORED GRADING OF GARMENT LININGS

All garment layers and Cold Weather Accessory Linings shall be graduated in size to fit within in each other in the overall composite without causing bunching or binding when the garment is worn.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.15.0 POINTS OF STRESS

All points of stress shall be reinforced with sturdy bartacks. Rivets are not acceptable because of their potential for rust and electrical or heat conduction.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.16.0 ASSET TRACKING SERVICES

The manufacturer shall provide a Windows-compatible software program for the tracking of care, cleaning and maintenance of the department's PPE. This software program will be capable of tracking current

inventory as well as exporting data in a universally transferrable format.

This tracking program shall meet or exceed all record-keeping requirements of standard NFPA 1851, *Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles*, Latest Edition

Labels on each separable part of the garment shall include a standard style interleaved 2 of 5 barcode containing (at a minimum) an individualized serial number for asset tracking purposes.

The manufacturer must be capable of providing onsite or internet training to department personnel who are involved with the daily use of this tracking program, and this service will be included at proposer's expense.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.17.0 REPAIRS AND ALTERATION SUPPORT

The manufacturer shall furnish, free of charge, reasonable quantities of NFPA 1971 -certified thread, materials and other supplies to allow the department to manage its own ongoing internal maintenance efforts. Also, the manufacturer shall provide on call at no charge, during normal business hours, a liaison for the repair department to assist the Fire Department on a telephone consultation basis, on all maintenance or repair questions that might arise. The manufacturer will provide training and certification to Fire Department selected personnel to perform general repairs and services. Additionally, the manufacturer shall agree to expedite, on its own cost-only basis, all repairs that must be performed at the manufacturer's plant, rather than in department, over the life of the contract.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.18.0 HIGH TEMPERATURE THERMAL INSULATING MATERIALS REQUIREMENT

The complete protective garment ensemble consisting of outer shell, moisture barrier, and thermal liner shall have an average Thermal Protective Performance of not less than 36. Because thermally stable materials are essential to maximizing protective performance in firefighters' PPE, and because NFPA only states "minimum" performance requirements, all thermal liner or thermal enhancing materials used in the garments shall also meet the following criteria after the 500 degree F oven test:

- 1) Material shall remain intact and flexible
- 2) No portion of the material shall crack, crumble or flake

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 1.19.0 BREATHABILITY REQUIREMENT

Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom option sections, all materials fabrics and reinforcements used in the construction of the garments shall be breathable and all moisture barrier material must be as specified in the Materials Section.

The breathability requirement includes but is not limited to: collar, chinstrap, storm shield, fly, water wells, front coat facings, and reinforcement cushioning where applicable.

Areas where non-breathability is allowed (absent Custom Option specifications): trim or other items placed externally on the arms that might need extra material to pass NFPA required Stored Energy Testing, hook and loop fastening, hardware or hardware backing, and pocket linings where used exterior to the outer shell.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.20.0 CONDUCTIVE AND COMPRESSIVE HEAT RESISTANCE (CCHR)**

Using breathable materials as outlined in the section titled Breathable Materials, there shall be: A minimum area of 4" x 4" (10.2 cm x 10.2 cm) at the shoulders and elbows that provide a minimum of 25 CCHR at 2 psi. with a minimum 6" x 6" (15.2 cm x 15.2 cm) area at the knees that provide 25 CCHR at 8 psi.

In all three of these compression areas at least a portion of the protective area shall be made from high temperature fiber based materials sewn to the thermal liner on the inside of the liner toward the moisture barrier.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.21.0 SEAM PROTECTION AT CUFFS**

At the coat and pant cuff Major A seams, the reflective trim shall stop just before the folding of the full field seam and for additional abrasion protection be covered by a sewn on strip of polymer coated Kevlar material laid on top of the Major A seam and covering each end of the trim.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.22.0 APPLICABLE DOCUMENTS**

The following standards in their active versions on the date of the submitted proposal shall form a part of this specification to the extent specified herein.

<u>STANDARD</u>	<u>TITLE</u>
ASTM D 6193-97	Standard Practice for Stitches and Seams
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

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**COAT**

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To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

**1.23.0 DESIGN CONCEPT (STYLING)**

The standard coat design shall be 6-inches (15.2 cm) longer at the rear hem than at the front hem and provide continuous and unbroken moisture barrier and thermal liner protection from the collar seam to the hem at the bottom of the coat tail. Each coat length shall be determined by each individual's torso length to provide the coat-to-pant interface as defined by NFPA 1500. Coat design must interface properly with standard waist high bunker pants. To facilitate various body types the front to rear length differential shall be made available in 3-inch (7.5cm), 4-inch (10.0cm), 5-inch (12.5cm and 6-inch (15.0cm) "Tail Drops".

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.24.0 PATTERNING CONCEPT

Garments shall feature a tailored three-piece body (with one-piece back) and one-piece, set-in sleeve construction throughout the outer shell, moisture barrier and thermal liner layers. One-piece garment body (either all layers or some layers) will not be considered acceptable since they cannot be tailored to hard-to-fit personnel. Similarly, garments with seams in mid-back are not considered acceptable because of backbone irritation that can occur with SCBA use. To facilitate individual tailoring needs, the major A & B seams joining the one-piece back to the right and the left front body panels (outer shell and all interior layers) shall be located at the most lateral position when the coat is laid flat for inspection.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.25.0 PATTERNING REQUIREMENTS

To assure maximum freedom of movement and reduce kinetic resistance with minimum garment weight and bulk, coat patterning shall include the following features:

- Degree of slope on shoulders shall be no more than 20%.
- Hydraulic Butterfly sleeve patterning having built-in underarm bellow with 85-degree Lift Up
- Release Action shall be provided to minimize coat hem rise.
- Sleeve attachment shall minimize shoulder lift and allow a full 360 degrees freedom of movement.
- Coat hem rise with overhead reach of both arms not to exceed 4-inch (10.2-cm) maximal extension on properly fitted garments.
- Shell-and-liner retraction at the cuff shall not exceed 1 inch (2.5 cm) when both arms are raised overhead. This helps eliminate wrist exposure.
- 10-inch (25.4-cm) chest over-sizing shall be provided.
- Coat sweep measurements must be consistent with the chest over-size at the hem.
- Reach when measured from cuff to cuff, with coat lying flat, and standard length sleeves extended to each side, shall be provided as detailed below.
- An alteration point at the hem that during manufacture allows the sweep dimension to be adjustable in two-inch (5.0cm) increments

Chest Size	Standard Reach
40 in ( 101.6 cm)	66 in ( 167.6 cm)
42 in ( 106.7 cm)	67 in ( 170.2 cm)
44 in ( 111.8 cm)	68 in ( 172.7 cm)
46 in ( 116.8 cm)	68 in ( 172.7 cm)

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.26.0 DRAG RESCUE DEVICE (DRD)

Manufacturer shall supply an NFPA required and certified Drag Rescue Device with each coat. Each strap will be properly labeled with the chest size(s) the Rescue Strap is designed to fit.

Rescue Strap shall be designed in a fashion that it functionally provides a dynamic and articulated action and to eliminate excess strapping material hanging down the back when installed between the garment's liner and outer shell.

The device shall be constructed using two components: a 1.75" (4.45 cm) Kevlar webbing grab handle; and a free-floating loop of Kevlar rope to go around each of the wearer's arms/shoulder.

The grab loop shall extend upward and pass through a tunnel of outer shell and pass out through a reinforced slot in the coat outer shell just below the center rear of the collar seam. . The protruding grab loop shall then fold back down and be stored by hook and loop fastener.

The end of the garb loop shall be covered with an outer shell flap sewn below the held in place with hook & loop fastener to reduce the chances of snagging the grab loop by accident.

The Grab Handle shall be constructed of soft and pliable Kevlar webbing meeting the following specifications:

Description	100% Kevlar Double Plain Weave
Width	1.75" (4.45 dm)
Thickness	0.064" $\pm$ 0.010" (.163 cm $\pm$ .0254 cm)
Tensile	5,000 lb minimum (22.24 kN)

To facilitate comfort and safety the free-floating loop shall be constructed of soft and pliable Kevlar rope meeting the following specifications:

Description	100% Kevlar Tubular Plain Weave - Natural
Width	.038" (.097 cm)
Thickness	0.144" $\pm$ 0.005" (.366 cm $\pm$ .013 cm)
Tensile	3500 lb minimum (15.57 kN)

Rescue Strap shall be sewn with Kevlar thread.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.27.0 LINER ATTACHMENT

The completed liner-moisture barrier assembly shall attach by means of four (4) evenly spaced glove snaps to each outer shell front facing to reduce weight, bulk and stiffness. To provide continuous moisture and pathogen protection at the front, the liner shall be positioned so it is sandwiched between the coat front facing and a breathable pathogen shield. The use of zippers or hook and loop fasteners in this area is not allowed due to their added weight, bulk and stiffness.

Liner sleeves shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware.

To provide continuous moisture protection and pathogen protection at the neck, the liner shall be positioned so that it is sandwiched between an outer-facing pathogen shield and an inside facing of the specified outer shell material.

Attachment at the neck shall be by means of four (4) glove straps that penetrate only the layer of the attachment strip facing towards the liner, so that metal contact at a wearer's neckline is completely eliminated.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.28.0 COAT CERTIFICATION LABEL ON LINER

The coat certification label on the liner shall be affixed to the inside right body panel of the liner in a fashion to provide an inside liner pocket.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.29.0 COAT CERTIFICATION LABEL ON SHELL

The coat label on the shell shall be affixed in a conspicuous location once the liner is removed.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.30.0 COLLAR**

The collar shall be of layered construction, consisting of a layer of waterproof moisture barrier and a layer of NFPA 1971-certified insulating material, sandwiched between two (2) layers of specified outer shell material. NFPA compliant collars shall be at least 3 inches (7.6 cm) high while CGSB compliant collars shall be at least 4 inches (10.2 cm) high. The design shall incorporate in its patterning a natural contour that will allow proper fit and performance in the standing (upright) or stowed position.

There shall be no vertical or horizontal seams or stitching in the body of the collar. The left outside of the collar shall have a sewn piece of 2-inch x 2-inch (5.0-cm x 5.0-cm) hook fastener tape for chinstrap-to-collar closure. The fastener tape shall be located rear ward far enough to allow for the location of a forward mounted microphone tab if so desired. Each collar shall be graded to individual coat sizes.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.31.0 CHIN STRAP**

The chinstrap shall be of layered construction identical to that of the collar configuration described in the previous paragraphs. Chinstrap shall be of a crescent shaped design with *minimum dimensions of*: 9 inches (22.5 cm) long across the top corners, 10.5 inches (26 cm) long across the bottom corners, and 3.5 inches (8.75 cm) in vertical height, measured at the center. The leading underside edge of the chinstrap shall have a 4.0-inch-wide (3.8 cm-wide) horizontal strip of loop fastener tape to ensure an adequately adjustable closure and to ensure passage of the Whole Garment Liquid Penetration Test.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.32.0 HANG-UP LOOP**

An 80-pound (36.3 kg) tear strength hang-up loop shall be provided at the interior collar seam. The loop shall be constructed of triple layers of the specified outer shell material, lock stitched to the coat. Webbing is not acceptable.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.33.0 SLEEVES**

To prevent stove-piping the sleeves shall be individually graded by coat size and sleeve length. For maximum freedom, the sleeve design shall feature extra full cut one-piece set-in sleeves with built-in bellows. To reduce the chances of possible top seam failure in that high thermal exposure area, the sleeve Major seams shall follow the underside of the arm and shall not cross over the outside of the elbow joint. Sleeve seam and sleeve attachment to coat body in all layers shall be 100% double fold and double stitched.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**1.34.0 INNER WRISTLET & WATERWELL**

Every coat shall feature a minimum 4.5-inch (11.4-cm) long, double-layer knit inner wristlets protected by a flame-resistant and moisture-resistant inner water well. The inner wristlet shall be sewn to the thermal liner sleeve end (not to the outer shell). The specified moisture barrier shall form an inner water well with an elastic gather sewn to the moisture barrier sleeve end.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**



### 1.35.0 EXTERNAL WRISTLET

Every coat shall feature a 2.5-inch (6.4 cm) long knit outer wristlet, which shall be mounted to the end of each outer shell sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 1.36.0 FRONT CLOSURE PROTECTIVE OVERLAP

Two-inch-wide (5.1 cm-wide) panels of breathable moisture/ pathogen barrier and specified thermal liner materials shall be provided at coat front closure facings to preclude any type of break in the protective envelope. The entire circumference of a closed coat shall consist of specified shell, moisture barrier and thermal liner materials.

An additional layer of breathable moisture/ pathogen barrier material shall be sewn between the 2-inch-wide (5.1 cm-wide) panels and outer shell coat body for the entire length of coat front in a fashion to prevent liquid entry during the NFPA 1971 Whole Garment Liquid Penetration Test.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 1.37.0 COMPOSITE MATERIALS

#### 1.37.1 OUTER SHELL

PBI Kombat Flex, 6.9 oz; Twill Weave; 70% Spun / 30% Filament Matrix – Bronze, Black or acceptable equal

#### 1.37.2 THERMAL LINING

7.7 oz; spun Meta Aramid 75% and Filament 25% 1 layer of 2.3oz. and 1 layer of 1.5oz. Meta Aramid/Para Aramid spunlace with a 3D pattern or acceptable equal.

#### 1.37.3 MOISTURE BARRIER

Stedair 4000 Nomex IIIA woven substrate laminated to a breathable ePTFE membrane, 5.5 oz or acceptable equal

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 1.38.0 COAT CUSTOM OPTIONS TO BE PROVIDED

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised.

- \*\*\*NFPA 1971, 2018 Edition Construction and Labeling\*\*\*
- Inspection Port Liner
- Liner Detachable
- Liner Label Pocket
- Take Up Straps Placed Above Pockets
- Trim - (1) NFPA -lime 2-tone Oralite Brilliance (3")
- Back Patch - Gemini XT - Bronze
- 1 -3" sewn letter -lime Reflexlite Brilliance  
    < DAYTON >  
    < FIRE >
- Hem Patch

Name of Proposing Company: \_\_\_\_\_  
City of Dayton, Ohio  
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- LAST NAME (1st INITIAL when specified) - avg. 7 - 2" sewn letters -lime Brilliance
- With ability to add hook and loop interface and snaps at all corners for securing Hem Patch
- 1 -2" sewn letter - lime Reflexlite - right chest  
< D F D > - no periods - Patch to be 2.5" x 5
- Comfort Chinstrap
- 2" Velcro/Zipper coat closure
- Dead Air Panels - 2 Back Panels Dead Air Panels Extended Forearm Dead Air
- Shingle Cuffs
- Mic Tab - left chest - 0.5" x 2"
- Mic Tab - - right chest - 0.5" x 2"
- Place directly above the chest trim
- Large Hook on a Patch w/Velcro Strap - on shield (storm flap)
- Radio Pocket - left chest - 7 x 3.5 x 2
- Double Notch Flap - Left and Right - left chest
- Sub Wristlets - Long with tabs - Nomex

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

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PANT

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To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

#### 1.39.0 DESIGN CONCEPT (STYLING)

The pant shall be of a traditional waist-high-only design to facilitate full torso ventilation of front, rear and sides of trunk for maximum body cooling effect to help minimize firefighter heat stress. For this reason, other than waist-high pants shall not be considered acceptable or "equal," since additional trunk wrapping traps heat and moisture, increasing heat stress buildup while also creating mechanical resistance when covering the natural torso flexion point of the waist.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.40.0 PATTERNING CONCEPT

Garments shall feature a tailored four-piece body plus a one-piece, over-sized crotch diamond pattern in the outer shell, moisture barrier and thermal liner.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 1.41.0 PATTERNING REQUIREMENTS

To assure maximum freedom of movement and reduced kinetic resistance with minimum garment weight and bulk, the pants patterning shall:

- Incorporate hydraulic, swivel action leg-to-torso interfaces.
- Incorporate an oversized diamond-shaped crotch insert, graded according to size, for maximum action stride, optimum stepping reach and no "in-crotch" seaming.
- In the outer seam hip area, in all three layers shall, incorporate convex seam technology to provide for generous seat expansion when squatting and crawling without creating unsightly bagginess.
- That the diamond extend from just above the left knee to just above the right knee, and be centered equally from front to rear. Width of diamond at top of crotch shall be approximately proportionally graded to waist size and inseam length.
- Ensure that pants rest in normal body line balance of 22 inches (55.9 cm) center distance at the cuff for 42 waist, 30 inseam pants.
- Provide for an alteration point at the hips so that during manufacture the hip dimension can be adjustable in two-inch (5.0cm) increments

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.42.0 SUSPENDER CONNECTION

Suspender connection to pants shall allow for snap style suspenders. Suspender connections shall be mounted to waist and is internally reinforced with an additional band of coated needle punch aramid or acceptable equal.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.43.0 LINER ATTACHMENT

The moisture barrier and thermal liner assembly shall be attached to the outer shell at the waistband with seven (7) evenly-spaced glove snaps. Liners shall be attached at the cuff by means of snaps on two (2) sets of Nomex tabbing per liner cuff. The male and female snap parts shall both be located on Nomex tabbing that is sewn to the liner at the cuff. A separate piece of Nomex tabbing shall be sewn to the shell cuff and fashioned as a loop without any snap hardware.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.44.0 PANT CERTIFICATION LABEL ON LINER

The pant certification label on the liner shall be affixed to the inner left hip area of the liner.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.45.0 PANT CERTIFICATION LABEL ON SHELL

The pant label on the shell shall be affixed to the facing at the fly.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.46.0 FLY FRONT

The outer shell fly shall be lock-stitched to the left side of the front opening and shall be in proportion to waist size and crotch rise in both length and width. Fly inner lining shall extend at least 2 inches (5.1 cm) to the left of the outer shell fly attachment seam and shall be constructed of certified breathable moisture barrier and thermal liner. The right front pant opening shall have an internal facing extending at least 2 inches (5.1 cm) to the right and constructed of specified fabric. In combination with the liner, the system shall offer 360-degree protection without gaps during movement of the outer shell moisture barrier and thermal liner. Closure shall be by means of a minimum 1.5-inch-wide (3.8-cm-wide) hook and loop fastener, and all construction techniques used shall provide liquid penetration protection under the NFPA 1971 Whole Garment Liquid Penetration Test. The fly shall be graded to the waist size of garments and crotch rise.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

1.47.0 COMPOSITE MATERIALS

1.47.1 OUTER SHELL

PBI Kombat Flex, 6.9 oz; Twill Weave; 70% Spun / 30% Filament Matrix – Bronze, Black or acceptable equal

1.47.2 THERMAL LINING

7.7 oz; spun Meta Aramid 75% and Filament 25% 1 layer of 2.3oz. and 1 layer of 1.5oz. Meta Aramid/Para Aramid spunlace with a 3D pattern or acceptable equal

### 1.47.3 MOISTURE BARRIER

Stedair 4000 Nomex IIIA woven substrate laminated to a breathable ePTFE membrane, 5.5 oz/yd or acceptable equal

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 1.48.0 PANT CUSTOM OPTIONS TO BE PROVIDED

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised.

- \*\*\*NFPA 1971, 2018 Edition Construction and Labeling\*\*\*
- Inspection Port
- Liner Detachable
- Trim Double Stitched
- Trim - (7) NFPA -lime 2-tone Oralite Brilliance (3")
- Number Patch - on left pocket
- 1 -2" sewn letters - lime Reflexlite Brilliance - on left pocket  
<D F D> - no periods - Place on Flap
- Narrow Fly -2" Velcro w/ Hook & Dee or acceptable equivalent
- Liner Label Pocket
- Pant Cuffs - angled - Arashield - Gold or acceptable equal.
- BiFlex Heat Channel Knees - Gemini XT - Bronze or acceptable equal.
- Both center sections in BiFlex Knee to be Arashield - Gold or acceptable equal.
- Take Up Straps - 2 Postman
- Bellows Pockets - - 9" x 9" x 1.5" Full Kevlar Lined
- Tool Divider - Kevlar
- Place in left and Right bellows pockets - placed on pant portion
- Vertical Strips Velcro on Flap/Full on pocket
- Snap Style Suspender Attachment
- Suspenders w/ Snap Attach & Quick Adjust Installed
- Suspender Padding

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

## 2. Structural Firefighting Protective Footwear

### 2.1.0 CERTIFICATION

The manufacturer must certify that the elements proposed meet or exceed all requirements of NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, Latest Edition. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) and/or Safety Equipment Institute (SEI) as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

The manufacturer shall be registered to ISO 9001, Quality Management Systems - Requirements, 2015.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.2.0 WARRANTY

Name of Proposing Company: \_\_\_\_\_  
City of Dayton, Ohio  
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The manufacturer must provide a one year product warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.3.0 PRODUCT COUNTRY OF ORIGIN

For liability reasons, the footwear must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.4.0 LABELING REQUIREMENTS

Labels shall be permanently and integrally printed on materials that meet all the requirements for labels of NFPA 1971. The footwear shall be clearly labeled to fully identify the major material content and shall be labeled with the FEMSA-style DANGER label.

The labeling shall contain manufacturing information, which shall include, at a minimum, a lot number and manufacturing date.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.5.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide which complies with user information requirements of NFPA 1971, and shall reference that standard. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations. This document shall be packaged with each element.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.6.0 REPAIRS

The manufacturer shall describe its service facilities and equipment to make necessary repairs to the boots, for cases in which repair of a damaged boot is deemed preferable to replacement.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.7.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of the RFP submission shall form a part of this specification to the extent specified herein.

<u>STANDARD</u>	<u>TITLE</u>
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting

Class 75 impact resistance/compression resistance requirements of ASTM F2413-05.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

## 2.8.0 DESIGN CONCEPT (STYLING), MATERIALS AND CONSTRUCTION

### 2.8.1 DESIGN

Shall be a 14" high pull-on, fabric/leather bunker style boot. Side and back stays, fire resistant fabric, water-repellent leather, safety toes, electrical hazard rated soles, steel bottom penetration resistance barrier, steel shank, shinguard and quick donning and doffing features for fire suppression personnel.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.2 UPPER

7½ oz. Nomex<sup>®</sup>/Kevlar<sup>®</sup> rip-stop fabric covers shaft of boot. MIL AB 5½ oz. per square foot silicone impregnated full grain cowhide leather covers shinguard, straps, and heel and vamp area.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.3 TOE

Fire resistant, abrasion resistant rubber covers entire frontal toe area and incorporates three horizontally extended durability bumper cleats to deter toe area abrasion and extend the life of the boot.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.4 HEEL

Fire resistant, abrasion resistant reflective rubber compound covers heel area with 3 horizontal cleats stitched and die cut through 5 ½ oz. silicone impregnated leather. Exposed cleats aid donning and doffing of footwear and extends and protects wear life of moisture barrier and heel counter.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.5 PULL-ON LOOP

Four (4) one piece, ¾" wide, fully reinforced, pull on leather straps fastened approximately 1" below top line to exterior boot shaft utilizing 2" x 1 ½" shield-shaped anchor. Straps are replaceable by construction.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.6 PUNCTURE RESISTANT BOTTOM PLATE

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 2.8.6 SOLE AND HEEL BLOCKER

Fire resistant, stitched-down sole designed with lugs angled to provide substantial edging capabilities on both ascents and descents. Center medallion of stars surrounded by lug pattern provides maximum wear and traction. Larger lugs are close together for excellent durability yet separate for enhanced grip. Smaller lugs for more aggressive traction. Larger lugs on heel area to assure long lasting durability in this high-wear area. Lugs grouped for durability and grooved for traction. Sole is replaceable by construction.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 2.8.7 SOLE COMPOUND

Design to provide superior traction on snow and ice as well as wet or dry surfaces.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 2.8.9 WELT

Full wrap-around, reflective, Goodyear neoprene storm welt.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 2.8.10 FULL HEIGHT FOOTWEAR FABRIC BOOTIE SYSTEM

Laminate of thermally bonded nonwoven fabric facecloth, 7.5 oz. 100% virgin Kevlar<sup>®</sup> felt and CROSSTECH<sup>®</sup> Footwear Fabric or equivalent.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 2.8.11 SIZES (Full and half sizes)

C – 6 to 12, 13, 14	D – 4 to 13, 14, 15
E – 4 to 13, 14, 15	EEE – 4 to 13, 14, 15, 16

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 2.8.12 MARKINGS

Interior label contains all information as required by NFPA 1971 “Standard on Protective Ensemble for Structural Fire Fighting” 2007 edition, Class 75 impact resistance/compression resistance requirements of ASTM F2413-05.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 2.8.13 BAR-CODING

Code 128 symbology incorporating a unique serial number. Symbology information will also appear in written text in the English language. Bar-coding will appear in the right boot of each pair.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 3. Structural Firefighting Gloves Wristlet Style

#### 3.1.0 CERTIFICATION

The manufacturer must certify that the elements proposed meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) as the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory. UL or a UL Authorized Client Test Data Program laboratory will fulfill this requirement.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 3.2.0 WARRANTY

The manufacturer must provide a product lifetime warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 3.3.0 PRODUCT COUNTRY OF ORIGIN

For liability reasons, elements must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 3.4.0 LABELING REQUIREMENTS

Labels shall be permanently and integrally printed on materials that meet all the requirements for labels of NFPA 1971. The element shall be clearly labeled to fully identify the material content and shall be labeled with the FEMSA-style DANGER label.

The labeling on each element shall contain manufacturing information, which shall include, at a minimum, a lot number and manufacturing date.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 3.5.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide for the element, which complies with user information requirements of NFPA 1971, and shall reference that standard. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each element.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 3.6.0 SIZE AVAILABILITY AND EXCHANGES

The manufacturer must offer gloves in eight distinct size: 64N (normal), 64W (wide), 70N, 70W, 76N, 76W, 82N, and 82W as specified in NFPA 1971, 2018.

Upon request, the manufacturer shall provide custom sized or custom modified gloves at no additional cost. Standard lead times do not apply to these type gloves and custom made gloves cannot be exchanged.

The manufacturer agrees to trade sizes of new, unused gloves (of the same design and current NFPA edition) with the purchaser at no charge, when necessary.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 3.7.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of the RFP submission shall form a part of this specification to the extent specified herein.

STANDARD	TITLE
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting



**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 3.8.0 DESIGN CONCEPT (STYLING) AND CONSTRUCTION

The element shall meet or exceed both the design and performance requirements as outlined in NFPA 1971.

The glove shall be of a wristlet style construction with the composite of the glove body extending at least 2.0 inches (5.0 cm) beyond the wrist crease. There shall be a minimum 3.5 inch (8.9cm) double layer Nomex knit wrist sewn into the cuff opening. Provide a 2.5 inch (6.4 cm) long pull tab lock stitched to the underside of the wristlet, beginning at the wristlet seam the tab shall be approximately 3.0 inches (7.6 cm) wide and taper to 2.0 inches (5.0 cm) before it is rounded off nearest the wristlet opening.

The glove shall feature a hanger loop on the inside of the glove, made of outer shell material, stitched to the glove at the inside cuff.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 3.9.0 MATERIALS

The glove body shall consist of an outer shell, a thermal lining, a moisture barrier, and a gauntlet. The glove shall be made of the following materials:

#### 3.9.1 OUTER SHELL

The outer shell material shall be split suede, gold colored elk hide or acceptable equal.

#### 3.9.2 MOISTURE BARRIER

The moisture barrier insert shall be seamless (not penetrated by unsealed stitching at any point). It shall be made of Crosstech or acceptable equal.

#### 3.9.3 THERMAL LINER

The inner lining shall be Kevlar/Nomex or acceptable equal.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

## 4. Protective Structural Firefighting Hood

### 4.1.0 CERTIFICATION

The manufacturer must certify that the elements proposed meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with a third party certification organization as prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by the certification organization or an ISO 17025-certified, Authorized Client Test Data Program Laboratory of the third party certification organization.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 4.2.0 WARRANTY

The manufacturer must provide a product lifetime warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

### 4.3.0 PRODUCT COUNTRY OF ORIGIN BERRY ACT COMPLIANCE

Name of Proposing Company: \_\_\_\_\_  
City of Dayton, Ohio  
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The element must be manufactured in the United States of America by companies with their assets and incorporation within the United States of America and be Berry Act Compliant with proper documentation furnished by manufacturer upon written request.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.4.0 LABELING REQUIREMENTS

Labels shall be permanently and integrally printed on materials that meet all the requirements for labels of NFPA 1971. The element shall be clearly labeled to fully identify the material content. The labeling on each element shall contain manufacturing information, which shall include, at a minimum, a lot number and manufacturing date.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.5.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide which complies with user information requirements of NFPA 1971, and shall reference that standard. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations. This document shall be packaged with each element.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.6.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of the RFP submission shall form a part of this specification to the extent specified herein:

STANDARD	TITLE
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.7.0 DESIGN CONCEPT (STYLING) AND CONSTRUCTION

The hood and materials shall meet or exceed both the design and performance requirements as outlined in NFPA 1971. The hood pattern shall consist of a circular crown piece, a head/neck piece and front/rear bibs/drapes.

The hood shall provide full head and neck coverage (excluding the face) and partial shoulder to shoulder coverage with chest and back drape of at least 14 inches (35 cm) wide and extend at least 6 inches (15.3 cm) below the neck seam at both the front and rear.

Hood shall feature an over-sized head section with a face opening to provide extra generous dimensions that easily stretch to a minimum of 18 inches (45 cm) to provide superior donning and fit characteristics for any size firefighter's head.

The face opening shall be of sufficient size and style so that it is adaptive to the widest portion of the firefighter's air mask to minimize obstruction of the firefighter's peripheral vision while maintaining an effect protective overlap with the edges of the air mask and air mask lens.

The particulate blocking material specifically designed for barrier protection shall provide protection, at a minimum, to the required area of the hood as outlined in NFPA 1971.

Hood composite materials that incorporate a particulate blocking layer shall have a particulate filtration efficiency of 90% or greater for each particle size 0.1 µm to 1.0 µm.

Hood composites including a particulate blocking layer shall have a Total Heat Loss (THL) of not less than 325 W/m<sup>2</sup>.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.8.0 MATERIALS

The hood body shall consist of fire resistant material.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 4.9.0 PACKAGING

Each hood body shall be individually package in a clear poly-bag along with the all user information guides and information.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 5. Protective Helmet for Structural Firefighting Low Ride Traditional Style

#### 5.1.0 CERTIFICATION

The manufacturer must certify that the garments proposed meet or exceed all requirements of NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, Latest Edition. The manufacturer must also list and label this product with a label identifying the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

The manufacturer shall be registered to ISO 9001, *Quality Management Systems – Requirements*, 2015.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.2.0 WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.3.0 PRODUCT COUNTRY OF ORIGIN

For liability reasons, helmets must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.4.0 LABELING REQUIREMENTS

Labels shall be integrally printed onto materials that meet all the requirements for labels of NFPA 1971.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.5.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide for the helmet, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each helmet.

This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference it.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.6.0 FLAMMABILITY OF CONSTITUENT MATERIALS

The complete helmet, chin straps, and ear covers shall be tested for flame resistance and shall comply with the requirements of the NFPA 1971 flammability tests for helmets.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.7.0 THREAD

All thread used in sewing of ear covers, chin straps, and overhead Nylon straps shall be Nomex Tex 90

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.8.0 SIZING

The helmet shell shall be of a universal size. Sizing adjustments shall be accomplished as described in the section titled Suspension, Headband and Retention Systems.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.9.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of the RFP submission shall form a part of this specification to the extent specified herein.

<u>STANDARD</u>	<u>TITLE</u>
ASTM D 6193-97	Standard Practice for Stitches and Seams
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

5.10.0 DESIGN CONCEPT (STYLING)

Design shall be a traditional American Fire Service style helmet, which shall include on the exterior of the helmet dome: a major longitudinal ridge, a major transverse ridge, and minor diagonal ridges.

The brim shall be of a traditional "watershed" design, include decorative vine scrollwork on the upper brim, and have a decreasing radius downward slope at the rear of the brim. The brim, when measured from the dome and brim intersection point 1.58 inches (4.01 cm) in the front, 1.3 inches (3.3 cm) at the sides, and 3.0 inches (7.62 cm) at the rear.

An upper mounting bracket for a leather front shall be cast aluminum alloy Eagle with a gold plate finish. Forward/rearward movement to fit various style leather fronts shall be provided by 0.438-inch (1.11-cm) slots in the base of the Eagle where it shall be mounted to the front of the longitudinal ridge using three (3) threaded stainless steel rods, flat washers, lock washers and six solid brass dome nuts.

On black, red, orange, blue, green and yellow helmet shells, there shall be black, impact resistant, and fire retardant edge beading. White helmets shall have white edge beading available.

A hanger loop with at least 1.15 inches (2.92 cm) inside dimension shall be mounted at the rear of the helmet brim and shall be held in place by means of a bracket. Both of these components shall be gold anodized aluminum and fastened to the helmet with a machine screw, lock washer and dome nut meeting hardware specifications outlined in the General Helmet Hardware section.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 5.10.1 LOWER MOUNTING BRACKET FOR LEATHER FRONT

A lower mounting bracket for a leather front shall be a "U" shaped bracket molded of non - conductive fiber reinforced thermoplastic. The "U" bracket shall be mounted to the lower front portion of the helmet, just above the brim using screws and nuts that meet the hardware requirements of Section 19.0.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 5.11.0 COMPOSITE SHELL

The helmet shell shall be made of FYR-Glass or acceptable equal material. The shell shall be available in black, white, red, orange, blue, green and yellow with the color molded throughout. Painting or coatings on the shell shall not be acceptable because of their inherent problems of chipping and durability. Shell must conform to the latest NFPA Standard

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 5.12.0 WEIGHT DISTRIBUTION DESIGN CRITERIA

The shell shall exhibit superior levels of energy dissipation and penetration resistance. This shall allow the helmet a much lower center of weight location. Additionally, the internal six-point overhead suspension straps shall be long enough to allow for a lower shell ride on the head to improve fit, while reducing fatigue and helmet instability during use.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 5.13.0 GENERAL HELMET HARDWARE REQUIREMENTS

All threaded rods, machine bolts, machine screws, dowel rods and hex nuts shall be stainless steel. All dome nuts and threaded inserts used in plastic parts shall be solid brass. All split style lock washers used shall be bronze or stainless steel. Postman slides for chinstraps shall be nickel-plated zinc alloy. Quick release buckles for chinstraps shall be high-temperature, flame retardant, thermoplastic material.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ ] Yes      ☐ ] No

#### 5.14.0 FACESHIELD

Exposed brackets and/or retention systems for eye protection, shall be certified to NFPA 1971.

For helmets with goggles, screw plates shall be mounted less the face shield-mounting bracket as described above.

Self-storing face shields are acceptable and should be certified to NFPA Standard 1971.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.15.0 SUSPENSION, HEADBAND AND RETENTION SYSTEMS

The internal sizing and impact dissipation systems of the helmet shall be comprised of the following components: Suspension mounting ring; adjustable headband/ratchet with padding; easily replaceable, washable and padded coverings for the headband and ratchet; and a six- point overhead strapping/suspension system.

#### 5.16.0 REFLECTIVE TRIM

Standard trim shall be eight lime yellow 2-inch-high (5.1-cm-high) Reflexite trapezoids. Customer may select other types of trim for a small upgrade charge.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.17.0 EAR COVERS

Standard ear covers shall be constructed with fire resistant material.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 5.18.0 CHIN STRAP

The chinstrap shall be made from 0.75-inch-wide (1.9-cm-wide) black FR spun fiber webbing and incorporate a double buckle quick-release; with a postman slide, length adjustment on the wearer's left side. The loose end of the strap shall feature storage by means of a hook and loop fastener. The strap shall be installed to the helmet ring at the side locations.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

### 6. Protective Helmet for Structural Fire Fighting Jet-Style

#### 6.1.0 CERTIFICATION

The manufacturer must certify that the garments proposed meet or exceed all requirements of NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, Latest Edition. The manufacturer must also list and label this product with a label identifying the third party certification organization prescribed in NFPA 1971. All certification testing and test preconditioning must have been performed by an ISO 17025-certified laboratory

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

The manufacturer shall be registered to ISO 9001, *Quality Management Systems – Requirements*, 2015.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ Yes      ☐ No

#### 6.2.0 PERFORMANCE CERTIFICATION/STANDARDS

The manufacturer must provide a complete and current NFPA 1971 test report from a recognized, accredited test facility detailing performance data for the

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helmet(s) and compliant helmet components included in the original assembly. Certificates of conformance and/or letters of certification alone shall not be accepted. Component testing is not acceptable. Certification testing in concluded every year to a random lot size, as per NFPA requirements.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.3.0 WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the proposal package.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.4.0 PRODUCT COUNTRY OF ORIGIN

For liability reasons, helmets must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.5.0 LABELING REQUIREMENTS

Labels shall be integrally printed onto materials that meet all the requirements for labels of NFPA 1971.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.6.0 CARE INSTRUCTIONS

The manufacturer shall provide a user information guide for the helmet, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each helmet.

This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference it.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.7.0 FLAMMABILITY OF CONSTITUENT MATERIALS

The complete helmet, chin straps, and ear/neck covers shall be tested for flame resistance and shall comply with the requirements of the NFPA 1971 flammability tests for helmets.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.8.0 THREAD

All thread used in sewing of ear/neck covers, chin straps, and overhead Nylon straps shall be Nomex Tex 90.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

6.9.0 SIZING

The helmet shell shall be of a universal size. Sizing adjustments shall be accomplished as described in the section titled Suspension, Headband and Retention Systems.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.10.0 APPLICABLE DOCUMENTS

The following standards in their active versions on the date of the RFP submission shall form a part of this specification to the extent specified herein.

<u>STANDARD</u>	<u>TITLE</u>
ASTM D 6193-97	Standard Practice for Stitches and Seams
NFPA 1500, 2018 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2014 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2018 Edition	Standard on Protective Ensemble for Structural Fire Fighting

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.11.0 COMPOSITE SHELL

The helmet shall be a Jet-Style design made of high-temperature thermal plastic or acceptable equal material that is injection molded to form a one-piece shell. The shell shall be available in black, white, red, orange, blue, green and yellow with the color molded throughout. Painting or coatings on the shell shall not be acceptable because of their inherent problems of chipping and durability. Shell must conform to the latest NFPA Standard

On black, red, orange, blue, green and yellow helmet shells, there shall be black, impact resistant, and high-temperature, fire retardant edge beading. White helmets shall have white edge beading available.

A hanger loop with at least 0.75 inches (19 mm) inside dimension shall be mounted at the rear of the helmet brim and shall be held in place by means of a bracket.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.12.0 IMPACT CAP

The impact cap is designed to help provide increased thermal and impact protection. The impact cap shall be impact-resistant, shock-absorbing polyurethane foam, with over molded aramide reinforcement. It is removable for inspection and replacement.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.13.0 FRONT PLATE

The helmet shell shall be furnished with a blank black front plate that is affixed to the helmet through friction tabs. The front plate shall be customizable and, in addition to black, and should be available in the following colors: white, blue, green, yellow, orange, red, hi-viz yellow, and photolum (photoluminescent).

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.14.0 WEIGHT DISTRIBUTION DESIGN CRITERIA



The shell shall exhibit superior levels of energy dissipation and penetration resistance. This shall allow the helmet a much lower center of weight location. Additionally, the internal six-point overhead suspension straps shall be long enough to allow for a lower shell ride on the head to improve fit, while reducing fatigue and helmet instability during use.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.15.0 FACESHIELD/EYE PROTECTION

Face shields shall be high-temperature polycarbonate visor with anti-fog and anti-scratch coatings. The full face shield shall meet the performance requirements of NFPA-1971 (current edition) and be retractable between the helmet shell and impact cap. The full face shield shall be replaceable without the use of tools.

An ocular visor is acceptable and shall be compliant to ANSI/ISEA Z87.1 (current edition) and NFPA 1971 (current edition). This visor shall feature a patented pivot adjustment system that allows the visor to articulate to and away from the face, helping to provide gap-free protection even when the user is wearing corrective lenses. This visor must be replaceable without the use of tools.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.16.0 SUSPENSION, HEADBAND AND RETENTION SYSTEMS

The internal sizing and impact dissipation systems of the helmet shall be comprised of the following components: Suspension mounting ring; adjustable headband/ratchet with padding; easily replaceable, washable and padded coverings for the headband and ratchet; and a six-point overhead strapping/suspension system.

Sizing shall be adjustable by a ratchet that may be set to accommodate the back of the wearer's head. The headband height shall be adjustable at the front of the helmet via sliding friction tab to provide additional comfort to the wearer and maximize compatibility with the SCBA facepiece.

The multi-point chin strap shall be adjustable via a friction buckle, with multiple stops to help ensure a proper fit.

All interaction points should be made from a bright yellow material for easy visualization and identification.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.17.0 REFLECTIVE TRIM

Standard trim shall have a minimum of four (4) pieces of retroreflective trim around the exterior crown of the helmet shell for maximum visibility and requirements in the latest edition of NFPA 1971. Lime/yellow Scotchlite trim shall be available. Customer may select other types of trim for a small upgrade charge.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.18.0 EAR/NECK COVERS

Standard ear/neck covers shall be constructed with fire resistant material. The ear and neck protection shall be at minimum 8.5" (216 mm) wide, 24" (610 mm) long, full-cut earlap (not including installation clips). The earlap shall consist of black colored Nomex and secured via six (6) tabs located along the top of the ear lap. These tabs shall be inserted into corresponding slots molded into the impact cap liner to ensure a secure connection.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**

#### 6.19.0 CHIN STRAP

The chinstrap shall be constructed of wide, spun-Nomex webbing, which are connected by a high-temperature, durable thermoplastic quick-release buckle. The multi-point chin strap shall incorporate hook and loop fasteners for cinching under the wearer's jaw and include friction buckles for adjusting the straps comfortably along the back of the wearer's head. The chinstrap shall be attached to the impact cap using a 1/4 quarter turn locking mechanism. The mechanism allows both for proper retention (per the Standards) as well as easy removal for cleaning (per the Manual) or replacement, as applicable.

**Does Your Proposal Comply With All Aspects of This Section?**      ☐ **Yes**      ☐ **No**