

**REQUEST FOR PROPOSAL**  
**Structural and Wildland Personal Protective Equipment (PPE)**



Eric Bauman, Deputy Chief  
**Ogden City Fire Department**  
October 15, 2018

**REQUEST FOR PROPOSAL**  
**Structural and Wildland Personal Protective Equipment (PPE)**

Ogden City Fire Department is requesting sealed proposals from qualified companies for the purchase of structural personal protective equipment (PPE) for its members.

Proposal packets may be obtained from Ogden City Purchasing, 2549 Washington Blvd., Suite 510, Ogden, Utah, or by downloading proposal packets from the Ogden City website at [bids.ogdencity.com](http://bids.ogdencity.com). Bidders are responsible for securing any and all addenda issued.

Proposals will be accepted **no later than 3PM on November 8, 2018**. Respondents shall submit six (6) hard copies of the Proposals in a sealed envelope to the office of the City Purchasing Agent, 2549 Washington Blvd, Suite 510 Ogden UT 84401 or deliver package to the 2nd Floor information desk at the same address. **Late proposals will not be accepted.**

Ogden City reserves the right to accept or reject any proposal as it best serves its convenience and/or is found to be in the best interest of the City. The City reserves the right to issue contracts to multiple vendors.

Ogden City encourages and welcomes bids from women and minority-owned businesses.

**Published:** October 21 & 28, 2018

## **Section 1 – Introduction & Background**

### **Purpose**

The purpose of this Request for proposal (RFP) is to solicit bids to enter into a purchasing contract(s) with a local distributor (hereinafter referred to as the (“Vendor”) to obtain structural firefighter clothing for members of the Ogden City Fire Department (hereinafter referred to as the (“Customer”). It is anticipated that this RFP will result in a contract award to a single Vendor.

This RFP is designed to provide interested Vendors with sufficient information to submit proposals meeting minimum requirements; it is not intended to limit the content of a proposal or exclude any relevant or essential data. Vendors are at liberty and are encouraged to expand upon the specifications to evidence their capability under any agreement.

For the purposes of this RFP, the term Customer includes direct employees of the Ogden City Fire Department.

### **About Ogden City Fire Department**

Ogden City Fire Department is a career fire department, comprised of 116 full time members. Ogden City is the county seat of Weber County, Utah, United States, approximately 10 miles east of the Great Salt Lake and 40 miles north of Salt Lake City. The department serves 86,701 residents in the city, which is comprised of 27 square miles. The department provides structural and wildland fire protection through automatic and mutual aid agreements to all neighboring departments in Weber County, population of 247,550. With an annual call volume of 19,481 incidents, the department responded to 104 working structure fires during the last calendar year. The department also responded to 17,191 Emergency Medical Services incidents during the same time period. Firefighters respond to emergencies from the department's six staffed stations. One of the six stations is an ARFF station, located at the Ogden Hinckley Municipal Airport, which provides coverage for scheduled commercial flights.

In addition to structural, wild land, and EMS responses, the department provides Fire Prevention and Community Development Support, Hazmat, USAR Technical Rescue, and Aircraft Rescue and Firefighting (ARFF). The department also provides Advanced Life support ambulance transport service and Paramedic Rescue service to Ogden City and two thirds of Weber County, for a total of 247,550 in population.

## Section 2 – General Information

### Vendor Requirement

Bids shall only be considered from Vendors that have an established reputation in the sale of Structural Firefighter and Wildland Firefighter Protective Clothing. Vendor must have been in business for a minimum of five (5) years.

The Vendor shall have an authorized dealer in the State of Utah staffed with factory-trained technicians, fully capable of properly fitting and evaluating the clothing described.

### Proposal Response Outline

Proposals must be concise and in outline format. Pertinent supplemental information should be referenced and included as attachments. All proposals must be organized and tabbed to comply with the following sections:

*Tab A: LETTER OF TRANSMITTAL.* The letter of transmittal should include an introduction of the Vendor's company, the name, address, telephone number and fax number of the person to be contacted along with others who are authorized to represent the company in dealing with this RFP. Any other information not appropriately contained in the proposal itself should also be included in the letter.

*Tab B: EXECUTIVE SUMMARY.* An executive summary will briefly describe the Vendor's approach and commitment to this project.

*Tab C: EXCEPTIONS.* All exceptions, regardless of how minor, shall be stated. Exceptions shall be listed in order of this RFP and referenced by section number and name and subsection title.

*Tab D: WARRANTY INFORMATION & CLOTHING BROCHURES.* Proposed warranty and clothing brochures, including specifications, for each item you propose to furnish shall be provided.

*Tab E: PRICING.* The Vendor shall submit a cost proposal for the equipment and supplies requested. The vendor must break down the costs associated with each item.

*Tab F: MISCELLANEOUS.* Additional information and attachments, if any, submitted by the Vendor.

## **Submission of Proposals**

Submit competitive sealed proposals to the Ogden City Purchasing Agent at Ogden City Municipal Building 2549 Washington Blvd, Suite 510 Ogden, UT 84401, **no later than 3 PM on November 8, 2018**. Proposals shall be marked "Attn: Ruby Kakita – Ogden City Fire Department PPE RFP - Due November 8, 2018". Proposals received after the deadline will be late and ineligible for consideration.

**One (1) original and five (5) copies must be received by the posted due date and time.**

There will be no public opening of the proposals.

## **Inquiries**

Questions arising subsequent to the issuance of this RFP should be submitted to Purchasing Office via email at [purchasing@ogdencity.com](mailto:purchasing@ogdencity.com)

## **Addenda**

Bidders are responsible for securing any and all addenda issued. Such addendum will be published in Ogden City's website - <https://www.ogdencity.com/264/Purchasing>

## **Exceptions**

All exceptions shall be stated no matter how seemingly minor. Any exceptions not taken shall be assumed by the Customer to be included in the proposal, regardless of the cost to the Vendor.

## **Economy of Preparation**

Vendors shall prepare each proposal simply and economically, providing a straightforward, concise description of Vendors' offer and capabilities to satisfy the requirements of this RFP. Emphasis should be on completeness and clarity of content.

## **Award of the Contract**

Upon completion of the evaluation process, the Customer may award the contract ("Contract") or contracts in full or part to the Vendor(s) whose proposal is determined to be most advantageous to the agency irrespective of price or other individual portion of any submitted proposal.

The Customer realizes that application and philosophical differences exist from vendor to vendor regarding the design, construction, and capabilities of the clothing described herein. The

Customer reserves the right to choose and recognize those differences that benefits the Customer's philosophy.

### **Contract Period and Effective Date**

The anticipated Contract term will be for the period of two (2) years. The anticipated effective date of the Contract is on or before February 1, 2019.

Bids shall remain firm from the date of award through February 1, 2021

### **Option to Renew**

The Customer reserves the right to renew the contract for three (3) additional one (1) year periods under the terms and conditions of the contract issued as the result of this RFP. The renewal is contingent on a mutual agreement between the Customer and the Vendor with such agreement to be confirmed at least 60 days prior to the expiration of the contract period. Either the Customer or the Vendor may decline to confirm the renewal of the contract for any reason whatsoever, which shall render the renewal option null and void.

The Customer's initial letter offering the Vendor an opportunity to renew the contract does not constitute an award of the option period. Any option acceptance must be confirmed by the customer, in writing, before it becomes valid.

Vendor shall indicate the maximum percentage to which the prices in effect at the end of the current contract year would be subject to increase if the renewal option is exercised.  
\_\_\_\_\_ %.

If a renewal option price increase is requested, the Vendor must provide detailed supporting documentation to justify the requested increase.

### **Reduction in Price**

If during the life of the contract, the successful Vendor's net prices to other customers for the items awarded herein are reduced below the contracted price, it is understood and agreed that the benefits of such reduction shall be extended to the Customer.

### **Protected Information**

Under the Government Records Access and Management Act, Section 63-2-101 et seq., Utah Code Ann., as amended ("GRAMA") certain information in the proposal(s) submitted may be open for public inspection. If a Vendor desires to have information contained in its proposal(s)

protected from such disclosure, the Vendor may request such treatment by providing a "written claim of business confidentiality and a concise statement of reasons supporting the claim of business confidentiality" with the proposal (GRAMA, Section 63-2-308). All material contained in and/or submitted with the proposal becomes the property of the Customer and may be returned only at the Customer's option. A written request for business confidentiality to the Ogden City Recorder shall be provided at the time the proposal is submitted.

### **Incurring Cost**

The Customer will not be liable for any cost which any Vendor may incur in connection with the preparation or presentation of their proposal(s) or demonstrations.

### **Alternative Proposals**

A Vendor may submit more than one proposal, each of which must follow the Proposal Response Outline and satisfy the requirements of this RFP. Each proposal must be complete and comply with all instructions. The alternative proposals may be in abbreviated form following the Proposal Response Outline but providing complete information only for sections which differ in any way from those contained in the prime proposal. If alternative proposals are submitted, the Vendor must explain the reasons for the alternative(s) and its comparative benefits. Each proposal submitted will be evaluated on its own merits.

### **Authorized Vendor Representatives**

PROPOSAL: List the name, title, office address, telephone number, fax number and e-mail address (if available) of the person(s) authorized to represent the Vendor regarding the proposal(s) submitted in response to this RFP. The Customer reserves the right to require a change in the individual assigned to represent the Vendor if the assigned representative is not serving the needs of the Customer in an acceptable manner. This right shall carry forward through the response period and, with the successful Vendor, during the term of the Contract.

CONTRACT: Give the name, title, office address, telephone number, fax number and e-mail address (if available) of the person authorized to sign a Contract, and receive and sign all formal notices and/or addendum regarding such Contract. Note that all amendments to any Contract must be in in writing and signed by both parties.

### **Award of Subcontracts**

For each subcontract, if any, which the Vendor proposes to award, the Vendor shall specify in writing the proposed subcontractor's name and address, and the purpose of each subcontract. Any Vendor proposing subcontracts as a part of a proposal must explicitly state so in the proposal. Written approval by the Customer is required prior to the awarding of any subcontracts. Any Subcontractor shall be required to provide evidence to the Customer of the same insurance provisions and coverages as described in this RFP.

### **Assignment**

Vendor shall not assign or subcontract any portion of its obligations under the Contract without the prior written consent of the Customer. Assignment or subcontracting shall in no way relieve the Vendor of any of its obligations under the Contract.

### **Remedies**

The laws of the State of Utah shall apply in all disputes arising out of this RFP, without application of any principles of choice of laws.

### **Compliance**

The Vendor hereby agrees to abide with all applicable federal, state, county and City laws, regulations, and ordinances.

### **Cancellation**

Inadequate delivery, unsatisfactory service or failure to adhere to the Contract covenants may result in cancellation of the Contract. The Vendor shall be responsible for reimbursing the customer for expenses incurred as a result of unacceptable service. In the event that either party determines that a material breach has occurred that would be cause for cancellation of the Contract, the party wishing to cancel shall notify the other party of the alleged breach in writing, and allow the other party fifteen (15) days in which to cure the alleged breach. If the alleged breach is not cured or substantial steps to cure the alleged breach are not taken within this period, the non-defaulting party may cancel the Contract at the end of said fifteen (15) day period.

## **Acceptance of Services Rendered**

The Customer, through its designated agents and representatives, will be the sole determining judge of whether services rendered under the Contract satisfy the requirements as identified in the Contract.

## **Anti-Collusion**

The submission of a proposal constitutes agreement that the Vendor has not divulged its proposal to, or colluded with, any other offer or party to a proposal whatsoever.

## **Indemnification**

The Vendor shall hold harmless, defend and indemnify the Customer and its officers, employees, and agents from and against any and all claims, losses, causes of action, judgments, damages and expenses including, but not limited to attorney's fees because of bodily injury, sickness, disease or death, or injury to or destruction of tangible property or any other injury or damage resulting from or arising out of (a) performance or breach of the Contract by Vendor, or (b) Vendor's use of City premises, or (c) any act, error, or omission on the part of the Vendor, or its agents, employees, or subcontractors except where such claims, losses, causes of action, judgments, damages and expenses result solely from the negligent acts or omissions or willful misconduct of the Customer, its officers, employees or agents.

## **Insurance**

Vendor shall maintain Commercial General Liability insurance with per occurrence limits of at least \$2,000,000 and general aggregate limits of at least \$3,000,000.

Vendor shall also maintain, if applicable to Vendor's operations or performance of this contract, Business Automobile Liability insurance covering Vendor's owned, non-owned, and hired motor vehicles and/or Professional Liability (errors and omissions) insurance with liability limits of at least \$2,000,000 per occurrence. Such insurance policies shall be endorsed to be primary and not contributing to any other insurance maintained by the Customer.

If the coverage described above are not in place at the time a proposal is submitted the Vendor should describe in detail what types and levels of coverage are in place currently, and clearly indicate the Vendor's ability and willingness to obtain the above listed coverage if required by the Customer. The Customer reserves the right to require additional coverage from that presented, at the Vendor's expense for the additional coverage.

The Vendor shall maintain all employee related insurance, in the statutory amounts, such as unemployment compensation, worker's compensation, and employer's liability, for its employees or volunteers involved in performing services pursuant to this Contract. Vendor shall also maintain "all risk" property insurance at replacement cost applicable to Vendor's property or its equipment.

The Vendor's insurance carriers and policy provisions must be acceptable to the Customer's Risk Manager and remain in effect for the duration of the Contract. The Customer shall be named as an additional insured on the Commercial General Liability insurance policy. Vendor will cause any of its subcontractors, who provide materials or perform services relative to this contract, to also maintain the insurance coverage and provisions listed above.

The Vendor shall submit certificates of insurance as evidence of the above required coverage to the Customer prior to the commencement of this Contract. Such certificates shall provide the Customer with thirty (30) calendar day's written notice prior to the cancellation or material change of the applicable coverage, as evidenced by return receipt or certified mail, sent to the above address.

### **Restrictions**

All proposals must clearly set forth any restrictions or provisions deemed necessary by the Vendor to effectively service the proposed Contract.

### **Right to Reject**

The Customer reserves the right to reject any or all proposals in full or in part and to waive any informality or technicality in any proposal in the interest of the Customer.

### **Record Keeping and Audit Rights**

The Vendor shall be responsible to maintain accurate accounting records for all goods and services provided herein, and shall retain all such records for a period of at least three (3) years following termination of the Contract. Upon reasonable notice and during normal business hours the Customer, or any of its duly authorized representatives, shall have access to and the right to audit any records or other documents pertaining to the Contract. The Customer's audit rights shall extend throughout the term of the Contract and for a period of at least three (3) years thereafter.

## **Management Reports**

Upon request the Vendor must be able to summarize and concisely report pertinent information to the Customer in a timely manner, throughout the duration of any Contract resulting from this RFP.

## **Further Agreements**

In addition to a proposal, the Customer may from time to time require a Vendor to execute certain additional documents or agreements, including without limitation a Contract, for the purpose of clarifying the intention of the parties with respect to providing the goods or services hereunder.

## **Relationship of the Parties**

In assuming and performing the obligations of any Contract, the Customer and any Vendor shall each be acting as independent parties and neither shall be considered an employee of the other. Additionally, neither shall represent itself as a joint venture or partners other than as authorized by a written agreement or contract.

## **Equal Opportunity**

No Vendor of goods and/or services under this RFP or any Contract shall discriminate against any employee, applicant for employment, or recipient of services on the basis of veteran status, race, religion, color, sex, sexual orientation, age, disability, or national origin.

## **Taxes: Vendor's Responsibility**

Vendor's shall be responsible for and pay all taxes which may be levied or incurred against the Vendor in connection with the performance of any services under a Contract, including taxes levied or incurred against Vendor's income, inventory, property, sales, or other taxes.

## **Taxes: Customer is Exempt**

The Customer is exempt from State of Utah sales and excise taxes. Exemption certification information appears on all purchase orders issued by the Customer and such taxes will not apply to the Customer unless otherwise noted.

## **Substitutions**

No substitutions of items proposed shall be permitted without review and written authorization from the Customer.

## **Payment**

After receiving the goods or services requested and a proper invoice, the individual or City who placed the order, will make payment to the Vendor thirty (30) days after receiving the invoice. Payment is the responsibility of the individual or City, or Ogden City Fire Department.

## **Warranty**

Manufacturer shall warrant the items to be free from defects in materials, and workmanship for the serviceable life of the product, when properly used and cared for.

Manufacturer shall provide a written statement, with each item, defining the conditions of the warranty.

The vendor will be responsible for all transportation costs incurred during the warranty period.

The Vendor shall supply, as a part of their bid package, a copy of the warranty or warranties they propose to provide.

## **Section 3 – Proposal Evaluation Process**

### **Process**

All proposals in response to this RFP will be evaluated in a manner consistent with Ogden City's purchasing policies. In the initial phase of the proposal evaluation process, the evaluation committee will review all proposals timely received.

First, non-responsive proposals (those not conforming to RFP requirements) will be eliminated. Second, the remaining proposals will be evaluated in a cursory manner to eliminate from further consideration those proposals which in the judgment of the evaluation committee fail to offer sufficient and substantive provisions to warrant further consideration. Each Vendor bears sole responsibility for the items included or not included in the response submitted by that Vendor.

The Customer reserves the right to disqualify any proposal that includes significant deviations or exceptions to the terms, conditions and/or specifications in this RFP. At the conclusion of this initial evaluation phase, finalist Vendor proposals will be selected for detailed review and evaluation, including oral presentations if required. The City reserves the right to be the sole judge

as to the overall acceptability of any proposal or to judge the individual merits of specific provisions within competing offers.

### **Evaluation of Proposal**

The City may award in full or part a contract or multiple contracts based on initial proposals received without discussion of such proposals with Vendors. Accordingly, each initial proposal should be submitted with the most favorable service and price available.

*The criteria that will be used for evaluation of the proposals are as follows:*

1. **References/Company Credentials = 20 pts.** The firm shall submit no less than three (3) references representing similar customers and a company resume. The references must contain all current contact information. (i.e. name, title, phone and address)
2. **Pricing & Warranty = 30 pts.** The proposal should include a detailed cost breakdown of all Pricing and Warranty of products and workmanship.
3. **Product Design = 30 pts.** The proposal should include a detailed description of product design within the parameters given by the City, i.e. clothing capability, features & comfort.
4. **Product Availability = 20 pts.** Estimated time frame for product availability.

### **Oral Presentation &/or Product Demonstration**

The Customer may require an individual oral presentation and/or product demonstration to the Evaluation Committee, in order to clarify proposals. These presentations will be scheduled, if required, by the Customer's Purchasing Department after proposals are received and prior to the award of the Contract. Vendors shall not rely on the possibility of such a request and shall submit a complete and comprehensive written response to this solicitation.

## **Section 4 – Equipment Specifications**

### **Intent of Specifications**

This specification details design and materials criteria to afford protection to the firefighter against adverse environmental effects during firefighting activities. All protective clothing, provided as the result of this RFP, shall meet or exceed the most current and applicable editions of the NFPA Standards and OSHA regulations and meet the specifications provided by the Ogden City Fire Department.

These specifications shall cover only the general requirements as to the type of construction and capability of the clothing. Minor details of design, construction and materials that are not otherwise specified shall be left to the discretion of the Vendor who shall be solely responsible for the design and construction of all features. The clothing proposed by the Vendor shall meet the requirements of all applicable codes, regulations and /or standards as described herein.

### **Quality and Workmanship**

At the time of bid, the clothing manufacturer shall have manufactured and supplied clothing of similar style and design as the clothing described in this specification.

The design of the clothing shall embody the latest approved practices. The workmanship shall be of the highest quality in its respective field.

The manufacturer of the protective coat and pant shall be certified to ISO Standard 9001. Successful bidder shall provide evidence of manufacturer's ISO 9001 certification with their bid.

The clothing shall be in accordance with all applicable federal, state and local codes or industry standards current at the commencement of the design, construction and delivery of the clothing.

Where more than one code or regulation is applicable, the more stringent code or regulation shall apply.

All components used in the construction of these garments shall be tested by Underwriters Laboratories (UL) for compliance with current and applicable NFPA Standards. UL shall certify and list compliance to that standard. Such certification shall be denoted by the Underwriters Laboratories certification label. Documentation confirming that the garments bid are certified and listed by UL shall be included with the VENDOR's bid package.

Items supplied under this contract shall be subject to the Customer's approval. Items found defective or not meeting bid specifications shall be picked up and replaced by the successful vendor at the next service date at no expense to the Customer. If any item(s) refused are not picked up within one (1) week after notification, the item will become a donation to the Customer

## **Delivery**

Jackets and trousers manufactured to this specification and not in stock at the VENDORS local office, shall be shipped to the CUSTOMER within 30 days of receiving the order. Custom sizes shall be shipped within 45 days of receiving the order.

It is the responsibility of the VENDOR to ensure all clothing is available for pick-up in the State of Utah, preferably, Northern Utah, or delivered to the appropriate CUSTOMER. The VENDOR shall pay ALL freight and delivery charges.

Inspection of the equipment to assure that it meets the specifications of the bid shall be the responsibility of the CUSTOMER.

## **Price Proposal**

***Ogden City Fire Department PPE Garment(s) must meet the following specifications.***

***1. The outer shell must be composed of fibers that have superior performance to a xenon light test that replicates the extremes of exposure to UV and visible light.***

***Structural PPE Ensemble, (Ogden City Fire Department):***

***1. Requires structural jackets and pants to have a composite TPP rating greater than 40.***

***2. Requires structural jackets and pants to have a composite THL rating greater than 230.***

***3. Utilizes fabrics for the outer shell that maintains protection after thermal exposure consistent with the conditions found in a structural fire flashover. Specifically, the outer shell will have tensile strength of at least 110 lbs. after a 17.5 second NFPA TPP exposure of 2Cal/cm<sup>2</sup>/seconds.***

***4. Requires that the outer shell fabric must have superior performance for abrasion resistance and show no excessive wear upon visual inspections after 5,5000 cycles of Taber Abrasion Testing.***

***5. Requires that the outer shell fabric must have superior tear strength to resist tears from sharp edges and tearing hazards measured by a minimum score of 55 lbs. (Warp) and 50 lbs. (Fill) for initial testing and 50 lbs. (Warp) and 40 lbs. (Fill) after five launderings in accordance with NFPA 1971 test methods. No fabric slippage or filament pull through will be allowed.***

**6. Requires that the outer shell fabric must have tensile strength to resist breaking open, measured by a minimum score of 440 lbs. (Warp) and 420 Lbs. (Fill) for initial testing and 320 Lbs. (Warp) and 310 (Fill) after ten launderings in accordance with NFPA 1971 test methods.**

**7. Requires superior facecloth wickability to protect firefighters from potential burn injuries, reduce firefighter fatigue, and improve fire ground performance. Additionally, the OFD defines acceptable superior facecloth wickability performance as 10 seconds or less using the American Association of Textile Chemists and Colorists (AATCC) Test Method 79-2010; Absorbency of Textiles.**

**8. Requires a rating of 4 (Slight Pilling) or 5 (No Pilling) both before and after washing agitation.**

**9. Will use multiple layers (two layers) of spun lace technology to decrease the likelihood of compression burns. To achieve required protection, the OFD moisture barrier shall be constructed of bi-component ePTFE membrane technologies. The moisture barrier material shall meet all moisture barrier requirements of NFPA 1971-2013 edition, which includes water penetration, viral penetration resistance and common chemical penetration resistance.**

**The OFD requires a maximum evaporative resistance value of 36 m<sup>2</sup> Pa/W, in accordance with the Hohenstein scale, ideally with evaporative resistance values of less than 30 m<sup>2</sup> Pa/W.**

**The OFD moisture barrier laminate shall not show an increase of more than 2.0 m<sup>2</sup> Pa/W from its initial water-vapor resistance (Ret) after being exposed to an elevated temperature of 260°C (500° F) for 5 minutes when tested according to ISO 11092, Textile-Physiological-Measurements of thermal and water vapor resistance under steady-state conditions (sweating guarded-hotplate test).**

**The OFD requires a minimum result of 200 hours with no leakage according to ASTM D-751, Hydrostatic Resistance, Procedure B, Procedure 2.**

**The OFD requires the fluorescent yellow-green garment trim to maintain a minimum RA of 350 or greater when measured at 0.2 degree observation angle/5 degree entrance angle when determined in accordance with the procedure defined in ASTM E808-01 and E809-08.**

***OFD Helmets must transmit a force to the wearer of less than 2200 Newtons during impact, maintain sufficient structural integrity to withstand impacts in all five test locations, have no penetration of the helmet during the Physical Penetration Resistance Test, and shall not leak more than 3.0 mA during the Electrical Insulation Test. Additionally, the helmet shell shall not separate from the suspension with 45 N applied, the chinstrap shall not break, nor stretch more than .8125" when tested in accordance with NFPA 1971, 2013 edition, sections 8.35 through 8.36, and shall not weigh more than 4.5 Lbs.***

***OFD Footwear shall meet the following minimum criteria when tested as indicated in the body of this document: The temperature of the insole surface in contact with the foot nor the upper surface in contact with the skin shall not exceed 111° F. The temperature of the upper lining surface in contact with skin shall have a second-degree burn time of not less than 10.0 seconds, and shall have a pain time of not less than 6.0 seconds. The boot components shall not have an after flame of more than 5.0 seconds, shall not melt or drip, and shall not exhibit any burn through, and footwear shall not have any part of the footwear melt, separate, or ignite; shall show no water penetration; and shall have all components remain functional. The boot upper material shall allow no penetration of the test liquids for at least 1 hour, shall not have a complete cut through after a cut distance of more than .8 Inches, and shall not allow any puncture to the footwear upper after an average applied force of 13 LBF.***

***Additionally, the boot shall allow no penetration of the Phi-X-174 bacteriophage for at least 1 hour, shall have no current leakage in excess of 3.0 mA, and the footwear soles shall not lose greater than 200mm<sup>3</sup> of their volume to shrinkage, and shall have a coefficient of friction of 0.40 or greater.***

***OFD Gloves shall meet the following minimum criteria when tested as indicated in the body of this document: The glove body composites shall have an average TPP rating of greater than 55 and a second-degree burn time of not less than 10 seconds, and shall have a pain time of not less than 6 seconds. The glove shall not melt, separate, or ignite; shall not shrink more than 20 percent in length or width; shall be donnable and flexible; and the glove lining shall not melt, separate, or ignite. The whole glove shall have the dry hand donning time not exceed 10 seconds, shall have the wet hand donning time not exceed 30 seconds, shall have no detachment of the inner liner, shall have no detachment of the moisture barrier, and shall allow full insertion of all digits. The whole gloves shall have an average percent of barehanded control not exceeding 220 percent,***

***and not less than 80 percent. The glove body composites shall not be punctured under a force of at least 40 N. The glove moisture barrier shall have a minimum of burst strength of 20 lbs, show no leakage after 150 cycles, have burst strength of at least 10 psi for 2 minutes, and have a minimum of 5500 gm./m2/24 hours of breathability. 100% of finished gloves must pass the Whole Glove Leak test with air as specified.***

***OFD Protective Hoods shall meet the following minimum criteria when tested as indicated in the body of this document: The hoods shall have an average TPP rating of not less than 25, not shrink more than 10 percent, and shall not melt, separate, or ignite . The blend of fibers making up the hood shall have a LOI rating of 28 or better, shall not exhibit shrinkage of more than 10 percent, and shall have the hood opening meet the requirements specified when new, and shall have burst strength of not less than 225N.***

***Vendors must list/show the TTP and THL for their Garment combinations that they are proposing.***

***Price proposal will be for 10-66 sets of PPE in year 1, and up to 10 sets per year in subsequent years.***

## **Section 5 – Structural Coat and Pant**

### **Sizing**

The sizing criteria shall conform to the requirements of the current revision of NFPA 1971 or its successor. The successful Vendor shall assist the Customer with the measuring of jackets and trousers by providing sizing samples and/or technical advice. Assistance shall be within 2 business days of request or as otherwise agreed.

The jacket shall be available in male and female patterns in even size chest measurements of two-inch increments, and shall range from a small size of 30 to a large size of 60. Alpha sizing or generalized sizing, such as small, medium, large, short, regular, long etc., shall not be permitted.

The trousers shall be available in male and female patterns in even size waist measurements of two-inch increments and shall be available in a range of sizes from 24 to 56. The trouser inseam measurement shall be available in two-inch increments. Alpha sizing or generalized sizing, such as small, medium, large, short, regular, long etc., shall not be permitted.

## **Modular Design**

The protective Coat and Pants shall be of modular design, so thermal barrier/moisture barrier assemblies and outer shells of the same size are interchangeable, allowing a barrier assembly or outer shell to be replaced without replacing the entire garment.

## **Radio Pocket**

Each jacket shall have a pocket designed for the storage of a portable radio. This pocket shall be of box type construction; double stitched to the coat, and shall have one drainage eyelet in the bottom of the pocket. The radio pocket shall accommodate the size of current radios used by agency or its successor and shall be installed on the right or left chest based on the customer's preference.

## **Microphone Strap**

The coat shall have a microphone strap, measuring approximately 1" x 3". The mic strap shall be constructed to hold a microphone for a portable radio. It shall be sewn to the coat at the ends only and positioned 4" above each of the radio pockets. The microphone strap shall be constructed of double layer outer shell material.

## **American Flag**

The coat shall have an embroidered American flag, made with Nomex thread. The placement and location of the American Flag will follow the protocol of the United States Military, which is to be sewn to the upper right sleeve.

## **Retro-Reflective Fluorescent Trim**

The retroreflective fluorescent trim shall be lime/yellow 3M Scotchlite™ Triple Trim. Each jacket shall have an adequate amount of retroreflective fluorescent trim affixed to the outside of the outer shell to meet the requirements of NFPA #1971 and OSHA. The trim shall be in the following widths and shall be 3 inch wide stripes - around the bottom of the jacket within approximately 1 inch of the hem, around the back and chest area approximately 3 inches below the armpit, around each sleeve below the elbow, around each sleeve above the elbow.

### **Reinforced Trim Stitching**

All reflective trim is secured to the outer shell with Nomex® thread, using a locking chain stitch. Two rows of stitching used to attach the trim shall be considered an unacceptable alternative, since it has been proven that the two rows of stitching has insignificant impact on wear life. All trim ends shall be securely sewn into a seam for a clean finished appearance.

### **Flashlight Holder**

A flashlight holder for a Streamlight Survivor light sewn to backing patch of outer shell material is to be attached to right breast are area of coat. The system shall have a hanger tab and then a surrounding Velcro piece of outer shell material to secure light body to chest area.

### **Jacket Lettering**

Each jacket shall be lettered with up to thirteen (13) 3" or 2" lime yellow Scotchlite lettering first sewn to a removable patch that attaches to the outer shell coat. Lettering and placement as specified by the CUSTOMER at the time of the order.

### **Belt**

Belt Loops (6) – 1" wide by 4" wide, shell material belt loops shall be evenly spaced and bar tacked to the shell around the waist to accommodate a belt for the pants.

A belt made of 2" wide KEVLAR webbing, sized to fit each pair of pants, shall be included with each pant. The belt shall be secured by a quick release thermoplastic coupling and shall be fully adjustable.

### **Expansion (Bellows) Pockets**

An expansion pocket, measuring approximately 2" deep by 10" wide by 10" high shall be double stitched to the side of each leg straddling the out seam above the knee and positioned to provide accessibility. The lower half of each expansion pocket shall be reinforced with an additional layer of Kevlar twill material on the inside. Two rust resistant metal drain eyelets shall be installed on the underside of each expansion pocket to facilitate drainage of water.

## **Knee Reinforcements**

The knee area shall be reinforced with an extra layer of a heat resistant aramid reinforced polymer material. The knee reinforcement shall be slightly offset to the inside of the leg to insure proper coverage when bending, kneeling and crawling. The knee reinforcements shall measure 10" W x 12" H and shall be double stitched to the outside of the outer shell in the knee area for greater strength and abrasion resistance.

## **Padding Under Knee Reinforcements**

Each pant will have a padded reinforced knee patch. The padding shall be sewn to the exterior of the outer shell with a reinforcement material patch. The padding shall increase thermal protection and provide for increased comfort in the knee area. The knee reinforcement patch shall be 10" x 8". The reinforcement material shall consist of a heat resistant aramid reinforced polymer.

## **Retro-Reflective Fluorescent Trim**

The trousers shall have a stripe of retro-reflective fluorescent trim encircling each leg below the knee to comply with the requirements of NFPA #1971 (2007 revision) in 3-inch lime/yellow 3M Scotchlite™ Triple Trim (L/Y borders with silver center).

## **Reinforced Trim Stitching**

Trim shall be secured to the shell with four rows of lock stitching.

## **Coat and Pant Options**

The VENDOR shall provide a cost for the following items as additional equipment and/or as appropriate upgrades to the equipment specified above.

The pricing shall be separated and individually broken out from the main bid.

The CUSTOMER may elect to add any and/or all of the following options based on cost, priority and availability of funding:

- Suspenders & Attachment: Additional suspenders and attachments for replacements as needed.
- Enhanced Knee Padding

## **Section 6 – Protective Hood**

The protective hood shall be available in multiple lengths. The VENDOR shall provide a bid for each length and material.

## **Section 7 – Helmet Specifications**

The VENDOR shall provide detailed specifications and a bid on a minimum of three different modern and traditional style helmets for structural firefighting. Minimum specifications for the helmets are as follows:

### **Shell**

The shell shall consist of a composite material consisting of a high-temperature-, flame and chip-resistant, “through-colored” thermoset resin, reinforced with 1” and 2” chopped fiberglass, which is compression molded to form a one piece shell. The “through-colored” thermoset resin is pigmented to match the color of the paint.

The exterior of the molded shell shall be of a matte finish and not painted. The shell color and matched paint finish shall be available in the standard colors of white, red, black, and yellow.

The shell shall have black (white shall be used on white helmets) high-temperature, flame-resistant, flexible edge trim composed of an aluminum-cored, thermoplastic rubber (TPR). The edge-trim shall be secured around the entire brim of the helmet by crimping the aluminum core, and secured at the mating ends with a high temperature adhesive and clamped by the helmet hanger clip at the edge of the rear brim.

The shell shall have a helmet hanger comprised of a 3/4”, nickel plated “D” ring and a stainless steel clip. The helmet hanger shall be attached to the center rear of the brim.

### **Sizing Adjustment**

The size of the headband shall be adjusted to fit the wearer’s head by means of a ratchet adjustment system. The headband shall have a head size range of 6-3/8 to 8-3/8, adjustable in 1/8 increments. The head band shall be attached to the sides of the impact cap liner by four (4) flexible retention tabs. The rear ratchet arms shall have three (3)

adjustable positions so that the angle of the ratchet may be set to accommodate the nape of the wearer's head.

### **Section 8 – Glove Specifications**

The VENDOR shall provide detailed specifications and a bid on a MINIMUM of three different models of high quality structural firefighting protective gloves. All gloves shall be specifically designed and constructed for structural firefighting activities and be manufactured of material designed sharp objects and other hazards that are encountered during structural firefighting to withstand the effects of flame, heat, vapor, hazardous liquids, operations.

Gloves shall be available in a minimum of 5 sizes.

### **Section 9 – Protective Boot Specifications**

The VENDOR shall provide detailed specifications and a bid on a MINIMUM of three different high quality structural firefighting protective boots to include the following:

Rubber, insulated bunker style structural firefighting safety footwear with lug sole;  
and

Leather bunker style (14") structural firefighting safety footwear with oblique safety toe footwear with Vibram® FIRE sole.

 Structural and Wildland Personal Protective Equipment (PPE)

Structural Turnout Coat & Pant	Item Description	Manufacture	Part #	Cost
Structural Firefighting Turnout Coat				
Structural Firefighting Turnout Pant				
Flashlight Holder				
Kevlar Belt				
Padding Under Knee Reinforcements				
Suspenders and Attachments				
Enhanced Knee Padding				

Protective Hood	Item Description	Manufacture	Part #	Cost

Structural Helmet	Item Description	Manufacture	Part #	Cost
Structural Helmet, Modern w/Face Shield				
Structural Helmet, Modern w/Goggles				
Structural Helmet, Modern w/ Retractable Visor				
Structural Helmet, Traditional w/Face Shield				
Structural Helmet, Traditional w/Goggles				
Structural Helmet, Traditional w/ Retractable Visor				

Structural Gloves	Item Description	Manufacture	Part #	Cost
Structural Gloves S - 2XL				
Structural Gloves S - 2XL				
Structural Gloves S - 2XL				

Structural Boots	Item Description	Manufacture	Part #	Cost
Rubber, Insulated Bunker Structural Boot				
Leather Bunker Style (14") Structural Boot				