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(For City of Glendale Use Only)



CITY OF GLENDALE MATERIALS MANAGEMENT INVITATION FOR BIDS

| SOLICITATION NUMBER: |
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PUBLISHED DATE: FEBRUARY 11, 2016

TITLE: FIREFIGHTER TURNOUT GEAR

BID DUE DATE AND TIME: MARCH 1, 2016 BEFORE 2:00 PM (Local Time)

Bids for the materials or services specified will be received by the City of Glendale, Materials Management at the below specified location prior to the time and date cited. Bids received by the correct time and date will be opened at 2:00 P.M. and the name of each bidder and the amount of the bid will be publicly read.

SUBMITTAL LOCATION: City of Glendale

Materials Management

5850 West Glendale Avenue, Suite 317

Glendale, Arizona 85301

Bids must be in the actual possession of Materials Management prior to the time and date, and at the location indicated. Materials Management is located on the third (3rd) floor of the Glendale Municipal Complex (City Hall) in the Engineering Department. Bids are accepted from the hours of 8:00 am and 5:00 pm, Monday through Friday, unless otherwise indicated for a holiday. All bids will be received, and time/date stamped at the Engineering Department's front counter. Late Bids will not be considered.

The City of Glendale is closed in honor of President's Day, Monday, February 15, 2016.

Bids must be submitted in a sealed envelope with the <u>Solicitation Number</u> and the <u>Bidder's name and address</u> clearly indicated on the envelope. **See Paragraph 2.2 for additional instructions for preparing a bid.**

BIDDERS ARE STRONGLY ENCOURAGED TO CAREFULLY READ THE ENTIRE SOLICITATION.

For questions regarding this solicitation contact:

Crista Clevenger, Contract Analyst (623) 930-2865 CClevenger@Glendaleaz.com



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1.0 SPECIFICATIONS

1.1 **PURPOSE AND SCOPE**:

It is the intent of the City of Glendale Fire Department to purchase firefighter personal protective equipment, hereafter referred to as PPE, on an "as needed" basis. Bid specifications shall define the minimum requirements and standards for the manufacturer furnishing items required including firefighting helmets, turnout coats and turnout pants, hoods, gloves, boots and turnout cleaner/soap.

In the absence of specific comment on particular items, the industry standard practice will be presumed to prevail. Workmanship and quality shall be of the highest quality throughout. The safety of our members is our primary concern, considering that, some items that are specified are not subject to exception.

1.2 COMPLIANCE OF STANDARDS AND REGULATIONS:

Section 1.2.1 through Section 1.2.17 Shall apply to all PPE purchased by the City via this solicitation which shall include helmets, turnout coats and turnout pants, hoods, gloves, and boots.

Manufacturer shall be tested and certified compliant to all performance and design requirements of (NATIONAL FIRE PROTECTION ASSOCIATION) NFPA 1971 and NFPA 1851.

NFPA does not recommend any particular lab or certification organization, and they must all meet the same standardized and accepted requirements. Upon City request the manufacturer shall submit written verification that the items being offered meet or exceed all requirements of NFPA 1971 (2013 Edition) and NFPA 1851 (2014 Edition).

All subsequent mention of NFPA 1971 will be the 2013 edition; NFPA 1851 will be the 2014 edition.

All garments produced shall meet or exceed the applicable criteria set forth in:

- NFPA 1971, STANDARD ON PROTECTIVE ENSEMBLES FOR STRUCTURAL FIRE FIGHTING AND PROXIMITY FIRE FIGHTING
- NFPA 1851, STANDARD ON SELECTION, CARE, AND MAINTENANCE OF PROTECTIVE ENSEMBLES FOR STRUCTURAL FIRE FIGHTING AND PROXIMITY FIRE FIGHTING
- FED-OSHA CFR 1910, Subpart L,
- OHSA 29 CFR Part 1910.1030
- 1.2.1 NFPA CERTIFICATION/TRAINING: With the ever changing advancements in technologies of care and maintenance of protective clothing, the City requires the manufacturer to provide training, certification and re-certification in accordance to manufacturer guidelines and NFPA standards. This education will include the care and maintenance of repairing and inspecting turnout garments with the manufacturer and a representative of Glendale Fire Department. With the provided information, the City must be able to train and certify other city members to render care and maintenance. Any additional needs or requirements identified in any updates any NFPA Standards applicable must be conveyed to the City of Glendale Fire Department representative. This training shall be at no cost to the City.



- **1.2.2 CERTIFICATIONS AND ADDITIONAL MANUFACTURER REQUIREMENTS:**Each proposal shall include complete Underwriters Laboratories certification documents for the manufacturer, materials and seam strength tests on all items proposed. All UL certification documents shall be made available, certifying all proposed products upon request. All garments must be tested and listed by Underwriter's.
- **1.2.3 SAMPLES:** Samples may be requested by the City's Fire Department as part of the evaluation process. If samples are requested for fit, One (1) sample will be required. If samples are requested for field testing, Eight (8) samples will be required. The warranty shall accompany said sample(s). The Bidder shall supply the sample(s) to the City, at no cost to the City, and the sample(s) shall become the property of the City of Glendale Fire Department and will not be returned.
- **1.2.4 RESEARCH AND DEVELOPMENT:** With the ever changing advancements in technologies of fabrics and designs for protective clothing, we will require assistance in research and development from the manufacturer. Those requirements are as follows: There shall be a research and development opportunity for Fire protective items, with the manufacturer or distributor and a representative of Glendale Fire Department. This assembly shall be at a mutually agreed place and time, at least once per contracted year and shall be at no cost to the City. The manufacturer shall provide research and development items at no cost to the City, if requested. The wear test shall include new technology fabrics and/or designs and must be approved by Glendale Fire Department prior to construction.
 - The City of Glendale reserves the right to be a part of wear testing any new products of research and development. Any wear test sample(s) shall comply with 1.2.3.
- **1.2.5 NEW PRODUCT AVAILABILITY:** If any awarded contract brand creates a new product during the life of this contract, the City's Fire Department shall have the option to purchase items at a brand discount. The discount shall be a percentage of the list price for any other awarded brand products, not specifically listed, that may be requested due to operational needs at a 20% reduced retail price.
- **1.2.6 DISCONTINUATION OF CONTRACTED ITEM:** If the manufacturer discontinues a contracted item, the manufacturer or designee shall provide the department with ample warning, minimum of six (6) months, and at least two (2) alternative options that will meet or exceed current contracted item. **Any of these alternative options shall be considered samples and shall comply with 1.2.3.**
- 1.2.7 LIABILITY CONSIDERATIONS: The manufacturer shall agree to defend the Glendale Fire Department and the City of Glendale, Arizona at the manufacturer's own expense, in any and all suits, actions or proceedings in which the Department is made a defendant for actual or alleged infringement of any United States of America or foreign letters patent as a result of the goods purchased in correlation to this request for proposal. The manufacturer further agrees to pay and discharge any and all judgments or decrees which may be rendered in any such suit, action or proceedings against the department. The seller also agrees to hold harmless and indemnify the buyer from any and all licenses, royalty and proprietary fees or costs, including legal fees, which may arise out of buyer's purchase and use of goods supplied by the seller. It is expressly agreed by the seller that these covenants are irrevocable and perpetual.
- **1.2.8 WARRANTY:** Manufacturer must provide at time of bid a written statement of warranty terms. Manufacturer shall guarantee items to be free from any defect in material or workmanship for the life of the product. The successful bidder must be able to provide an



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immediate remedy of stock and/or support of any warranty replacement needs should they arise within the City specified timeframe (sec. 1.2.9)

All warranty work shall be provided on a no charge basis.

Manufacturer shall describe in detail how they plan to provide warranty repairs during the warranty period. The manufacturer shall designate a local full repair service available on weekdays, and a liaison available to assist the department on a telephone consultation basis, on any warranty, maintenance, order or repair questions. This shall be available during normal business hours.

The awarded manufacturer or local **Independent Service Provider (ISP)** will perform any major repair work on damaged garments at a cost only basis and expedite same, within eight (8) working days, over the life of the contract.

All fabrics and clothing must be manufactured in the United States of America by companies with their assets and incorporation within the United States of America.

1.2.9 **DELIVERY:** The awarded bidder shall commence shipments F.O.B. the City of Glendale, Fire Department within four (4) weeks after receipt of order. Reorders shall be processed within a similar time frame. For emergencies defined by the department as contamination, new hire firefighter trainee classes and excessive number of emergency related damages the awarded manufacturer shall agree to provide at no extra cost, delivery within ten (10) days. **There shall be no oversize up charging or additional costs on garments outside the "normal" range of sizes.**

All deliveries shall be made between the hours of 6:30 a.m. and 2:30 p.m., local time, Monday through Friday, excluding City holidays. Deliveries shall be made to:

City of Glendale Attention: Fire Department 6210 W. Myrtle Avenue, Suite 181, Bldg N. Glendale, Arizona 85301 623-930-2690

- **1.2.10 USER INFORMATION GUIDE:** Each garment shall include a User Information Guide with information required by NFPA 1971.
- **1.2.11 CLEANING INSTRUCTIONS:** The manufacturer shall provide instructions for cleaning and care of the garment, including limitations in a form designed for the end user (firefighter). These instructions shall be packaged with each garment along with a summary sheet describing garment specifications, sizing and production details. This written information is to be in complete compliance with all applicable NFPA guidelines, and shall reference same. Garment washing, break in requirements, and retirement considerations shall be clearly defined.
- **1.2.12 TRACEABILITY:** The manufacturer will have in place a computerized current traceability program that allows the assignment of a production control number to each garment and traceability from that control number down to individual bolts of fabric or materials used in all layers of the garment. This will include the ability to track individual work stations that processed the garment. Production control number shall be recorded on the garment label and on another protected area of the garment in permanent ink.



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- **1.2.13 LABELING:** Label will be permanently attached and state all NFPA Standard requirements are met. The ink used for providing this information shall be capable of surviving normal use and washing, remain readable for the life of the garment. Label shall be durable and include the name or designation of manufacturer; model; name or style number; lot or serial number; size; date of certification tests; patent numbers; cleaning and care instructions.
 - Any additional Hang-up loops, bindings, labels or production labels shall comply with NFPA 1971 Flame Resistance Test One for vertical flammability of cloth.
- **1.2.14 QUALITY:** Bidder expressly warrants that all goods or services furnished under this contract shall conform to the specifications, appropriate standards, and will be new and free from defects in material or workmanship. Should there be a quality issue, manufacturer shall address said issue immediately.
- **1.2.15 WORKMANSHIP:** Where not more specifically described in any of the various sections of these specifications, workmanship shall conform to all of the methods and operations of best standards and accepted practices of the trade or trades involved, and shall include all items of fabrication, construction or required for completion of the services. All work shall be executed by personnel skilled in their respective lines of work.
- **1.2.16 REPAIR AND REPLACEMENT PARTS:** Repair or replacement parts for existing equipment may NOT be accomplished by using any other than original or manufacturer approved replacement parts. All parts or equipment furnished must be equal or exceed that of the original equipment manufacturer(s) in material and warranty.
- **1.2.17 BIDDER'S COMPLIANCE WITH HEALTH, ENVIRONMENTAL AND SAFETY REQUIREMENTS:** The Bidder's products, services and facilities shall be in full compliance with all applicable Federal, State and local health, environmental and safety laws, regulations, standards, codes and ordinances, regardless of whether or not they are referred to by the City. At the request of the City representatives, the Bidder shall provide the City:
 - Environmental, safety and health regulatory compliance documents (written safety programs, training and records, permits, etc.) applicable to services requested.
 - A list of all Federal, State and local citations or notice of violations (including but not limited to EPA, OSHA, Maricopa County) issued against the Bidder or any subcontractors including dates, disposition and resolutions.
 - The City further reserves the right to make unannounced inspections of the Bidder's facilities (during normal business hours).

1.3 STRUCTURAL HELMET – CONSTRUCTION REQUIREMENTS:

This specification details minimum requirements for materials, design and construction features to be incorporated in structural firefighting helmets. Hereafter referred to as, helmet. Each manufacturer must carefully read these specifications and respond to any and all requests for compliance. Failure to do so may be the cause for rejection of the bid.

- **1.3.1** COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.3.2 OUTERSHELL** Shall be of a high pressure molded construction to form the composite material. The entire outer shell shall be composed of a blend of 60% random chopped fiberglass, and 40% FR resins, FR additives and colored pigments shall be available in colors of black, white, red, yellow and green. The color shall be molded throughout. Paint or



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coatings on the shell are not acceptable due to the inherent problems with chipping and durability.

The design of the helmet shall be of modern design and not the "traditional" style. Brim shall be down sloping and there shall be a strengthening rib down the center of the helmet running front to rear. Shell minimum thickness shall be .070"

- **1.3.3 SUSPENSION SYSTEM** The suspension shall be of an eight way universally adjustable design that is completely isolated from any external heat exposure. The suspension system shall allow for a low center of gravity for the wearer.
- **1.3.4 BRIM EDGE TRIM -** The brim edge trim on all helmets shall be back impact resistant and fire resistive. All beading shall be bonded to the helmet edge with high temperature resistant adhesive. Preferably, the helmet shall have a high-temperature edge trim with a metal core.
- 1.3.5 HELMET HARDWARE AND THREAD REQUIREMENTS -

All threaded rods, machine bolts and screws, dowel rods and hex nuts shall be stainless steel. All dome nuts, acorn nuts and threaded inserts where used ion molded parts shall be solid brass. All split style lock washers used shall be bronze. Postman slides for chinstraps shall be nickel plated zinc alloy. Quick release buckles for chinstraps shall be Delrin large style. No rivets of any kind are permissible in the assembly of this helmet. All flat washers shall be stainless steel. All thread used in the earflaps shall be of Nomex Craq Spun Tex 70.

- 1.3.6 HELMET HANGER LOOP AND BRACKET A circular hanger loop with at least one inch 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 and fastened to the helmet with a machine bolt, lock washer and dome nut meeting hardware specifications aforementioned.
- **1.3.7 FACE SHIELD MOUNTING BRACKETS** Shall be aluminum or a fiber reinforced thermoplastic with threaded inserts to accept mounting bolts. Brackets shall be mounted using bolts that pass from below, then upward through the brim using the aforementioned hardware.
- **1.3.8 INTERNAL PROTECTION SYSTEM -** The preference is for a helmet that does not require an internal protection system due to the added weight; however, if an internal protection system is required, it shall be comprised of a two part system with at least a .125" thick piece of expanded thermo plastic against the outer shell. The inner liner next to the wearer's head shall be of a strip of monolithic .100" polycarbonate.
- **1.3.9 SUSPENSION HEADBAND AND RETENTION SYSTEMS -** The suspension, headband and retention systems 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 eight way overhead suspension system.

Suspension mounting ring shall be of injection molded high temperature thermo-plastic and firmly attached to the shell with two bolts each at the right and left side molded in areas, and one screw each at the front and the rear using hardware that meets specs. The mounting ring shall have eight bosses to accept the mounting tabs for the overhead suspension system. The minimum bottom of the ring opening shall be of no less than 19.6 cm from side to side, and no less than 23.5 cm front to rear to accommodate personnel with larger heads and the use of specialized firefighting gear.

Padded headband excluding ratchet assembly shall consist of a one piece injection molded part for strength, durability and comfort. Multi piece headbands are unacceptable.



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Self-extinguishing ¼" thick padding shall be applied with pressure sensitive adhesive and run from above and behind each ear and all the way around the brow, while using a separate piece to cover the contact area of the ratchet.

The headband will mount to the suspension tabs by a "T" connector that fits through the suspension tabs at the four diagonal bosses. Each tab and boss shall allow for four adjustable headband settings. The sizing of the headband shall allow for firefighter's heads having measurements of 6 to 9.5 which will eliminate the need for multiple separate sizes of headbands.

The headband ratchet cover will be made using black 7.0 ounce FR cotton low pilling twill laminated to breathable .135" FR padding. The FR padding in turn shall then be laminated to a layer of breathable black Veltex. Both the headband and ratchet cover shall completely wrap around their respective components and be removable or replaceable for washing and or replacement purposes by means of hook fastener tape.

- **1.3.10 EYE PROTECTION MOUNTING SYSTEM -** Shall be NFPA 1971 certified and shall be provided by use of non-conductive materials. Mounting bracket shall be aluminum injection molded, non-conductive fiber reinforced thermo-plastic. Brackets shall provide for easy one handed operation. Face shields shall be 4" by .110" APEC with reinforced end covers.
- **1.3.11 REFLECTIVE TRIM** Reflective trim shall be five lime yellow 1'x4' reflexite bars, two on each side and one centered on the rear of the brim.
- 1.3.12 EAR COVERS/FLAPS Standard ear covers shall be constructed in the following manner: an outer layer of 7.5 oz Basophil nomex fabric preferably golden brown; an inner layer of 7.0 oz FR cotton flannel and a ½" Nomex webbing mounting strip along the top outside edge. Nomex tape mounting strip shall be looped over the four diagonal suspension /headband mounting tabs and the fifth tab at the center rear when the suspension/headband is installed.
- **1.3.13 WINTER LINER** A winter liner to provide padding and heat protection will be provided to place in the crown portion of the suspension and shall be constructed of the same materials as the earflaps.
- 1.3.14 CHINSTRAP The chinstrap shall be made of 3/4" black Nomex spun fiber webbing and incorporate a quick release buckle on the wearer's right side; 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 Velcro hook and loop fastener strap. Strap shall be installed by inserting the looped ends of the chinstrap up and through the slots in the bottom of the wings on the suspension mounting ring. Retention of the chinstrap shall be made by inserting dowel pins meeting the hardware specifications through the end loops before the mounting ring is installed.
- **1.3.15 WARRANTY** Manufacturer must provide at time of bid a written statement of warranty terms. Manufacturer shall guarantee the helmets to be free from any defect in material or workmanship for the life of the product. Manufacturer shall guarantee for five (5) years, from the date of manufacturer, the shell against damage or the ability to wear out during normal firefighting and or training activities. This warranty excludes helmets for parts that are lost due to acts of nature or negligence. The successful bidder must be able to provide a local distributor with stock to support any warranty replacement needs should they arise.
- **1.4** TURNOUT GARMENT/COAT AND PANT CONSTRUCTION REQUIREMENTS: It is the desire of the City of Glendale, Arizona, Fire Department that the coat and pant be manufactured by the same provider, to insure consistency, and to avoid liability and interface



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problems. Manufacturer warranty terms and duration shall be the same for the turnout coat and turnout pant and shall be provided on a no charge basis.

- 1.4.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.4.2 ADDITIONAL LABELING:** The garment shall provide head to toe blood-borne pathogen resistance protection, including the interface areas, as defined by the NFPA 1971 Viral Penetration Resistance Test using the Phi-X174 bacteriophage, in conjunction with the NFPA 1971 Whole garment Liquid Penetration Test.

TRACKING LABEL SYSTEM: There shall be a two (2) dimensional bar code label permanently affixed to each garment for tracking purposes. The bar code shall contain a minimum of the following information on every separable layer in an obvious location:

- a) Unique serial number
- b) Item description (size, brand, model, material color)
- c) Lot information (date of mfg., size, etc.)
- d) Material content
- e) The standard to which the garment is compliant
- f.) Warnings
- **1.4.3 THREAD:** The thread used in the construction of the coat and pant shall be the same, all thread shall be Nomex of minimum TEX T-60. Seam minimums:
 - a) All major A Seams should be a minimum of TEX T-90
 - b) All non-major A Seams should be a minimum of TEX T-60
 - c) All major B Seams should be a minimum of TEX T-60
 - d) All moisture barrier seams should be a minimum of TEX T-80
 - e) All safety serge stich seams on thermal liners can be a combination of TEX T-90 and TEX T-60
- **1.4.4 STITCH METHODS:** The stitching methods used in the construction of the coat and pant shall be the same. In addition, all moisture barrier seams shall be tape sealed to meet NFPA liquid penetration requirements as per NFPA 1971.

Stress points, including top and bottom pocket corners, pocket flap corners, top and bottom of storm flap/fly, shall be reinforced using a forty-two (42) stitch minimum bar tack.

NOTE: There shall be no raw edges in any uncoated fabrics.

NOTE: All reinforcements at points of strain shall be accomplished with forty-two (42) stitch bar tacks.

- **1.4.5 MATERIALS FOR COAT AND PANTS:** The turnout garment shall be constructed of the following materials in the following multi-layer configuration. The garment composite, consisting of the outer shell, moisture barrier and thermal liner, shall provide a Thermal Protective Performance (TPP) of not less than 40.2 and a Total Heat Loss (THL) of not less than 271.3 when tested in accordance with NFPA 1971 standard. The turnout coat and pant shall be of the same materials and configuration.
- **1.4.6 OUTER SHELL MATERIAL:** The outer shell shall be constructed PBI® Max, 7oz with Filament Twill TechnologyTM; 70% PBI®/DuPont KEVLAR® spun yarns/30% 600 denier DuPont Kevlar Filament with an extremely durable FPE water resistant Teflon® FPE alloy finish. The coat and pant color shall be Natural in color.



- **1.4.7 MOISTURE BARRIER MATERIAL:** The moisture barrier shall be constructed of CROSSTECH® Black, (Type 2F); NFPA 1851 (2014 edition), 5.0 oz/sq yard. Moisture barrier shall be installed in the garment between the outer shell and the thermal liner. Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. Systems that leave the thermal liner unprotected against fireground liquids and other contaminants are unacceptable. All moisture barrier seams shall be sealed as required by NFPA 1971.
- **1.4.8 BREATHABILITY REQUIREMENTS:** Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom options section, all materials used in the construction of the garments shall be breathable.
- **1.4.9 THERMAL LINER:** The thermal liner shall be comprised of Glide[™] high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz/sq/yd. The Kevlar filament yarns shall represent no less than 60% of the face cloth's composition and shall be positioned in the warp direction of the weave in order to optimize their slippery characteristics on the face. Nomex spun yarns, with superior wicking characteristics, shall be used to promote moisture management within the garment. The Glide[™] face cloth shall be quilted to one layer of apertured (11-13 apertures/sq. inch) spunlace aramid (85% NOMEX®/15% KEVLAR®) weighing approximately 1.5 oz./sq. yd with a Teflon® finish to promote minimal moisture stored in the garment microclimate as well as promote rapid drying. An additional layer of 3.0+ oz. /sq. yd. NOMEX® Chambray face cloth with a Teflon finish shall be positioned toward the outer shell. This layer provides additional thermal insulation and is treated with a Teflon finish to promote minimal moisture storage in the garment as well as promote rapid drying (Total weight +/- 8.0 oz. /sq. yd.)
- **1.4.10 MOISTURE BARRIER/THERMAL LINER ATTACHMENT:** The moisture barrier/ thermal liner shall be completely detachable from the outer shell for ease of cleaning by the use of hook and loop, zippers, and snaps. There shall be a thermoplastic zipper down each front facing, hook and loop along the neck to interface with collar as well as hook and loop and one snap at each sleeve end. The design should provide continuous moisture/blood-borne protection at the sleeve and ankle attachment areas. All other requirements per NFPA standard 1971 will apply.
- **1.4.11 REINFOREMENT MATERIALS:** Reinforcements shall be provided at cuffs, pockets, elbows and shoulders; shall meet the requirements of NFPA 1971.
 - **1.4.11.1 CUFF REINFORCEMENT:** Shall be of Black Polymer coated aramid cuff reinforcement to prevent abrasion of the cuff. This shall be a minimum of three inches (3") of total width, for the full circumference of the cuff. The cuff reinforcement on the coat and pant shall be double stitched.
 - 1.4.11.2 SEAM ABRAISION SHIELD: On the inside seam of each pant leg at the cuff and each sleeve at the wrist, shall be an abrasion shield of an additional layer of Black Poly-coated aramid, three-half inches by three inches (3½" wide x 3" long) on the outer shell component to reduce rip out and abrasion friction along the seam.
 - **1.4.11.3 POCKET REINFORCEMENT:** BLACK PCA four inches (4") up all four (4) sides on outsides of pockets for reinforcement of the pocket. Any change of certified materials for pocket reinforcements, the manufacturer shall identify the additional cost for the specified material.



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- **1.4.11.4 ELBOW REINFORCEMENT:** Shall be of Black Polymer coated KEVLAR® with one-eighth inch (1/8") thick Lite-N-DriTM cushioning.
- **1.4.12 REFLECTIVE TRIM:** The reflective trim shall consist of three inches (3") Ventilated ScotchliteTM Triple Trim lime/yellow and be of the same materials on the coat and pant.

Reflective trim at the cuffs of sleeves and pants are not to be incorporated into the major A and B seams of the garment. They are to stop a minimum of half an inch (1/2") from the seam on the medial aspect of the legs and the lateral aspect of the arms. Shall comply with requirements as per NFPA 1851.

All reflective trim shall be sewn with four (4) rows lockstitch 301, minimum six (6) stitches per inch for most secure trim attachment.

1.5 COAT CONSTRUCTION REQUIREMENTS:

The turnouts shall be constructed of the above stated materials in a multi-layer configuration for the turnout coat and pant. It is the desire of the City of Glendale, Arizona, Fire Department that the pants be manufactured by the same provider as the coat, to insure consistency, and to avoid liability and interface problems. Manufacturer warranty terms and duration shall be the same for turnout coat as it is stated for turnout pant. All warranty work shall be provided at no cost to the City.

- 1.5.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- 1.5.2 PATTERNING REQUIREMENTS COAT: Garments be of 3-panel construction in all layers, shall feature Freedom design fully featured with Bi-swing Back for mobility and to eliminate tugging or binding at the shoulders. The design of all three (3) layers shall not have a gap when the firefighter is bending, crawling or climbing. Back shall include a removable accountability patch. Sleeves shall be of full length and of shoulder insert, 2-panel type design. Freedom Elbow design to allow the arm to bend freely while keeping the wrist protected and reducing sleeve travel. The design and cut of the construction throughout the outer shell, moisture barrier and thermal liner should properly interface. The liner should consist of vented features. Underarm bellows shall be included to reduce hem rise and sleeve travel. The Heat Transfer Index rating shall be a minimum of twenty-five (25) seconds for the shoulder when measured at two (2) psi (pounds per square inch). The moisture barrier/thermal liner shall finish no more than one inch (1") from the cuffs and three inches (3") from the hem.

Quilt "Center Cut" Thermal Liner Construction: The moisture barrier shall be completely sewn to a Teflon® treated NOMEX® facecloth at its perimeter. The moisture barrier substrate/facecloth combination will be sewn to the quilted thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. The quilted thermal liner will be oriented toward the wearer. The moisture barrier/thermal liner shall finish no more than 1" from the cuffs and 3" from thehem.

One piece garments shall not be acceptable in any layers.

1.5.3 THERMAL REINFORCED YOKE: A layer of Semper DriTM, Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two (2) layers of Nomex®/Kevlar® spunlace and a layer of quilted Nomex®/Kevlar® spunlace with no face cloth shall be positioned between the moisture barrier and thermal liner for extra thermal protection in a high heat and compression area of the coat. It shall be sewn to the inside of the upper back portion of the thermal liner across the upper back from the back shoulder and collar seams seven inches (7") down, over the tops of shoulders and down the front approximately 4" ending at the armhole.



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- **1.5.4 SHELL YOKE REINFORCEMENT:** A layer of Semper DriTM (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to NOMEX®/Kevlar® spunlace (Total weight +/- 6.0-6.8 oz./sq. yd.)) shall be sewn under shell completely across pleated back approximately seven inches (7") in length. It shall be sewn to the inside of the upper back portion and sleeve eight inches (8") in length and twelve inches (12") across the sleeve.
- **1.5.5 INSPECTION PORT**: An inspection port, secured with hook and loop fastener shall be provided in the center left front area to allow the entire interior of the moisture barrier/ thermal liner assembly to be inspected in the field for wear and burn spots without unstitching garment. The port should be a ten inches (10") wide to allow for hydrostatic testing. The Liner Inspection System shall be completely hidden when the liner is properly installed into the outer shell.
- **1.5.6 COAT RISE:** with arms extended overhead shall not exceed more than four inches (4") at maximal extension and a minimum of three inches (3") overlap of the outer layer, two inches (2") of thermal layer, must remain over the pant at waist. Shell and liner retraction at the cuff shall not exceed one inch (1") when both arms are raised overhead on properly fitted garments.
- **1.5.7 HANG UP LOOP:** a hang up loop made of a triple layer of self-fabric shall be securely reinforced with two forty-two (42) stitch bar tacks on the outside of the coat at the collar seam. Webbing is not acceptable. Hang up loop shall be of a minimum 80 lbs. capacity.
- **1.5.8 SIZING:** The sizing shall not allow a gap when the firefighter is bending, crawling or climbing. Sizing: sizing shall be provided in one (1") inch increments including but not limited to, chest size, arm length, coat front and back lengths.
 - Garments ordered for women members shall be cut on women's patterns, not on modified men's patterns.
 - Custom sizing shall be provided as needed.
- **1.5.9 COAT LENGTH:** The coat shall be designed so that it does not interfere with the natural flexing of the wearer's leg when walking, running or climbing. The coat must at all times provide of at least three inches (3") of overlap when reaching or flexing side to side with the wearer's hands extended overhead, as specified in NFPA 1500. Standard sizing shall be from twenty-nine inch (29") to forty-one inch (41") lengths. Size may be custom tailored for longer bodied firefighters. The coat shall protect against exposure above the waist when bending or reaching.
- **1.5.10 LABEL LINER POCKET:** Liner label shall be incorporated into one (1) pocket, eight and a half inches by eight and a half inches (8.5" x 8.5") design located on the front right side of liner and consist of black outer shell material.
- **1.5.11 SLEEVES:** Wrist exposure must not occur with overhead extension. Cuff, shell, liner retraction shall not exceed 1 inch (1") when both arms are raised to eliminate wrist exposure. Sleeves shall be of full length and of shoulder insert, 2-panel type design. Pieced in underarm gussets are not acceptable. Sleeves shall be patterned and designed to eliminate coat hem rise.

A combination Semper DriTM (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two (2) layers of Nomex®/Kevlar® spunlace and one (1) layer of breathable CROSSTECH® Black (Type 2F) leader shall be sewn no more than one inch (1") back from the combination liner sleeve end to form a sleeve well. Attached by snap and hook and loop sewn full circumference to the end of the thermal liner/CROSSTECH® Black (Type 2F) moisture barrier leader to help secure the combination liner to the outer shell. This sleeve



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well shall reduce gaps, water and hazardous materials from entering the sleeve when arms are in a raised position and allow for a full range of motion without binding.

- **1.5.12 BELLOWS UNDERARMS:** Bellows underarm construction shall be used in all layers of the coat-outer shell/moisture barrier/thermal liner-ensuring maximum upper body freedom of movement including complete arm mobility when reaching up and/or forward; shall extend to all inner layers of the coat. The outer shell/moisture barrier/thermal liner bellows shoulder construction shall consist of an underarm and shoulder bellows of elongated football shape not less than eight inches (8") wide by not less than fifteen inches (15") long sewn into each of the coat fabric layers by two-needle construction. The bellows in each layer shall begin at a point corresponding to the front of the armpit, wrap around under the arm and shoulder joint, and terminate at the rear top of the shoulder.
- **1.5.13 WRISTLET EXTERNAL:** External Wristlet: shall consist of 2-ply knit of 48% NOMEX®/48% KEVLAR® and 4% Spandex, a six inches (6") long outer wristlet, which shall be mounted to the end of each inner sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.
- 1.5.14 WATERWELL AND INTERNAL WRISTLET: A eight inches (8") isodri® over the hand, consisting of KEVLAR®/NOMEX®/Spandex® wristlet in place to protect from flame and moisture must be featured on every garment. Inner wristlet shall be sewn to the thermal liner sleeve end and not the outer shell. A specified moisture barrier water well with an elastic gather shall be sewn to the moisture barrier sleeve end with all seams sealed to allow maximum channeling of water away from inside the moisture barrier/ thermal liner sleeve end and pass the whole garment water tight integrity test. The thermal liner/wristlet shall be forty-two (42) stitch bar tacked and seam sealed at the junction of the moisture barrier sleeve to water well seam to prevent liner pull out. This inner water well assemble shall be interface capable with the appropriate glove to provide wrist protection during the liquid tight integrity test. The inner wristlet shall provide complete wrist protection from immediate exposures.
- 1.5.15 COLLAR: Collar flashing shall be of three inches (3") self-fabric, fully lined with Crosstech® Black lined split collar with hook and loop for attachment to the shell. The collar shall be configured such that when the collar is raised it shall remain standing while providing continuous thermal and moisture protection around the neck and face. Each collar shall be graded for individual coat sizes. Design shall provide comfort, protection, and confirm the wearer's neckline is completely protected and not to interfere with SCBA face mask or helmet.
- **1.5.16 SHOULDER CAPS:** A four inches (4") wide area at the top of the shoulders extending six inches (6") from the collar seam shall be capped with self-fabric for abrasion resistance and thermal protection. For additional thermal protection and cushioning, one (1) layer of uninterrupted one-eighth inch (1/8") thick, fire retardant closed-cell foam shall be oriented between the outer shell and the shoulder cap reinforcement.
- 1.5.17 LINER AND DESIGN ATTACHMENT: Liner shall consist of vented design. Coat inner yoke reinforcement shall be of one (1) layer Semper Dri®, one (1) layer front and back yokes sewn to coat thermal liner for extra thermal protection in a high heat and compression area of the coat. The thermal liner and moisture barrier component shall be completely detachable from the outer shell. The liner front sides shall be attached by thermoplastic zippers with attachment at the neck to the outer shell with hook and loop sewn in the center top edges. The design should provide continuous moisture/blood-borne protection at the front and neck, attachment areas and font sides.



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1.5.18 DRAG RESCUE DEVICE: Manufacturer shall supply each coat with a Kevlar Rescue Strap system designed to fit each individual chest size. Each strap is to be properly labeled with Danger Labels that include what chest size the Rescue Strap is designed to fit along with instructions for care installation/removal of the Rescue Strap. Rescue Strap shall be designed in a fashion that it functionally provides a dynamic, articulated action and eliminates excess strapping material from hanging down the back when installed between the garment's liner and outer shell.

The device shall be constructed using two components: a one and a half inch (1.5") Kevlar webbing grab handle; and a free floating loop of Kevlar rope to go around each of the wearer's arm/shoulder. The Kevlar webbing grab handle shall be sized with the center of the loop positioned at the rear of the upper torso and through the grab handle. The grab loop shall extend upward and pass through a reinforced slot in the coat outer shell just below the center rear of the collar seam where it will exit the outer shell with a silver retro-reflective patch attached to the loop handle. The protruding grab loop shall then fold back down over the top of the tunnel and bestowed by Velcro with the pile sewn for the width of the tunnel and the hook sewn on the grab loop. There shall then be an outer shell flap of three inches (3") Red Ventilated reflective trim, set horizontal across flap with four (4) rows lockstitch.

- 1.5.19 STORM SHIELD/CLOSURE SYSTEM: A storm shield constructed in the Chicago Closure style shall be used. Shall consist of Gore TR7100 PTFE moisture barrier between two (2) layers of self-fabric with an additional thermal layer of Arafil inserted. This will incorporate a double thickness of self-fabric, five inches (5") wide. This shall be mounted on the exterior of the garment on the LEFT side and secured in position with two inches (2") hook and loop Velcro fastener. Closure shall be provided by four (4) hook (stormflap or left side with opening to be facing downward) and four (4) D-Rings (right side) which shall be completely covered by the storm flap. The storm flap shall be attached to the coat with stitching on the left side as worn, with Velcro closure on the right side as worn. Three (3) additional snaps shall be added between the hook and D-Rings for closure reinforcement.
- **1.5.20 POCKETS:** One radio pocket shall be provided, 6.5" high x 3.5" wide x 2" deep. Will consist of outer shell material, polycotton fully lined all three (3) sides inside pocket. Pocket closure shall be secured with Velcro and shall have an antenna notch on both sides with a three inch by three inch (3" x 3") mesh opening. Placement shall be at a one o'clock (01:00) angle, just above chest trim.

There shall be two (2) additional pockets on the front of the coat, one on each side of the closure system at the waist. They shall be KEVLAR® twill fully lined all four sides with BLACK PCA four inches (4") up all four (4) sides on outsides of pockets. They are of bellows style, eight inches high by eight inches wide by two inches deep (8"H x 8"W x 2"D). Closure secured by three (3) pieces of Velcro on flap and one on the pocket. Pockets shall be hanging on coats that are thirty-two (32") or shorter.

All pockets shall have Brass drainage grommets provided in pocket bottom.

1.5.21 **REFLECTIVE TRIM:** The reflective trim shall consist of three inches (3") Ventilated ScotchliteTM Triple Trim lime/yellow, consisting of one three inches (3") band around each sleeve two inches (2") above the cuff; and one three inches (3") horizontal strip across the front upper torso and an additional strip full circumference on the front and back of the coat, above the hem. An additional, a three inches (3") strip shall extend vertically from the hem trim to the bottom of the yoke in back. All reflective trim shall be sewn with four rows lockstitch 301, minimum six stitches per inch for most secure trim attachment.



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- **1.5.22 AMERICAN FLAG:** Two inches by three inches (2" x 3") American Flag Emblem of Nomex thread shall be placed on the right sleeve, with stars on upper right corner.
- **1.5.23 MICROPHONE TAB:** There shall be three (3) microphone tabs consisting of triple layer self-fabric: one inch by three inches (1"x 3"). One (1) located on the stormflap two inches (2") below the top, one (1) left, and one (1) right front chest. The placement of the left and right sides shall be just below the collar and next to the stormflap as to not interface with the Self Contained Breathing Apparatus straps.
- **1.5.24 FLASHLIGHT STRAP:** One strap consisting of self-fabric, two inches by twelve inches (2" x 12"), attached by X-stitch and two (2) bar tacks, approximately one and a half inches (1.5") below microphone tab.
- **1.5.25 GLOVE HOLDER:** One strap consisting of self-fabric, two inches by twelve inches (2" x 12"), with Velcro to secure ends. To close with bottom end on top, in a circle when closed. Placed vertically, right of stormflap, secured by X-stitch in center.
- **1.5.26 SNAP HOLDER:** One 2-layer self-fabric flashlight snap holder with two bartacks on right front coat, just above hem trim between pocket and stomflap.
- **1.5.27 REMOVABLE ACCOUNTABILITY PANEL:** shall be of five inches by eighteen inches (5" x 18") patch, consist of two (2) layer self-fabrics; secured with hook and loop, sewn to the top of the patch and the underside of outer layer of the trim and reinforced by two (2) snaps. Lettering shall be of three inches (3") sewn on Lime/Yellow 3MTMScotchliteTM Letters (6-12 characters). Longer names can be of two inches (2") letters.

Lettering shall be FF NAME: 1st initial and last name.

1.6 PANT CONSTRUCTION REQUIREMENTS:

The turnouts shall be constructed of the above stated materials in a multi-layer configuration for the turnout coat and turnout pant. It is the desire of the City of Glendale, Arizona, Fire Department that the pant be manufactured by the same provider as the coat, to insure consistency, and to avoid liability and interface problems. Manufacturer warranty terms and duration shall be the same for turnout pant as it is stated for turnout coat. All warranty work shall be provided on a no charge basis.

- 1.6.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.6.2 PATTERNING AND DESIGN:** The pant shall be multi patterned design to allow for the best optimum balance of comfort, mobility, and protection. Garments shall feature a more tailored fit with contoured legs and knees for better mobility and a radial inseam to reduce tension and add comfort. A radial banded insert runs continuously from the top of knee on one leg, through the crotch area to the top of the opposite knee, reduces tension and adds comfort. Bib style or high back waist or enhanced waist pant are not acceptable.

Legs of the pant shall be boot cut and able to easily slide over the tops of a 14" various brands of structural firefighting turnout boots without hanging up when doffing or causing the boot top to crush in appearance when stowed. Cuff of the pant and lower leg area should not be so tight as to creep up the boot and not fall back to the normal "natural" position when crawling or squatting.

1.6.3 MOISTURE BARRIER/THERMAL LINER CONSTRUCTION: Design shall be constructed of Semper DriTM (3.0 oz./sq. yd. Teflon® treated Chambray (NOMEX® spun) face cloth quilted to two (2) layers of NOMEX®/Kevlar® spunlace (Total weight +/- 6.0-6.8 oz./sq. yd.)), to deter the wicking of moisture up the thermal liner leg of the bottom nine inches



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of each thermal leg. The waist of the moisture barrier/thermal liner shall be secured to the waist of the outer shell such that when donning the pant a leg may not be accidentally caught between the outer shell and its inner linings along the waist and between the legs of the pant. The moisture barrier/thermal liner shall finish no more than 3" from the cuffs. For added thermal protection in the knee, an additional layer of uninterrupted 1/8" thick, fire resistant closed-cell foam shall be positioned between the moisture barrier and thermal liner.

- **1.6.4 MOISTURE BARRIER/THERMAL LINER ATTACHMENT:** The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by using snaps and hook and loop. Eight (8) evenly spaced snaps shall secure the liner to the integral waistband; two snaps shall be set in leather leg tabs at each leg end and hook and loop on each side of fly facing.
- 1.6.5 **INSPECTION PORT:** An inspection port shall be provided at the upper hem of the pant liners secured together with Velcro material, to allow the entire interior to be turned completely inside out for a detailed inspection of the moisture barrier/ thermal liner assembly to be inspected in the field for wear and burn spots without unstitching garment. The port should be a ten inches (10") wide to allow for hydrostatic testing. The Liner Inspection System shall be completely hidden when the liner is properly installed into the outer shell.
- **1.6.6 SIZING:** Pants are to be available on a custom order size basis in one (1) inch waist increments and inseam lengths, including but not limited to, waist measurement and inseam length.
 - Garments ordered for women members shall be cut on women's patterns, not on modified men's patterns.
- 1.6.7 KNEE PADDING/THERMAL LAYERING: The manufacturer will provide an additional knee pad with enhanced thermal layering to protect the firefighter from objects while crawling and to provide enhanced TPP, in the knee area. Shall consist of a flexible design and patterning. These pads shall be a minimum of three (3) layers of Lite-N-Dri® foam padding and are attached to the outer shell of the pant. The Heat Transfer Index rating shall be a minimum of 25 seconds for the knee when measured at 8 psi (pounds per square inch). The knee pad shall be made Contoured black Super Fabric knees. The liner shall be internally reinforced at the knee with a separate piece of breathable high temperature, fiber based thermal liner material.
- **1.6.8 FLY CONSTRUCTION:** The outer shell fly shall have an overlapping fly front and be locked stitched to the left side of the front opening and be in proportion to waist size and crotch rise in both length and width. Closure shall be of a thermoplastic zipper inside with 1.5" hook and loop, 3/4" hook underneath with double row stitching. The flap shall not be less than 2.5" wide at the waistband. The bottom of the fly shall be reinforced with a forty-two (42) stitch bar tack. Additionally, one snap shall be positioned at the inside top of the fly. The storm fly shall be of self-fabric, lined with a four inches (4") strip of CROSSTECH® (Type 2C) moisture barrier material.
- **1.6.9 BOOT CUT:** The back portion of the cuff will gradually curve upward from each side seam to a maximum of 2" at the center back of the pant leg to prevent wear on the back of the cuff.
- **1.6.10 REFLECTIVE TRIM:** The reflective trim shall consist of three inches (3") Ventilated ScotchliteTM Triple Trim lime/yellow, consisting of one strip full circumference around the bottom of the cuff 2"/3" from the bottom cuff. **All reflective trim shall be sewn with four rows lockstitch 301, minimum six stitches/per inch for most secure trim attachment.**



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- 1.6.11 SUSPENDERS: EZH-Back Quick Adjust Non-Stretch suspenders with two inches (2") metal loops shall be included with pant. Color shall be black in a horizontal back strap ("H" cross) design, have four (4) points of attachment, using self-fabric, and leather-reinforced suspender tabs with snaps to secure to pant. The shoulder straps shall be of two inches (2") wide elastic webbing, encapsulated with a long sheath of padding constructed of fire-retardant closed-cell foam laminated to Nomex pajama check substrate with and have a one inch (1") wide lime/yellow Scotchlite strip located the entire length facing outward with two 8" front pull straps for easy adjustment of proper fit. Size shall be determined at time of order and increased or reduced in length accordingly.
- **1.6.12 BELT AND HARNESS:** Two inches (2") wide KEVLAR® belt with two inches (2") self-locking thermoplastic buckle with quick release mechanism. Shall attach to the pant shell by three (3) belt loops, four inches (4") wide by three and a half inches (3.5") high, 2-layers self-fabric, double stitched and bar tacked all four corners. The waist of the pant shall be reinforced on the inside with a layer of self-fabric, not less than one and a half (1.5") in width.
- **1.6.13 POCKETS:** Pants shall be provided with two bellows cargo pockets, fully lined on the outside with BLACK PCA, five inches (5") up. Pockets shall be lined with KEVLAR® on all four (4) sides. Closure shall consist of hook and loop material, with full one and a half inches (1.5") Velcro hook across the entire length of the top outside edge of the pocket three vertical stripes on pocket flap of one and a half inches (1.5") Velcro pile Brass drainage grommets shall be provided in pocket bottom.

Left thigh pocket shall consist of an internal pocket system for tools. Two (2) layers to create six (6) compartments. The materials shall be of self-fabric lined with KEVLAR® on the inside. Dimensions are ten inches wide by nine inches high and two inches expansion (10"wide, and 9"high and a 2").

Right thigh pocket shall consist of split bellow pocket, an internal pocket divide in half vertically with Kevlar twill attached with three (3) snaps to allow for full or half pocket use. Dimensions are nine inches wide, eight inches high and two inches expansion (9"wide, and 8"high and a 2"expansion).

1.6.14 TAKE UP STRAPS: Two (2)fully adjustable take up straps on each side, one inch by ten inches (1" x 10") in length and shall be provided quickly adjust of the waistband to properly allow a snug fit. These straps shall be constructed of two (2) layers of self-fabric and shall have a spring loaded postman's slide fastening device to insure a non-slip fit and bar tacked to shell, pull forward. Plastic fasteners are not acceptable. Leather take up straps are not acceptable.

1.7 STRUCTURAL FIREFIGHTING GLOVES-CONSTRUCTION REQUIREMENTS:

This specification details minimum requirements for materials, design and construction features to be incorporated in structural firefighting gloves. Hereafter referred to as, glove. Each manufacturer must carefully read these specifications and respond to any and all requests for compliance. **Failure to do so may be the cause for rejection of the bid.**

The glove shall be a gunn cut pattern with wing thumb and wrap around index finger. Lining is completely sewn 8 oz S.E.F. Modacrylic, laminated to Gore RT7100 Glove Barrier Fabric. Seams shall be sealed with a DuPont® silicone sealant. The one-piece lining is permanently sewn to the glove shell in the area of the fingertips and wrist as to eliminate the opportunity for lining pullouts. The glove body shall extend 2" above the wrist crease and shall have a shirred elastic snuggler at the wrist.



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- 1.7.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.7.2 OUTERSHELL:** Shall be constructed of heavy weight, fire retardant, heat resistant, 3.50 to 4.0 oz., grain elk hide on the glove back. Shelby abrasion resistant, multidirectional fiber structure, brushed pigskin on the palm.
- **1.7.3 THERMAL LINER:** Shall be of 8 oz. S.E.F. Modacrylic fleece laminated to Gove RT7100 glove barrier fabric.
- **1.7.4 PROTECTIVE BARRIER:** Shall be of Gore (PTFE) RT7100 glove barrier fabric and shall be combined (laminated) to the thermal liner. The breathable barrier/thermal liner system shall be individually graded and sized proportionally to human hand sizes.
- **1.7.5 WRIST PULL:** Shall be 3" x 3 ½" round leather pull, sewn to glove body.
- **1.7.6 HANGER LOOP:** Shall be ¹/₄" fire retardant, heat resistant split cowhide.
- **1.7.7 THREAD:** Shall be sewn with high burst strength Kevlar 30/5 lock stitch, 8-10 stitches per inch.
- **1.7.8 SIZING:** Sizing shall be available in XXS, XS, S, M, L, XL, J

1.8 STRUCTURAL FIREFIGHTING HOODS – CONSTRUCTION REQUIREMENTS:

This specification details minimum requirements for materials, design and construction features to be incorporated in structural firefighting hoods. Hereafter referred to as, hood. Each manufacturer must carefully read these specifications and respond to any and all requests for compliance.

Failure to do so may be the cause for rejection of the bid.

- 1.8.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.8.2 MATERIAL SPECIFICATIONS:** The overall construction of the hood shall be manufactured with Ultra C6 fabric of 65% Oxidized Polyacrylonitrile (OPF) and 35% artificial tri-blend of 1 x 1 Rib Knit. The material weight shall be 6.5 oz / yd² (+1 / -.5)
- **1.8.3 FABRIC PERFORMANCE VALUES:** The Hood fabric shall be self-extinguishing, inherently flame resistant, odor neutralizing, anti-static, with low heat conductivity. Fabric shall maintain performance values after laundering and finished to minimize shrinkage. Rib Knit shall allow for stretch and shape retention.
- 1.8.4 THERMAL PROTECTIVE PERFORMANCE: 2 ply, as received; 2 ply, after 5 washes
- 1.8.5 OVERALL LENGTH: 23 Inches
- **1.8.6 FACE OPENING:** Full Face Opening Circular Measurement 120 mm 145 mm; Sewn with ½" elastic. Elastic is encapsulated in material and cover stitched elastic face opening stretches to accommodate a circumference of at least 31" (800 mm) for ease of donning, snug fit, and proper seal with SCBA
- **1.8.7 BINDING:** Binding of same fabric material to enhance design with a finished look.
- **1.8.8 SEAMS:** Thread used shall be 100% Nomex; Head design with traditional center head seam.

1.9 STRUCTURAL FIREFIGHTING BOOTS – CONSTRUCTION REQUIREMENTS:

The City's Fire Department has undergone a field wear test to identify and select multiple brands of firefighter boots to best accommodate Glendale Firefighters. As our department has grown, we now have firefighters that do not all fit into one specified manufacturer. The approval of multiple vendors for boots will allow us to accommodate the best fit and size boot, limiting fatigue and other health related problems for the individual feet variance of Glendale firefighters.

GLENDALE

SOLICITATION NUMBER: IFB 16-31 FIREFIGHTER TURNOUT GEAR

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Specifications for the three (3) manufacturers have been tested and approved;

- Honeywell Pro Warrington 5007
- Globe ShadowTM
- Black Diamond X2
- 1.9.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
- **1.9.2 ADDITIONAL CERTIFICATION:** In addition to the NFPA 1971 Standard, must also meet the Class 75 impact resistance/compression resistance requirements of ASTM F2413-05.
- **1.9.3 SIZING:** Boot fit shall be true to size, not requiring up sizing due to inserts. If up sizing is required due to incorrect last modeling or addition of required inserts, there shall be no up charge. See each Manufacture/Model for size specifications.

1.9.4 BOOT SPECIFICATIONS #1: MFG/MODEL: HONEYWELL BT5007:

- Texon Board Shinguard
- Bootie Package with full-height Crosstech® Moisture Barrier and a 7.5oz Kevlar® Thermal Barrier
- Breathable AdvancedTM Ripstop Fabric
- Supportive Goodyear Welt Construction
- PowerToeTM Protection
- Broad Oblique Steel Toe
- Reflective Welt
- Heavy-duty Round Handle Strap
- Reinforced Side and Back Stays
- APT Barcode
- Premium Quality Military AB Leather
- Heel Grip Wall
- Visible PowerHeelTM
- Removable Molded Insert
- Corrosion resistant Triple-rung Shank
- Puncture-resistant Stainless Steel Bottom Plate
- Vibram® Lug Broad-base Sole
- **1.9.4.1 SIZING:** Boot shall comply with 1.9.3. Boot fit shall be true to size, not requiring up sizing due to inserts. If up sizing is required due to incorrect last modeling or addition of required inserts, there shall be no up charge for 4E widths. Additional width of 5E shall be available as a special order boot with no longer than a six week date of delivery.

Full and half sizes in the following sizes and widths are to be available.

| C widths | 6-12, 13, 14 |
|-----------|--------------|
| D widths | 4-13, 14, 15 |
| E widths | 4-13, 14, 15 |
| 3E widths | 4-13, 14, 15 |
| 4E widths | 6-16 |
| 5E widths | 6-16 |

1.9.5 BOOT SPECIFICATIONS #2, MFG/MODEL: GLOBE SHADOWTM

• Flame-Resistant, Water-Resistant Heavy Duty Leather



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- CROSSTECH Footwear Fabric
- Kevlar Blend Protective Shield
- Pull Straps
- 3D Molded and padded Shin Guard
- Heelport Internal Fit System
- Composite Heel Counter
- Composite Safety Toe Cap
- Vibram Toe Bumper
- 3D Molded Removable Footbeds
- 3D Composite Lasting Board
- Composite Shank
- Composite Puncture Protection
- Vibram Contoured Cup Outsole
- Athletic Footwear Construction
- Slip-Resistant Tread

1.9.5.1 SIZING: Boot shall comply with 1.9.3. Shall be available in:

- Men's: 5-16 (full and half sizes) and 17-18 (full sizes only) in Narrow, Medium, Wide, and X-wide widths. Wide calf model available in all sizes.
- Women's: 5-12 (full and half sizes) in Narrow, Medium, Wide, and X-Wide widths. Wide calf model available in all sizes

1.9.6 BOOT SPECIFICATIONS #3: MFG/MODEL: BLACK DIAMOND X2

- Boot Height: 14 inches
- Leather Upper: Fire-Tuff flame retardant waterproof heavy weight
- Fusion Upper: Fusion fabric Nomex/Kevlar and Teflon F.P.P.E.
- Strobel Lining Construction: NO liner pull-out
- Lining: Crosstech membrane with Omaha lining
- Kevlar Lining for cut protection
- Tibia Protector: form-fitting shin-guard for maximum protection
- Calf-fit system: extended calf width, maximum flexibility
- Footbed: Ortholite 3-density, multi-fit, removable footbed with TPU heel cradle for comfort, anti-oder, anti-fungal breathable and shock absorption. 3 high density, multi-fit, removable footbed inserts that allow the boot to be fitted from medium, wide and extra wide feet.
- Outsole: Proprietary Rubber comfort cup sole with comfort flex, high abrasion and traction performance. Built-in heel boot jack for easy-off.
- Steel Toe: Oblique, comfort wide toe
- Toe Cap and Heel Protection: molded rubber toe cap and heel for high abrasion and ankle support guard protection
- Protective Plate: Lenzi Puncture Protection
- Steel Shank: Double ridged steel
- Pull-on System: Integrated & reinforced pull-on system. (sewn on leather or fabric tabs or extensions are not approved)
- 3-Point Heel Lock System
- 3M Scotchlite: flame resistant and reflective for added visibility



- **1.9.6.1 SIZING:** Boot shall comply with 1.9.3. Multi width boot that can accommodate medium, wide and extra-wide. The sizing should be available in 5 15 full sizes and half sizes 8.5 11.5
- **1.10** <u>CITROSQUEEZE®</u> Personal Protective Equipment and Turnout Gear Cleaner. Able to remove hydrocarbons and soils from fire and chemical spills.
 - 1.10.1 COMPLIANCE OF STANDARDS AND REGULATIONS Refer to Section 1.2
 - 1.10.2 CERTIFICATIONS AND ADDITIONAL MANUFACTURER REQUIREMENTS Refer to Section 1.2.2
 - **1.10.3 NEW PRODUCT AVAILABILITY** Refer to Section 1.2.5
 - **1.10.4 DISCONTINUATION OF CONTRACTED ITEM** Refer to Section 1.2.6
 - **1.10.5 LIABILITY CONSIDERATIONS** Refer to Section 1.2.7
 - **1.10.6 DELIVERY** *Refer to Section 1.2.9*
 - **1.10.7 LABELING:** Shall be permanently attached to each container, certifying the product meets or exceeds the requirements of the latest NFPA standards. Label shall be durable and include:
 - **1.10.8 COMPONENTS:** Shall be Biodegradable and environmentally safe
 - **1.10.9 QUANTITY:** Shall be available in five (5) gallon containers



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If NOT Compliant, please be specific about what area is not in compliance and thoroughly explain the differences in a separate letter/memo as to why you chose to take an exception. A written explanation must be submitted referencing the specific paragraph number and adequately defining the exception submitted. Any pictures/digitals photos would also be preferred to show any of the exceptions.

COMPLIANCE CHECK SHEET

| | | Check Response |
|--------|---|-----------------------|
| 1.2 | COMPLIANCE OF STANDARDS & REGULATIONS | |
| 1.2.1 | NFPA CERTIFICATION/TRAINING | Yes 🗌 No 🗌 |
| 1.2.2 | CERTIFICATIONS/ADDITIONAL MANUFACTURER REQUIREMENTS | Yes 🗌 No 🗌 |
| 1.2.3 | SAMPLES | Yes 🗌 No 🗌 |
| 1.2.4 | RESEARCH & DEVELOPMENT | Yes 🗌 No 🗌 |
| 1.2.5 | NEW PRODUCT AVAILABILITY | Yes 🗌 No 🗌 |
| 1.2.6 | DISCONTINUATION OF CONTRACTED ITEM | Yes 🗌 No 🗌 |
| 1.2.7 | LIABILITY CONSIDERATIONS | Yes 🗌 No 🔲 |
| 1.2.8 | WARRANTY | Yes 🗌 No 🗌 |
| 1.2.9 | DELIVERY | Yes 🗌 No 🗌 |
| 1.2.10 | USER INFORMATION GUIDE | Yes 🗌 No 🗌 |
| 1.2.11 | CLEANING INSTRUCTIONS | Yes 🗌 No 🗌 |
| 1.2.12 | TRACEABILITY | Yes 🗌 No 🗌 |
| 1.2.13 | LABELING | Yes 🗌 No 🗌 |
| 1.2.14 | QUALITY | Yes 🗌 No 🗌 |
| 1.2.15 | WORKMANSHIP | Yes 🗌 No 🗌 |
| 1.2.16 | REPAIR & REPLACEMENT PARTS | Yes 🗌 No 🗌 |
| 1.2.17 | BIDDER'S COMPLIANCE WITH HEALTH, ENVIRONMENTAL & SAFETY | Yes 🗌 No 🗌 |
| 1.3 | STRUCTURAL FIREFIGHTING HELMET -CONSTRUCTION REQUI | REMENTS |
| 1.3.2 | OUTERSHELL | Yes 🗌 No 🗌 |
| 1.3.3 | SUSPENSION SYSTEM | Yes 🗌 No 🗌 |
| 1.3.4 | BRIM EDGE TRIM | Yes 🗌 No 🗌 |
| 1.3.5 | HELMET HARDWARE AND THREAD REQUIREMENTS | Yes 🗌 No 🗌 |
| 1.3.6 | HELMET HANGER LOOP AND BRACKET | Yes 🗌 No 🔲 |
| 1.3.7 | FACE SHIELD MOUNTING BRACKETS | Yes 🗌 No 🗌 |
| 1.3.8 | INTERNAL PROTECTION SYSTEM | Yes 🗌 No 🗌 |
| 1.3.9 | SUSPENSION HEADBAND AND RETENTIONS SYSTEMS | Yes 🗌 No 🗌 |
| 1.3.10 | EYE PROTECTION MOUNTING SYSTEM | Yes 🗌 No 🗌 |
| 1.3.11 | REFLECTIVE TRIM | Ves □ No □ |



| | <u>COMPLIANCE CHECK SHEET</u> | Check Response |
|--------|--|----------------|
| 1.3.12 | EAR COVERS/FLAPS | Yes 🗌 No 🗌 |
| 1.3.13 | WINTER LINER | Yes 🗌 No 🗌 |
| 1.3.14 | CHINSTRAP | Yes 🗌 No 🗌 |
| 1.3.15 | WARRANTY | Yes 🗌 No 🗌 |
| 1.4 | TURNOUT GARMENT/COAT & PANT - CONSTRUCTION F | REQUIREMENTS |
| 1.4.2 | ADDITIONAL LABELING | Yes 🗌 No 🗌 |
| 1.4.3 | THREAD | Yes 🗌 No 🗌 |
| 1.4.4 | STITCH METHODS | Yes 🗌 No 🗌 |
| 1.4.5 | MATERIALS FOR COAT & PANTS | Yes 🗌 No 🗌 |
| 1.4.6 | OUTER SHELL MATERIAL | Yes 🗌 No 🗌 |
| 1.4.7 | MOISTURE BARRIER MATERIAL | Yes 🗌 No 🗌 |
| 1.4.8 | BREATHABILITY REQUIREMENTS | Yes 🗌 No 🗌 |
| 1.4.9 | THERMAL LINER | Yes 🗌 No 🗌 |
| 1.4.10 | MOISTURE BARRIER/THERMAL LINER ATTACHMENT | Yes 🗌 No 🗌 |
| 1.4.11 | REINFORCEMENT MATERIALS | Yes 🗌 No 🗌 |
| | 1.4.11.1 CUFF REINFORCEMENT | Yes 🗌 No 🗌 |
| | 1.4.11.2 SEAM ABRAISION SHIELD | Yes 🗌 No 🗌 |
| | 1.4.11.3 POCKET REINFORCEMENT | Yes 🗌 No 🗌 |
| | 1.4.11.4 ELBOW REINFORCEMENT | Yes 🗌 No 🗌 |
| 1.4.12 | REFLECTIVE TRIM | Yes 🗌 No 🗌 |
| 1.5 | COAT - CONSTRUCTION REQUIREMENTS | |
| 1.5.2 | PATTERNING REQUIREMENTS COAT | Yes 🗌 No 🗌 |
| 1.5.3 | THERMAL REINFORCED YOKE | Yes 🗌 No 🗌 |
| 1.5.4 | SHELL YOKE REINFORCEMENT | Yes 🗌 No 🗌 |
| 1.5.5 | INSPECTION PORT | Yes 🗌 No 🗌 |
| 1.5.6 | COAT RISE | Yes 🗌 No 🗌 |
| 1.5.7 | HANG UP LOOP | Yes 🗌 No 🗌 |
| 1.5.8 | SIZING | Yes 🗌 No 🗌 |
| 1.5.9 | COAT LENGTH | Yes 🗌 No 🗌 |
| 1.5.10 | LABEL LINER POCKET | Yes 🗌 No 🗌 |
| 1.5.11 | SLEEVES | Yes 🗌 No 🗌 |
| 1.5.12 | BELLOWS UNDERARMS | Yes 🗌 No 🗌 |
| 1.5.13 | WRISTLET EXTERNAL | Yes 🗌 No 🗌 |
| 1.5.14 | WATERWELL & INTERNAL WRISTLET | Yes 🗌 No 🗌 |



| | COMPLIANCE INFORMATION | Check Response |
|--------|--|-----------------------|
| 1.5.15 | COLLAR | Yes 🗌 No 🗌 |
| 1.5.16 | SHOULDER CAPS | Yes 🗌 No 🗌 |
| 1.5.17 | LINER & DESIGN ATTACHMENT | Yes 🗌 No 🗌 |
| 1.5.18 | DRAG RESCUE DEVICE | Yes 🗌 No 🗌 |
| 1.5.19 | STORM SHIELD/CLOSURE SYSTEM | Yes 🗌 No 🗌 |
| 1.5.20 | POCKETS | Yes 🗌 No 🗌 |
| 1.5.21 | REFLECTIVE TRIM | Yes 🗌 No 🗌 |
| 1.5.22 | AMERICAN FLAG | Yes 🗌 No 🗌 |
| 1.5.23 | MICROPHONE TAB | Yes 🗌 No 🗌 |
| 1.5.24 | FLASHLIGHT STRAP | Yes 🗌 No 🗌 |
| 1.5.25 | GLOVE HOLDER | Yes 🗌 No 🗌 |
| 1.5.26 | SNAP HOLDER | Yes 🗌 No 🗌 |
| 1.5.27 | REMOVABLE ACCOUNTABILITY PANEL | Yes 🗌 No 🗌 |
| 1.6 | PANT - CONSTRUCTION REQUIREMENTS | |
| 1.6.2 | PATTERNING & DESIGN | Yes 🗌 No 🗌 |
| 1.6.3 | MOISTURE BARRIER/THERMAL LINER CONSTRUCTION | Yes 🗌 No 🗌 |
| 1.6.4 | MOISTURE BARRIER/THERMAL LINER ATTACHMENT | Yes 🗌 No 🗌 |
| 1.6.5 | INSPECTION PORT | Yes 🗌 No 🗌 |
| 1.6.6 | SIZING | Yes 🗌 No 🗌 |
| 1.6.7 | KNEE PADDING/THERMAL LAYERING | Yes 🗌 No 🗌 |
| 1.6.8 | FLY CONSTRUCTION | Yes 🗌 No 🗌 |
| 1.6.9 | BOOT CUT | Yes 🗌 No 🗌 |
| 1.6.10 | REFLECTIVE TRIM | Yes 🗌 No 🗌 |
| 1.6.11 | SUSPENDERS | Yes 🗌 No 🗌 |
| 1.6.12 | BELT AND HARNESS | Yes 🗌 No 🗌 |
| 1.6.13 | POCKETS | Yes 🗌 No 🗌 |
| 1.6.14 | TAKE UP STRAPS | Yes 🗌 No 🗌 |
| 1.7 | STRUCTURAL FIREFIGHTING GLOVES - CONSTRUCTION RE | QUIREMENTS |
| 1.7.2 | OUTERSHELL | Yes 🗌 No 🗌 |
| 1.7.3 | THERMAL LINER | Yes 🗌 No 🗌 |
| 1.7.4 | PROTECTIVE BARRIER | Yes 🗌 No 🗌 |
| 1.7.5 | WRIST PULL | Yes 🗌 No 🗌 |
| 1.7.6 | HANGER LOOP | Yes 🗌 No 🗌 |
| 1.7.7 | THREAD | Yes 🗌 No 🗌 |
| 1.7.8 | SIZING | Yes 🗌 No 🗌 |



| | COMPLIANCE INFORMATION | Check Response |
|--------|--|-----------------------|
| 1.8 | STRUCTURAL FIREFIGHTING HOODS – CONSTRUCTION RE | QUIREMENTS |
| 1.8.2 | MATERIAL SPECIFICATIONS | Yes 🗌 No 🗌 |
| 1.8.3 | FABRIC PERFORMANCE VALUES | Yes 🗌 No 🗌 |
| 1.8.4 | THERMAL PROTECTIVE PERFORMANCE | Yes 🗌 No 🗌 |
| 1.8.5 | OVERALL LENGTH | Yes 🗌 No 🗌 |
| 1.8.6 | FACE OPENING | Yes 🗌 No 🗌 |
| 1.8.7 | BINDING | Yes 🗌 No 🗌 |
| 1.8.8 | SEAMS | Yes 🗌 No 🗌 |
| 1.9 | STRUCTURAL FIREFIGHTING BOOTS - CONSTRUCTION REG | QUIREMENTS |
| 1.9.2 | ADDITIONAL CERTIFICATION | Yes 🗌 No 🗌 |
| 1.9.3 | SIZING | Yes 🗌 No 🗌 |
| 1.9.4 | BOOT SPEC #1 MFG/MODEL: HONEYWELL BT5007 | Yes 🗌 No 🗌 |
| | 1.9.4.1 SIZING | Yes 🗌 No 🗌 |
| 1.9.5 | BOOT SPEC #2 MFG/MODEL: GLOBE SHADOW TM | Yes 🗌 No 🗌 |
| | 1.9.5.1 SIZING | Yes 🗌 No 🗌 |
| 1.9.6 | BOOT SPEC #3 MFG/MODEL: BLACK DIAMOND X2 | Yes 🗌 No 🗌 |
| | 1.9.6.1 SIZING | Yes 🗌 No 🗌 |
| 1.10 | <u>CITROSQUEEZE®</u> | |
| 1.10.7 | LABELING | Yes 🗌 No 🗌 |
| 1.10.8 | COMPONENTS | Yes 🗌 No 🗌 |
| 1.10.9 | QUANTITY | Yes 🗌 No 🗌 |



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2.0 SPECIAL INSTRUCTIONS

- **RETURN OF BID One (1) original hard copy.** The original bid shall be one-sided. The sections of the submittal should be clearly identifiable and should follow the instructions noted in the PREPARATION OF BID PACKAGE section of this Invitation for Bid (IFB). Failure to include the requested information may have a negative impact on the evaluation of the bidder's offer.
- **PREPARATION OF BID PACKAGE** The following items shall be completed and returned. Failure to include all the items may result in a bid being rejected. Bid packages shall be submitted in the following order:
 - 2.2.1 **BIDDER SHEET**, Section 4.0
 - 2.2.2 **PRICE SHEET**, Section 5.0
 - 2.2.3 **COMPLIANCE CHECK SHEET**, pgs. 22-25
 - 2.2.4 **ADDENDUM**, Return all addenda (if applicable).
 - 2.2.5 **CATALOG OR PRICE LIST** (if available)
- **2.3 EVALUATION CRITERIA** Invitation for Bids (IFB) are awarded to the lowest, responsible and responsive bidder whose bid conforms in all material respect to the requirements and criteria set forth in the Invitation for Bids.
- **TYPE OF AWARD** The City reserves the right to make multiple awards or to award by group of line items, or to make an aggregate award, whichever is deemed most advantageous to the City. If the City determines that an aggregate award to one bidder is not in the City's best interest, "all or none" Bids shall be rejected.
- **2.5 BRAND NAME OR EQUAL** Specification which uses a brand name, manufacturer's name or product number is used for the purpose of designating the standard of quality, performance, and characteristics needed to meet City requirements and is not intended to limit or restrict competition. Products substantially equivalent to those designated may be considered for award.
- 2.6 <u>ESTIMATED QUANTITIES</u> Quantities listed in this solicitation are the City's best estimate. The City may order some, all, more, or none of the individual quantities. The City's actual requirements during the period of this agreement shall be determined by the actual needs and availability of appropriated funds.

2.7 PROPRIETARY INFORMATION

Bidders shall clearly mark any proprietary information contained in its bid with the words "Proprietary Information." Bidder shall not mark any Solicitation Form as proprietary. Pricing data shall not be considered proprietary. Marking all, or nearly all, of a bid as proprietary may result in rejection of the bid.

Bidders acknowledge that the City is required by law to make certain records available for public inspection. In the event that the City receives a request for disclosure of Proprietary Information by any person, court, agency or administrative body, or otherwise has a reasonable belief that it is obligated to disclose the Proprietary Information to any such person or authority, the City will provide Bidder with prompt written notice so that Bidder may seek a protective order or other appropriate remedy. The Bidder, by submission of materials marked Proprietary Information, acknowledges and agrees that the City will have no obligation to advocate for non-disclosure in any forum or any liability to the Bidder in the event that the City must legally disclose the Proprietary Information.



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- **INQUIRIES** Any question related to this solicitation shall be directed to the Contract Analyst whose name appears above. Any Bidder shall not contact or ask questions of the department for whom the requirement is being procured. The Contract Analyst may require any and all questions be submitted in writing. Bidders are encouraged to submit written questions via electronic mail or facsimile, at least <u>five days</u> prior to the proposal due date. Any correspondence related to a solicitation should refer to the appropriate solicitation number, page and paragraph number. An envelope containing questions should be identified as such; otherwise it may not be opened until after the official Bid due date and time. Oral interpretations or clarifications will be without legal effect. Only questions answered by a formal written amendment to the solicitation will be binding.
- **2.10** ADDITIONAL INFORMATION The City reserves the right to secure additional information from any Bidder as it deems necessary to establish the competence and financial stability of any Bidder submitting a bid.
- **2.11 PRIOR EXPERIENCE** Experiences with the City and entities that evaluation committee members represent and that are not specifically mentioned in the solicitation response may be taken into consideration when evaluating Bids.
- **2.12 EVALUATION CRITERIA** Invitation for Bids are awarded to the lowest responsible and responsive bidder whose bid conforms in all material respect to the requirements and criteria set forth in the Invitation for Bids.
- **2.13 TYPE OF AWARD** The City reserves the right to make multiple awards or to award by group of line items, or to make an aggregate award, whichever is deemed most advantageous to the City. If the City determines that an aggregate award to one bidder is not in the City's best interest, "all or none" Bids shall be rejected.

2.14 EVALUATION LITERATURE

Bids submitted for products considered by the seller to be equal to or better than the brand names or manufacturer's catalog references specified herein, must be submitted with technical literature and/or detailed product brochures with written statements if the literature or brochure is not specific as to the specification for the City's use to evaluate the product(s) offered. Bids submitted without this product information may be considered as non-responsive and rejected.

- 2.15 <u>COMPLIANCE INFORMATION:</u> The compliance information requested in Section One, Specifications, is for evaluation of the materials or equipment to be supplied. Bidders must check the appropriate response. A "yes" reply shall indicate the item will be supplied as specified. A "no" reply shall indicate the item will not be supplied as specified. A written explanation must be submitted referencing the specific paragraph number and adequately defining the exception submitted. Product brochures and literature suitable for evaluation must also be submitted. Any pictures/digitals photos would also be preferred to show any of the exceptions. For evaluation, the City will assume that any line left blank and not completed will not be furnished as specified.
- **2.16** WITHDRAWAL OF BID At any time prior to the specified solicitation due date and time, a Bidder may formally withdraw the bid by a written letter, facsimile or electronic mail from the Bidder or a designated representative. Telephonic or oral withdrawals shall not be considered.
- 2.17 NO CONTACT, NO INFLUENCE DURING THE IFB PROCESS The City is conducting a competitive IFB process for the contract, free from improper influence or lobbying. There shall be no contact concerning this IFB from Bidders submitting a bid with any member of the City Council, Evaluation Committee Members, or anyone connected with the process for or on



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behalf of the City. Contact includes direct or indirect contact by the Bidder, its employees, attorneys, lobbyists, surrogates, etc. in an attempt to influence the IFB process.

From the time the IFB is issued until the expiration of the protest period or the resolution of any protest, whichever is later (the "Black-Out Period"), Bidders, directly or indirectly through others, are restricted from attempting to influence in any manner the decision making process through, including but not limited to, the use of paid media; contacting or lobbying the City Council or City Manager or any other City employee (other than Material Management employees); the use of any media for the purpose of influencing the outcome; or in any other way that could be construed to influence any part of the decision-making process about this IFB. This provision shall not prohibit a Bidder from petitioning an elected official or engaging in any other protected first amendment activity after the protest period has run or any protest has been resolved, whichever is later.

Violation of this provision will cause the bid of the Bidder to be found in violation and to be rejected.

2.18 NOTICE OF INTENT TO AWARD AND PROTEST PERIOD Information about the recommended award for this solicitation will be posted on the Internet. The information will be available for review on the City's Materials Management Internet home page www.glendaleaz.com/purchasing immediately after the City has completed its evaluation process of the Bids received. If you have any questions, or would like further information about an intended award, contact the contract analyst immediately. Any protest must be submitted to the Materials Manager no later than seven (7) calendar days from the date of posting on the Internet.

Please go to: http://www.glendaleaz.com/Purchasing/doingbusinesswithglendale.cfm for information and instructions on how to file a protest with the City of Glendale.

2.19 CONFLICT OF INTEREST The Bidder shall disclose any and all possible conflicts of interest if any senior or managing personnel of the Contractor have a potentially conflicting business or personal relationship with any City employees that have or may have a role in the selection or management of the services or goods being solicited. Providing such disclosure will not necessarily disqualify a Contractor from providing a proposal or bid. Failure to disclose a potential conflict of interest may result in rejection of the proposal or bid or termination of a resultant contract.



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3.0 SPECIAL TERMS AND CONDITIONS

- 3.1 <u>INCORPORATION BY REFERENCE</u> All responses shall incorporate by reference the Scope/Specifications, terms and conditions, general instructions and conditions and any attachments. The Standard Terms and Conditions applicable to this solicitation are posted on the Internet. They are available for review and download at the City's Materials Management Internet home page, www.glendaleaz.com/purchasing. Bidders are advised to review all provisions of the General Instructions and Conditions for this solicitation.
- with all Public Records laws. All Bids submitted in response to the Solicitation shall become the property of the City and, subsequent to award recommendation, become a matter of public record available for review pursuant to Arizona Public Records Law. If a Contractor believes that a specific section of its response is confidential, that should be withheld from the public record, Contractor shall isolate the pages and mark each page confidential in a specific and clearly labeled section of its Proposal response. The Contractor shall include a written statement as to the basis for considering the marked pages confidential including the specific harm or prejudice if disclosed. The City Materials Management Division will review the material and make a determination as to the confidentiality of any of the information and/or material contained within the Submittal. In the event of a public records request for documents Contractor deems confidential, the City will notify Contractor of the request and if Contractor claims such documents are confidential, it shall be the Contractor's sole responsibility, including sole cost, to take appropriate action, including legal action, to protect such documents.
- 3.3 <u>COOPERATIVE USE OF CONTRACT</u> This agreement may be extended for use by other governmental agencies and political subdivisions of the State including all members of SAVE (Strategic Alliance for Volume Expenditures). Any such usage by other entities must be in accord with the ordinances, charter, rules and regulations of the respective entity and the approval of the Contractor and City. For a list of SAVE members click on the following link: http://www.maricopa.gov/materials/SAVE/SAVE-members.PDF
- **3.4 NON-EXCLUSIVE CONTRACT:** The resultant contract is non-exclusive and is for the sole convenience of the City. The City reserves the right to obtain similar goods and services from alternative sources if needed.
- **3.5 AWARD BY LINE ITEM/GROUP:** The award will be made by line item with the exception of lines 5.1.2 and 5.1.3 Turnout Coats and Pants must be bid together and they will be awarded as one group otherwise an offeror does not have to bid on all of the line items to submit a bid.
- 3.6 PRICE & PRICE ADJUSTMENTS All prices quoted shall be firm and fixed for the initial contract period. Price adjustments shall be addressed a minimum of sixty (60) days prior to the contract renewal date, shall be in writing and include supportive justification for the proposed increase. The rate increase shall only be considered at time of contract extension. The City will review the request and shall determine if the increase shall be granted or if an alternate option is in the best interest of the City. The price increase adjustment, if approved, will be effective and executed via a contract amendment.
- **3.7 DELIVERY** All deliveries shall be FOB Destination to the City of Glendale warehouse located at 6210 West Myrtle Avenue, Building N, Suite 181, Glendale, AZ 85301.
- 3.8 <u>DELIVERY TIME</u> All deliveries shall be made within City of Glendale warehouse hours, 6:30 am 2:30 pm, Monday through Friday, excluding City holidays. All deliveries shall be made within the specified timeframe according to Sections.



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- **TERM OF AGREEMENT** The term of this agreement shall be for a one (1) year initial period.
- 3.10 OPTION TO EXTEND The City, may, at its option, and upon mutual agreement with the Contractor, extend the term of this agreement for an additional four (4) years. Contractor shall be notified in writing by the City Materials Manager of the City's intention to extend the contract period at least thirty (30) calendar days prior to the expiration of the original contract period.
- **CHANGES OR ADDITIONS OF PRODUCTS OR SERVICES** The City reserves the right to revise or make changes within the general Specifications as deemed necessary to best serve the interest of the City. All changes shall be documented by formal amendment to the contract.
- **INSURANCE** The Contractor, performing as an independent Contractor hereunder, shall be fully responsible for providing Workers' Compensation or other applicable insurance coverage for itself and its employees and the City shall have no responsibility of liability for such insurance coverage.

Contractor shall provide to the City a copy of the policy or a certification by the insurance carrier, showing the Contractor to have in effect during the term of this contract, a General Liability Insurance policy, which shall be the primary coverage for Contractor activities under this contract. The coverage limits of such insurance shall not be less than those listed below.

The insurance company issuing the policy required above shall have an AM Best financial rating of "A-" or better and be authorized by the State of Arizona Department of Insurance to transact business within the State. The certificate and policy shall name the City as an additional insured and shall be primary and non-contributory coverage. The City shall also be an additional insured to the full limits of the liability insurance purchased by the Consultant even if those limits are in excess of those required by this contract.

The City reserves the right to terminate any Contractor agreement if the Contractor fails to maintain such insurance coverage.

Contractor must provide certification of insurance compliance within ten (10) calendar days after notification of award. Certification must include: name and address of insurance company; policy number; liability coverage amounts; a statement the policy will not be canceled or failed to be renewed without thirty (30) days written notice to the City.

Certification to be submitted to: Materials Management, 5850 West Glendale Avenue, Suite 317, Glendale, Arizona 85301.

| Type of Insurance | <u>Limits of Liability</u> |
|-----------------------|----------------------------|
| (Minimum) | |
| Workers' Compensation | Statutory |
| Employer's Liability | |
| Each Accident | \$100,000 |
| Disease-Each Employee | \$100,000 |
| Disease-Policy Limit | \$500,000 |
| | |

Commercial General Liability shall cover liability arising from bodily injury, property damage, products-completed operations, personal and advertising injury, independent Contractors, and broad form contractual coverage.

Each Occurrence \$1,000,000



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Personal and Advertising \$1,000,000 General Aggregate \$2,000,000 Products-Completed Operations \$1,000,000

Automobile Liability – Including bodily injury and property damage for any owned, hired and non-owned vehicles used in the performance of the services.

Combined Single Limit (CSL) \$1,000,000

3.13 INDEMNIFICATION CLAUSE:

To the extent allowed by law, Contractor shall defend, indemnify, and hold harmless the City of Glendale, and its departments, boards, commissions, officers, officials, agents, employees and volunteers (hereinafter referred to as "Indemnitee") from and against any and all claims, actions, liabilities, damages, losses, or expenses (including court costs, attorneys' fees, and costs of claim processing, investigation and litigation) (hereinafter referred to as "Claims") for bodily injury or personal injury (including death), or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Contractor or any of its owners, officers, directors, agents, employees or subcontractors. This indemnity includes any claim or amount arising out of, or recovered under, the Workers' Compensation Law or arising out of the failure of such contractor to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. It is the specific intention of the parties that the Indemnitee shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of the Indemnitee, be indemnified by Contractor from and against any and all claims. It is agreed that Contractor will be responsible for primary loss investigation, defense and judgment costs where this indemnification is applicable. In consideration of the award of this contract, the Contractor agrees to waive all rights of subrogation against the City of Glendale, its officers, officials, agents, employees and volunteers for losses arising from the work performed by the Contractor for the City of Glendale.

3.14 EMERGENCY BUSINESS SERVICES During a natural disaster, or homeland security event, there may be a need for the City to access your business for products or services twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. The need could be for a pick up or a delivery.

For this purpose, a primary and secondary emergency contact name and phone number are required from the Contractor. It is critical to the City that the contactor's emergency contact information remains current. The Materials Management staff member, identified on page 1, is to be contacted by E-mail with any change to a contact name or phone number.

All products or services provided to meet an emergency phone request are to be supplied as per the contract prices, terms and conditions. The Contractor may provide the fee (pricing) for an after-hours emergency opening of the business separate from the Price Sheet (Section 4.0). In general, the order will be placed using a City Procurement Card.

- 3.15 <u>WARRANTIES</u> Contractor warrants that all materials, service, or construction delivered under this contract shall conform to the specifications of this contract. Any defects of design, workmanship, or materials that would result in non-compliance with the contract specification, shall be fully corrected by the Contractor (including labor and materials) without additional cost to the City.
- **3.16 NON-DISCRIMINATION** By submitting this Bid, Contractor agrees not to discriminate against any employee or applicant for employment on the basis of race, color, religion, sex, national origin, age, marital status, sexual orientation, gender identity or expression, genetic



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characteristics, familial status, U.S. military veteran status or any disability. Contractor will require any Sub-contractor to by bound to the same requirements as stated within this section. Contractor, and on behalf of any subcontractors, warrants compliance with this section.

- 3.17 COMPLIANCE WITH LAWS: Contractor agrees to fully observe and comply with all applicable Federal, State and local laws, regulations, standards, codes and ordinances when performing under this Contract regardless of whether or not they are referred to by the City. Contractor agrees to permit City inspection of Contractor's business records, including personnel records to verify any such compliance. Because the Contractor will be acting as an independent contractor, the City assumes no responsibility for the Contractor's acts.
- **3.18 EMERGENCY PURCHASES** The City reserves the right to purchase from other sources those items which are required on an emergency basis and cannot be supplied immediately from stock by the Contractor.
- **RESPONSIBILITY FOR CORRECTION** It is agreed that the Contractor shall be fully responsible for making any correction, replacement, or modification necessary for specification or legal compliance. In the event of any call back, Contractor agrees to give the City first priority. Contractor agrees that if the product or service offered does not comply with the foregoing, the City has the right to cancel the purchase at any time with full refund within 30 calendar days after notice of non-compliance and Contractor further agrees to be fully responsible for any consequential damages suffered by the City.
- **3.20 PERFORMANCE INTERFERENCE** Contractor shall notify the department contact immediately of any occurrence and/or condition that interferes with the full performance of the contract, and confirm it in writing within twenty-four (24) hours.

Department Contact: Wayne Smith

Phone: 602.930.4411

3.21 <u>CERTIFICATION</u> By signature on the Offer/Bid page, solicitation Amendment(s), or cover letter accompanying the submittal documents, Contractor certifies:

The submission of the offer did not involve collusion, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the invitation to bid, designed to limit independent bidding or competition or other anti-competitive practices. The Contractor shall not discriminate against any employee or applicant for employment in violation of Federal or State law. The Contractor has not given, offered to give, nor intends to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, meal or service to a public servant in connection with the submitted offer. The Contractor hereby certifies that the individual signing the submittal is an authorized agent for the Contractor and has the authority to bind the Contractor to the Contract.

By signing the bid, the bidder certifies that the bid submitted has been arrived at independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the invitation to bid, designed to limit independent bidding or competition.



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4.0 CONDITIONAL ACCEPTANCE **INVITATION FOR BID NO. IFB # 16-31** TITLE: FIREFIGHTER TURNOUT GEAR 1. Subject to City Council approval, this notification constitutes a conditional acceptance of your bid to provide the materials listed on the Price Sheet. All terms and conditions of the IFB shall apply. The term of the proposed Agreement shall be a one (1) year initial period with the option of the City and 2. with the approval of the Contractor to extend the proposed agreement for four (4) additional years in one (1) year increments based on satisfactory contract performance. A Department administrator will oversee the proposed Agreement for the City. The City's contract 3. administrator is This Conditional Acceptance does not constitute a commitment to purchase on the part of the City of 4. Glendale. You are required to sign three (3) copies of this Acceptance form and return with this Bid. Failure 5. to furnish signed copies of this document to the City of Glendale will be considered a default, and your refusal to contract with the City. The City is entitled to any remedies or rights as may be granted by law. OFFER The Undersigned hereby offers and agrees to furnish the material or service in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the bid. Contractor Name: Contractor Signature: Company Address: _____ Printed Name and Title: _____ Telephone No. Company Federal I.D:______ Arizona Sales Tax No._____ Email Address: ACCCEPTANCE OF OFFER The Offer is conditionally accepted. The Contractor is now bound to sell the materials or services specified in the IFB, including all terms and conditions, specifications, addenda, etc. Contractor is cautioned not to provide any material or service under this proposed Agreement until City Council has approved the expenditure and Contractor receives a Purchase Order. ATTEST: City of Glendale City Manager or Designee Signature: **Printed Name and Title:** City Clerk (SEAL) APPROVED AS TO FORM: Kevin R. Phelps City Manager **City Attorney** Date:



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5.0

BIDDING SCHEDULE

Bidders shall thoroughly complete the Price Sheet as requested. The Unit Price shall include, but is not limited to, shipping, labor, equipment, tools, materials, supplies, licenses, fees, insurance, profit, and any other associated direct or indirect costs. Sales tax shall not be included in the Unit Price.

| 5.1 | 5.1 FIREFIGHTER TURNOUT GEAR | | | | | |
|-------------|--|--------------|--|----|----|--|
| Item No. | Estimated Quantities (A) Unit Description Unit Price (B) | | Extended Amount (A X B) | | | |
| 5.1.1 | 150 | Each | STRUCTURAL FIREFIGHTING HELMET Mfg/Model: \$ | | \$ | |
| 5.1.2 | 150 | Each | TURNOUT COATS Mfg/Model: | \$ | \$ | |
| 5.1.3 | 150 | Each | TURNOUT PANTS Mfg/Model: | \$ | \$ | |
| 5.1.4 | 200 | Pair | STRUCTURAL FIREFIGHTING GLOVES Mfg/Model: | \$ | \$ | |
| 5.1.5 | 800 | Each | STRUCTURAL FIREFIGHTING HOODS Mfg/Model: | \$ | \$ | |
| 5.1.6 | 100 | Pair | STRUCTURAL FIREFIGHTING BOOTS – HONEYWELL BT5007 | \$ | \$ | |
| 5.1.7 | 100 | Pair | STRUCTURAL FIREFIGHTING BOOTS – GLOBE SHADOW TM | \$ | \$ | |
| 5.1.8 | 100 | Pair | STRUCTURAL FIREFIGHTING BOOTS – BLACK DIAMOND X2 | \$ | \$ | |
| 5.1.9 | 125 | 5 Gallons | TURNOUT SOAP/CITROSQUEEZE | \$ | \$ | |
| | GRAND TOTAL (Items 5.1.1 through 5.1.9) \$ | | | | | |

| 5.2 | TAX AMOUNT | Bidders should not include transaction use tax or federal | tax in their unit price. | For |
|-----|--------------------|---|--------------------------|-----|
| | the purpose of det | termining the lowest cost, the City will not take tax into co | onsideration. | |

| T | ax | Rate: | | 9/ | ó |
|---|----|-------|--|----|---|
|---|----|-------|--|----|---|



| 5.3 | B DELIVERY Bidder states that all orders shall be delivered per Section 1.2.9 after receipt o purchase order, contract release document or written notice to proceed from the City of Glendale. |
|-----|--|
| 5.4 | PROCUREMENT CARD ORDERING CAPABILITY Please check appropriate box. |
| | YES, I will accept payment under this contract with the Procurement Card. |
| | NO, I will not accept payment under this contract with the Procurement Card. |
| Co | ompany Name: |