



Carrie Eklund  
Central Services Manager  
Finance Department

**INVITATION TO BID  
FIRE PROTECTIVE GEAR  
BID NO.: 614-F-067**

6/10/14

Name of Bidding Firm: \_\_\_\_\_

Address \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_

**Bid Opening Time and Date**                      **11:00 a.m., Local Time, Wednesday, July 2, 2014**

*Bids will be accepted until the specified opening time and date. Any bidder attempting to deliver after the opening time and date will be refused.*

**Mandatory Pre-Bid Meeting**                      **2:00 p.m. Local Time, Monday, June 23, 2014,**

Bid Deposit/Bid Bond:                              NO

Prevailing Wage                                      NO

Performance Bond:                                      NO

**PLEASE MARK THE RETURN SEALED ENVELOPE:**

1.        *Bid Opening Date and Time*
2.        Title of Job
3.        Bid Number

**RETURN BIDS TO:**

City of Rockford  
Central Services Manager  
425 East State Street, 4<sup>th</sup> Floor  
Rockford, Illinois 61104  
Telephone: (815) 987-5560

***BIDS SUBMITTED BY FASCIMILE OR E-MAIL WILL NOT BE ACCEPTED***

**BID RESULTS:**

Bid results may be obtained by telephone at (815) 987-5560, by fax at (800) 380-7174. or at [www.rockfordil.gov](http://www.rockfordil.gov)

## CITY OF ROCKFORD, ILLINOIS—BIDDING GENERAL CONDITIONS

1. Pricing. The bidder shall insert price for all bid items and all other information requested in these specifications. The price shall be the *full, delivered cost* to the City of Rockford with no additions.
2. Total versus "Per Item" Awards. The City generally awards contracts based on a lump sum basis to the lowest responsible and responsive bidder. However, the City may choose to award on a per item basis. Therefore, each bidder must submit pricing for each item indicated on the bid forms. Bidders must clearly indicate which items are bid and which are not.
3. Delivery of Merchandise. Delivery terms will always be Freight On Board (FOB)—Destination. The City of Rockford accepts no responsibility for the condition of any merchandise purchased prior to acceptance by City Personnel. Failure to comply with this requirement may constitute rejection of the bid.
4. Acceptance of Merchandise at Delivery. The City of Rockford reserves the right to refuse acceptance of delivered merchandise that differs substantially from the specifications in this invitation to bid or as otherwise permitted by Illinois law.
5. Prompt Payment Act. The City of Rockford intends to comply with the governmental prompt payment act. The awarded vendor will be paid upon submission of invoices to: City of Rockford Accounts Payable, 425 East State Street, Rockford, IL 61104.
6. W-9 Request for Taxpayer Identification Number. Prior to issuance of a purchase order, the successful bidder will be required to supply the City of Rockford with a federal W-9 Request for Taxpayer Identification Number and Certification. Failure to comply with this requirement will be considered a violation of contract terms, for which the City may bar the vendor from bidding for a period of up to three years.
7. Legal Compliance. The vendor awarded this contract will comply with all Federal, State, County, and City laws, ordinances, rules and regulations, which in any manner affect the product or service placed for bid herein. Lack of knowledge on the part of the awarded vendor of applicable law will in no way be cause for release of this obligation. If the City becomes aware of violation of any laws, ordinances, rules and regulations on the part of the awarded vendor, it reserves the right to reject any bid, cancel any contract, and pursue any other legal remedies deemed necessary.
8. Legal Requirements. This contract sets forth the entire final agreement between the City of Rockford and the bidder and shall govern the respective duties and obligations of the parties. The validity of this contract, and any disputes arising from the contract, shall be governed by the laws of the State of Illinois. Any litigation under this agreement shall be resolved in the trial courts of Winnebago County, State of Illinois. Should a provision of this contract be declared invalid by a court of competent jurisdiction, it shall not affect the validity of the remaining provisions of the contract.
9. Safety. Prevention of accidents at any project is the sole responsibility of the awarded vendor and its subcontractors, agents, and employees. The awarded vendor, its subcontractors, agents, and employees shall be fully and solely responsible for the safety of this project. The awarded vendor shall retain exclusive and direct control over the acts or omissions of its subcontractors, agents and employees, and any other persons performing portions of the work and not directly employed by the awarded vendor.

10. Criminal Background Check. When necessary for the protection of citizens and/or City staff, the City may require an awarded vendor to conduct a criminal background check on all of its personnel who will have direct contact with City facilities or residents/businesses served under this contract. Personnel are defined as representatives, agents, employees, subcontractors, or anyone else who will be utilized to fulfill obligations under this contract. Criminal background checks, at a minimum, shall consist of a county level felony and misdemeanor check for each county in which the personnel resided in the last 10 years. The awarded vendor shall notify the City of any of its personnel who have been convicted of a felony or misdemeanor prior to commencing any work under this contract. At the City's discretion, personnel with any felony or misdemeanor convictions which raise a concern about the safety of building, property, or City staff/resident's personal security, or is otherwise job related (as determined by the City) shall not perform work under this contract. Once given notice that a background check(s) will be required, it must be completed within 14 calendar days so as to not delay work to be completed.

11. Control of the Work. With respect to the awarded vendor's own work, the City shall not have contractual, operational, and/or supervisory control over and/or charge of the work and shall not be responsible for construction means, methods, techniques, sequences, procedures, and programs in connection with the awarded vendor's work, since these are solely the vendor's responsibility under the agreement. The City shall not be responsible for the awarded vendor's failure to carry out the work in accordance with the agreement's terms and conditions. The City shall not have control over and/or charge of acts or omissions of the awarded vendor, its subcontractors, and/or their agents or employees, or any other person performing portions of the work not directly employed by the awarded vendor. The awarded vendor shall be considered to be an "independent contractor" pursuant to Illinois law.

12. Bid Bond. When required on the cover sheet, a bid bond for not less than 5 percent of the bid amount must accompany all bids as a guarantee that if the bid is accepted, the bidder will execute and file the proper contract. A bank cashier's check, bank draft, or certified check equal to the amount specified is acceptable in lieu of a bid bond. Bid bonds of the two lowest firms will be retained until the contract is awarded.

13. Performance Bond. When required by the specifications herein, the awarded vendor shall furnish a performance bond equal to the amount of the contract, acceptable to the City, within 14 calendar days after notification of contract award. Failure to furnish the required bond within the time specified may be cause for rejection of the bid and any bid deposit may be retained by the City as liquidated damages and not as a penalty.

14. Taxes. No charge will be allowed for taxes from which the City of Rockford, Illinois is exempt. The City of Rockford, Illinois is not liable for the Illinois Retailers' Occupation Tax, the Service Occupation Tax or the Service Use Tax. The City is exempt from the Federal Excise and Transportation Tax.

15. Withdrawal of Bids. Firms may withdraw or cancel their bids at any time prior to the advertised invitation to bid opening. After the opening time, no bid shall be withdrawn or cancelled. All bids shall be firm and valid for a period of sixty (60) calendar days. If a bidder to whom a contract is awarded refuses to accept the award, the City may, at its discretion, suspend the bidder for a period of time up to three (3) years.

16. Subcontracting. The bidder shall provide information for all subcontractors, leased operators/equipment, and suppliers and all other information requested in the Subcontractor and Supplier Detail Forms attached. Requests for deviations from the completed detail forms submitted must be made in writing, and reviewed and approved by the City's Diversity Procurement Officer and the Central Services Manager or designee. The awarded vendor may not subcontract any portion of the contract after award without written consent of the City of Rockford

Central Services Manager. When subcontractors are used, the awarded vendor is required to pay subcontractors promptly after completion of work. Delay of payment is prohibited.

17. Termination of Contract. The City of Rockford reserves the right to terminate the contract in its entirety or in portions, upon written notice to the awarded vendor, if the Rockford City Council does not appropriate sufficient funds to complete the contract or in the event of default by the awarded vendor. Default is defined as failure of the awarded vendor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. In the event of default, the City may purchase the product(s) and/or service(s) from other sources and hold the defaulting company responsible for any excess costs occasioned thereby. The City may require payment of liquidated damages for non-performance. Should default be due to failure to perform or because of a request for a price increase, the City reserves the right to remove the firm from the City's bidder list for a period of up to three years.

18. Late Bids and Proposals. Regardless of cause, late bids and proposals will not be accepted and will automatically be disqualified from further consideration. It shall be solely the vendor's risk to ensure delivery at the designated office by the designated time. Late bids and proposals will not be opened and may be returned to the awarded vendor at their request and expense.

19. EEO Forms. Each firm shall be required to submit with its bid information all EEO forms included in the invitation to bid package. Any bid which fails to include the properly completed compliance items will not be read and will not be considered. All subcontractors shall also be required to comply with the same EEO forms as the firm.

20. Restrictive or Ambiguous Specifications. It is the responsibility of the bidding firm to review the invitation to bid specifications and to notify the Central Services Manager if the specifications are formulated in a manner that would unnecessarily restrict competition. Any such protest or question regarding the specifications or invitation to bid procedures must be received by the Central Services Division not less than seventy-two hours prior to the time set for the opening. In the event a contract term is not defined within the contract document, the term will be given its ordinary dictionary definition.

21. Bid Protest. Firms wishing to protest bids or awards shall notify the Central Services Manager in writing within 7 days after the invitation to bid opening. The notification should include the bid number, the name of the firm protesting, and the reason why the firm is protesting the bid. The Central Services Manager will respond to the protest within seven (7) calendar days. A successful protest may result in the reversal of a previously awarded contract.

22. Disputes. In case of disputes as to whether or not an item or service quoted or delivered meets specifications, the decision of the Central Services Manager, or authorized representative shall be final and binding to all parties. The Central Services Manager has the right to waive technicalities as they see fit. The Central Services Manager may request a written recommendation from the head of the department using the equipment or service being procured.

23. Exceptions. Any deviations from these specifications shall be noted and submitted with the bid. Failure to address deviations from specifications may result in bid rejection.

24. Acceptance/Rejection of Bids. The City of Rockford reserves the right to accept or reject any or all bids or proposals at any time, for any reason, including but not limited to the Rockford City Council not appropriating

sufficient funds to purchase equipment or complete the contract. The City may make awards in any manner deemed in the best interest of the City.

25. Prevailing Wage. When indicated on the cover page of this document, this contract calls for the construction of a "public work," within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 *et seq.* ("the Act"). The Act requires awarded vendors and subcontractors to pay laborers, workers, and mechanics performing services on public works projects no less than the "prevailing rate of wages" (hourly cash wages plus fringe benefits) in the county where the work is performed. When required, awarded vendors are responsible for paying current prevailing wage rates, as posted on the Illinois Department of Labor's website at: <http://www.state.il.us/agency/idol/rates/rates.HTM>. It is the awarded vendor's responsibility to verify current wage rates, as they are updated monthly. All awarded vendors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage, notice, and record keeping duties.

26. Certified Payroll. All Certified Payroll reports required to be submitted under the Prevailing Wage Act, 820 ILCS 130, must be submitted monthly via the City's current Certified Payroll reporting system. No paper copies or non-conforming Certified Payroll reports will be accepted. The City reserves the right to withhold payment due to the awarded vendor until the vendor displays compliance with this provision.

27. Substance Abuse Prevention. When required by Illinois State Statutes, awarded vendors must have in place and file with the City a written program for prevention of substance abuse among its employees. This program must include pre-hire, random, reasonable suspicion, and post-accident drug and alcohol testing, as required by the Substance Abuse Prevention on Public Works Projects Act.

28. Apprenticeship Requirement. For construction contracts over \$50,000, awarded vendors must participate in apprenticeship and training programs approved and registered with the United States Department of Labor's Bureau of Apprenticeship and Training for all Trades that will be in the awarded vendor's (or his subcontractor's) employment, with each worker receiving the required apprenticeship/training appropriate to his trade. Owners or work performed by owners is not exempt from the apprenticeship and training requirement.

29. Indemnification. To the fullest extent permitted by law, the awarded vendor shall indemnify and hold harmless the City, its officers, representatives, elected and appointed officials, agents, and employees from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from the awarded vendor's performance of work under this agreement, and indemnifies and agrees to defend and hold harmless the City against any and all losses, claims, damages, and expenses arising from the work performed hereunder of the erection, construction, placement, or operation of any scaffold, hoist, crane, stay, ladder, support, or other mechanical contrivance in connection with such work including but not limited to losses, claims, damages, and expenses arising pursuant to claims asserted against the City pursuant to theories premised upon section 414 of the Restatement (Second) of Torts and section 343 of the Restatement (Second) of Torts.

This indemnification agreement shall not be limited in any way by any limitations on the amount or type of damages, compensation, or benefits payable by or for the awarded vendor under Worker's Compensation Acts, disability benefit acts, or other employee benefit acts, and serves as an express agreement to waive the protection of *Kotecki v. Cyclops Welding Corp.*, 146 Ill.2d 155, 585 N.E.2d 1023 (1991) in Illinois.

Further, the awarded vendor agrees that it is solely responsible for compliance with all safety laws applicable to the work performed hereunder, including but not limited to the Occupational Safety and Health Act of 1970 and

the Construction Safety Act of 1960 and all standards and regulations which have been or shall be promulgated by the agencies which administer the Acts.

Under no circumstances shall the awarded vendor, its subcontractors, agents, and employees be required to indemnify the City for its own negligence.

30. Officers. Each bidder affirms, by submission of a response to this bid or request for proposals, that no officer of the City of Rockford, Illinois, is directly or indirectly interested in the proposal for any reason of personal gain.

31. Non-Waiver. The failure by the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this contract constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

32. Professional Services Selection Act. The City of Rockford intends to comply with 50 ILCS 510/5 governing the selection of professional services. Any reference in these terms and conditions to supplying pricing or price as a determining factor in selection do not apply for services covered by said act.

33. The City of Rockford reserves the right to accept or reject any and all proposals and to waive technicalities in submitted bids.

**BID REQUIREMENTS FOR  
EQUAL EMPLOYMENT OPPORTUNITY**

All bidders seeking to do business with the City of Rockford are **REQUIRED** to submit with any formal, sealed bid all of the following documents and information, attached herewith, completed and signed:

1. Equal Employment Opportunity Affirmative Action Plan Statement of Policy.
2. The Statement of Non-Compliance and Certificate of Non-Segregated Facilities.
3. The Contractor or Vendor Workforce Data Form listing all current employees, by classification, directly employed by the bidder. All categories of information requested must be supplied.  
*Note: The number of employees must be entered under each category (no check marks)*

Below are the Federal definitions of the following racial groups accepted as minorities by the City of Rockford:

- Black: A person having origins in any of the Black racial groups of Africa, not of Hispanic origin.  
Hispanic: A person of Spanish or Portuguese culture with origins in Mexico, South or Central America, or the Caribbean Islands, regardless of race.  
Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes for example, China, Japan, Korea, the Philippine Republic and Samoa.  
American Indian or Alaskan Native: A person having origins in any of the original peoples of North America.

4. Your State of Illinois Pre-Qualification Certification Number, issued by the Illinois Department of Human Rights for the Illinois Department of Human Rights Act, **must provide expiration date entered in the place provided therefore.**
5. Certificate of Non-Barred Bidding
6. All executed Subcontractor/Leased Operator and Supplier forms.

**If you have not obtained your State of Illinois Pre-Qualification Number (item #4), by signing these documents you agree to make application for this number within 30 days from the date of bid opening.**

***ANY BID WHICH FAILS TO INCLUDE THE CITY OF ROCKFORD EEO PAGES 2, 4, AND 5, COMPLETED AND SIGNED WITH YOUR SEALED BID WILL NOT BE READ AND WILL NOT BE CONSIDERED – NO EXCEPTIONS.***

Falsification of any required Equal Employment Opportunity or Affirmative Action information on the part of the bidder could result in rejection of the bid submitted or in the case where a contract has already been awarded, in the cancellation of said contract.

Any questions pertaining to E.E.O. requirements should be addressed to Ron Moore, Diversity Procurement Officer, Legal Department, 425 East State Street, Rockford, Illinois 61104, Phone: (815) 987-5622 or [ron.moore@rockfordil.gov](mailto:ron.moore@rockfordil.gov)

**EQUAL EMPLOYMENT OPPORTUNITY**  
**AFFIRMATIVE ACTION PLAN**  
**STATEMENT OF POLICY**

It is the policy of this company, \_\_\_\_\_  
to provide equal employment opportunity without regard to race, religion, color, national origin, handicap, age or sex through a program of positive action affecting all employees. In this program, our company carries out the requirements of Federal Executive orders 11246 and 11375, Civil Rights Act of 1964, Equal Employment Act of 1972, and all other applicable laws, and indicates its active support of the principle of equal opportunity in employment.

At present, \_\_\_\_\_ % of our work force are minorities and \_\_\_\_\_ % of our work force are females, and we will attempt to utilize minorities and females through a positive, continuing program in all jobs for which we contract in the future. Our company will utilize referrals from the City of Rockford's Diversity Procurement Officer for use of minorities and females regarding any future job vacancies.

It is also our intent to make efforts to purchase supplies or equipment from small business concerns located in the City of Rockford or counties of Winnebago or Boone and owned in substantial part (at least 51 per cent) by minorities or females.

\_\_\_\_\_ is the official who will be responsible for implementing this policy statement.

\_\_\_\_\_ will be designated as the Equal Opportunity Officer in our company, responsible for submission of all required equal employment opportunity documents.

In addition, \_\_\_\_\_ is hereby authorized to sign payroll as well as this company's officers. (NOTE: If only officers will be authorized to sign payrolls, please fill in "No One" in this space.)

## **STATEMENT OF NONCOMPLIANCE**

If the equal employment opportunity hearing committee determines that a contractor, subcontractor/leased operator of equipment or bidder is not in compliance with this chapter, (also known as Chapter 11, Article III the City of Rockford Equal Opportunity Employment Ordinance), the hearing committee shall issue and serve upon such person a written statement of noncompliance setting forth the manner in which it finds such person has violated this chapter, and imposing and/or requiring appropriate sanctions, including, but not limited to any and/or all of the following:

- a. Denying, suspending or revoking qualifications, or declaring the contractor or subcontractor irresponsible and ineligible for future contracts or subcontracts until such time as the contractor or subcontractor shall demonstrate to the equal employment opportunity hearing committee that it is in compliance;
- b. Withholding or delaying payment on the contractor or;
- c. Suspending, avoiding or canceling contract work.

## **CERTIFICATION OF NON-SEGREGATED FACILITIES**

The bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his/her establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid.

The bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors/leased operators of equipment for specific time periods) he/she will obtain identical certification from proposed subcontractors/leased operators of equipment from the provisions of the Equal Opportunity clause, and that he/she will retain such certification in his/her files.



**CERTIFICATE OF NON-BARRED BIDDING**

The undersigned certifies that it is not barred from bidding on this contract as a result of a conviction for the violation of State laws prohibiting bid rigging or bid rotating. The undersigned also certifies that current or prospective employees, contractors, and subcontractors/leased operators of equipment are not listed as Excluded Individuals/Entities with the US Government, as maintained by the US General Services Administration.

By signing below, the firm agrees that all information provided in the previous pages is accurate, and that if the firm below does not currently have a Department of Human Rights number they will apply for one within thirty days with the State of Illinois.

\_\_\_\_\_

Authorized Signature

\_\_\_\_\_

Title

\_\_\_\_\_

Firm

Our firm is a:

Minority Business Enterprise \_\_\_\_\_

Women Business Enterprise \_\_\_\_\_

Neither \_\_\_\_\_

City-Certified? Yes \_\_\_\_\_ No \_\_\_\_\_

City Certified? Yes \_\_\_\_\_ No \_\_\_\_\_

(Revised 12/21/09)

## Request for Taxpayer Identification Number and Certification

**Give Form to the  
requester. Do not  
send to the IRS.**

<b>Print or type See Specific Instructions on page 2.</b>	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate  <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____  <input type="checkbox"/> Other (see instructions) ▶ _____	Exemptions (see instructions):  Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	<b>City of Rockford 425 East State Street Rockford IL 61104</b>
List account number(s) here (optional)		

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

<b>Social security number</b>	
-	
-	
-	

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

### Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
3. I am a U.S. citizen or other U.S. person (defined below), and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶
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### General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** The IRS has created a page on IRS.gov for information about Form W-9, at [www.irs.gov/w9](http://www.irs.gov/w9). Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

### Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

- Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:
1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
  2. Certify that you are not subject to backup withholding, or
  3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the

withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

**Note.** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity,
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust, and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS a percentage of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

### Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* on page 1.

**What is FATCA reporting?** The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

**Sole proprietor.** Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name/disregarded entity name" line.

**Partnership, C Corporation, or S Corporation.** Enter the entity's name on the "Name" line and any business, trade, or "doing business as (DBA) name" on the "Business name/disregarded entity name" line.

**Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulation section 301.7701-2(c)(2)(iii). Enter the owner's name on the "Name" line. The name of the entity entered on the "Name" line should never be a disregarded entity. The name on the "Name" line must be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on the "Name" line. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on the "Business name/disregarded entity name" line. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

**Note.** Check the appropriate box for the U.S. federal tax classification of the person whose name is entered on the "Name" line (Individual/sole proprietor, Partnership, C Corporation, S Corporation, Trust/estate).

**Limited Liability Company (LLC).** If the person identified on the "Name" line is an LLC, check the "limited liability company" box only and enter the appropriate code for the U.S. federal tax classification in the space provided. If you are an LLC that is treated as a partnership for U.S. federal tax purposes, enter "P" for partnership. If you are an LLC that has filed a Form 8832 or a Form 2553 to be taxed as a corporation, enter "C" for C corporation or "S" for S corporation, as appropriate. If you are an LLC that is disregarded as an entity separate from its owner under Regulation section 301.7701-3 (except for employment and excise tax), do not check the LLC box unless the owner of the LLC (required to be identified on the "Name" line) is another LLC that is not disregarded for U.S. federal tax purposes. If the LLC is disregarded as an entity separate from its owner, enter the appropriate tax classification of the owner identified on the "Name" line.

**Other entities.** Enter your business name as shown on required U.S. federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name/disregarded entity name" line.

## Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the *Exemptions* box, any code(s) that may apply to you. See *Exempt payee code* and *Exemption from FATCA reporting code* on page 3.

**Exempt payee code.** Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends. Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.

**Note.** If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following codes identify payees that are exempt from backup withholding:

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 5 <sup>2</sup>
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.  
<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney, and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements.

- A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)
- B—The United States or any of its agencies or instrumentalities
- C—A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities
- D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Reg. section 1.1472-1(c)(1)(i)
- E—A corporation that is a member of the same expanded affiliated group as a corporation described in Reg. section 1.1472-1(c)(1)(i)
- F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

- G—A real estate investment trust
- H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940
- I—A common trust fund as defined in section 584(a)
- J—A bank as defined in section 581
- K—A broker
- L—A trust exempt from tax under section 664 or described in section 4947(a)(1)
- M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

**Part I. Taxpayer Identification Number (TIN)**

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

**Part II. Certification**

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on the "Name" line must sign. Exempt payees, see *Exempt payee code* earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

1. **Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.
2. **Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.
3. **Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.
4. **Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).
5. **Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

**What Name and Number To Give the Requester**

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>1</sup>  The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulation section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulation section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or "DBA" name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 1.

\*Note. Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

**Secure Your Tax Records from Identity Theft**

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

**Privacy Act Notice**

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

## FIRE PROTECTIVE GEAR

Bid No.: 614-F-067

### 1. General Scope

The City of Rockford has a need to purchase Fire Protective Coats, Trousers, Helmets, Hoods, Boots, and Gloves for use by the City of Rockford Fire Department. The following specification and bid package is intended to describe the minimum acceptable product to fulfill this need.

### 2. General Requirements

- 2.1 Basis of Award. The City will award this contract to the lowest responsive and responsible bidder that is able to meet the requirement and criteria set forth in this document. Bidders may bid any or all items. Awards may be made on a per item basis, combination of items, or whatever combination of bids the City deems most advantageous. To avoid interface problems, it is the intent of the City of Rockford that coats and pants are procured from the same manufacturer.
- 2.2 Contract Length. The City of Rockford may, at their option and with the approval of the contractor, extend the period of this agreement up to three (3) additional years, in one-(1) year increments. Contractor shall be notified in writing by the Central Services Director of the City's intention to extend the contract period at least sixty (60) calendar days prior to the expiration of the original contract period. Prior to the contract extension, both parties must agree to contract terms and prices prior to the day the contract is scheduled to expire. If the parties fail to reach mutually agreeable terms, the City of Rockford may re-bid the contract.
- 2.3 Price Adjustments. Price adjustments will only be considered at contract renewal. Any requests for price increase must be submitted in writing to the Central Services Manager sixty (60) days prior to contract expiration. Any increases beyond the consumer price index for the time period must be justified by submitting product literature for the specific parts that explain or justify the price increase. The City will evaluate all requests for increases prior to contract extension and will factor such requests into the decision to renew.
- 2.4 Termination of Contract. If the department determines that the turnout gear is not delivered in a timely manner, this will be cause to terminate the contract. The City of Rockford Fire Department will then provide the vendor 30 days notice before terminating the contract and will re-bid for turnout gear.
- 2.5 Joint Purchasing Contract. The City expects the awarded vendor to extend these contract terms and pricing to additional fire districts. The City dispatches for the following districts/departments, who will be able to utilize this contract:
- West Suburban Fire Department
  - Blackhawk Fire Department
  - New Milford Fire Department
  - Northwest Fire Department
  - Cherry Valley Fire Department
- 2.6 Contact. All questions regarding these specifications are to be directed to Carrie Eklund, Central Services Manager, (815) 987-5565 or [carrie eklund@rockfordil.gov](mailto:carrie eklund@rockfordil.gov).
- 2.7 Pre-Bid Meeting. A mandatory pre-bid meeting will be held at 2 pm on June 23<sup>rd</sup> at the Rockford Fire Department Headquarters, 204 S. First St., Rockford, IL 61104.

### 3. Scope of Work

For the supply of the described equipment on an "as needed" basis during the contract period beginning on or about November 1, 2014

- 3.1. General Specifications. To supply state of the art fire protective turnout coats, trousers, gloves, hoods, boots, and helmets, for use by the Rockford Fire Department. It is intended that the successful bidder shall use materials and design practices that are the best available in the industry for heavy duty use in structural fire fighting, to which fire protects turnout coats, trousers, hoods, gloves, boots, and helmets will be subject. The garments and helmets shall be manufactured in the United States.
- 3.1.1 Items shall be complete with all equipment and accessories necessary for safe and efficient use, and shall be delivered as complete units.
- 3.1.2 If any of the parts or components bid vary from the specification, such variations must be listed in writing and attached as part of the proposal. NO EXCEPTIONS.
- 3.1.3 The completed bid shall not include components, or finished units that are of a prototype nature, or have not been in production for a sufficient period of time to prove their performance capabilities, except as may be specifically required
- 3.2 Samples. All bidders responding to this invitation for bid will be required to submit samples of their items offered for review, examination, and evaluation with their bid response. Any sample submitted shall create an express warranty that the whole of the goods shall conform to the sample submitted. All samples from the successful bidder become the property of the City of Rockford. After the contract has been awarded to the successful bidder, the samples from the unsuccessful bidders will be released for pickup at the Fire Department Headquarters (204 S. 1<sup>st</sup> Street). The City is not responsible for any damage during the evaluation of the sample to ensure compliance with specification.
- 3.3 Inspections. All merchandise i.e. fire protective coats, trousers, and helmets shall be inspected before acceptance by an authorized representative of the Rockford Fire Department for workmanship, appearance, proper function of all components, and conformance to these specifications. Failure in compliance will be cause for the purchaser to reject all or part of the bid units. Should deficiencies be found, it shall be the responsibility of the supplier to pack and return the unit(s) in question, make necessary corrections or replacements, then return to Rockford Fire Department for re-inspection and acceptance. NOTE: Payment and/or commencement of discount period (if applicable) will not be made until all corrections have been made and units have been accepted.
- 3.4 Guarantee. Manufacturer delivering merchandise against this specification shall guarantee that it meets all requirements set forth herein and the requirements of NFPA 1971, most current standard. If it is found that the merchandise does not meet the requirements of this specification, the supplier will be required to correct merchandise at supplier's expense.
- 3.5 Warranty. A minimum of a two-(2) year manufacturer's warranty on materials and workmanship shall be provided. A copy of the manufacturer's warranty shall be included with bid submittal. The vendor shall be responsible for all transportation costs incurred during the warranty period.
- 3.6 Delivery. Deliveries shall be made to the City of Rockford Fire Department, 204 S. First Street, Rockford, Illinois, 61104 between 8:00 a.m. and 3:00 p.m. Monday through Friday. No holiday deliveries will be accepted. Partial shipments will be accepted on an individual release; however, payment will not be made until the release order is complete. Delivery of products shall be completed within 90 days of placing the original order.
- 3.7 Exceptions. The items specified below represent materials that have been extensively tested and approved for use by the Health and Safety Committee of the City of Rockford Fire Department. The materials, fabric, special product features, sizes, patterns, and colors have been selected because they have been proven to be the most efficient in training and emergency field operations. Any deviation from this specification must be identified with the bidders' offer.
- 3.8 Pre-Order Conference. There shall be a pre-construction conference for fire protective coats and trousers with the successful bidder and two representatives of the Rockford Fire Department. This conference shall be at the

manufacturer's factory at a mutually agreed upon time prior to commencement of construction of the turnout coats and trousers. This conference shall be at no cost to the City of Rockford. There shall be a pre-construction conference for fire protective helmets with the successful bidder. This conference shall be in Rockford, Illinois, at a mutually agreed time prior to commencement of construction of the helmet. This conference shall be at no cost to the City of Rockford.

#### 4. Specifications for Fire Protective Coat and Trouser

The awarded contract shall be for coat and trousers, from one manufacturer only. **NO EXCEPTIONS**

##### 4.1 Trade Names.

PBI® Max	Southern Mills
Caldura SL	Southern Mills
Crosstech®	W.L. Gore
E-89®, Kevlar®, Nomex®, Teflon®	DuPont
Scotchlite™	3M
Velcro®, Hook, and Pile (loop)	Velcro, USA

4.2 Outer Shell Material. The outer shell shall be PBI Max constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI/KEVLAR spun yarns/30% 600 denier KEVLAR filament in a twill weave with extremely durable FPE water resistant Teflon FPE alloy finish. Color shall be natural (gold).

##### 4.3 Moisture Barrier Material.

4.3.1 CROSSTECH BLACK (Type 2F): NOMEX substrate laminated to a lightweight breathable, Teflon membrane; weighing 5.0 oz./sq. yd. **NO EXCEPTIONS**

4.3.2 All moisture barrier seams shall be sealed as required by NFPA 1971. **NO EXCEPTIONS**

4.3.3 All edges shall be finished so no raw edges are exposed.

4.4 Thermal Liner Material. The primary choice for the thermal liner shall be comprised of Glide high-lubricity, stress reducing, filament/spun face cloth weighing 3.6 oz./sq./yd. The high filament yarns, with superior wicking characteristics, 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, and promote superior moisture management within the microclimate of the garment. The Glide face cloth shall be quilted to one layer E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 2.3 oz./sq. yd. and one layer of apertured (11-13 apertures/sq. inch) E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon finish to promote minimal moisture stored in the garment microclimate as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

4.5 Performance Requirements, TPP, THL, and CCHR. Composite Requirements on Thermal Protective Performance (TPP), Total Heat Loss (THL), and Conductive and Compressive Heat Resistance (CCHR), shall be based on a three layer garment, consisting of an outer shell, moisture barrier, and thermal liner. **TPP, THL, and CCHR, TEST RESULTS SHALL BE REPORTED AS PART OF THE BID PACKAGE. NO EXCEPTIONS.**

4.5.1 The composite shall have a Thermal Protective Performance (TPP) of not less than 35 when tested in accordance with NFPA 1971, 2007, most current edition. **NO EXCEPTIONS.**

4.5.2 The composite shall have a TOTAL HEAT LOSS (THL) rating of not less than 250. **NO EXCEPTIONS.**

4.5.3 The composite shall have a CONDUCTIVE COMPRESSION HEAT RESISTANCE RATING (CCHR) rating of not less than 35.2 wet and 36.1 dry in the shoulder area of the jacket. This rating shall be uniform throughout the shoulder area. The pant knee area shall exhibit a CCHR rating of not less than 35.0 wet and 37.6 dry. This rating shall be uniform throughout the knee and cover the area under the knee reinforcement (see section on knee reinforcement). **NO EXCEPTIONS.**

##### 4.6 Ventilated Reflective Trim.

4.6.1 Ventilated Trim shall be of 3" Scotchlite II (triple trim) of red/orange perforated with 0.08mm holes (114 per square inch).

4.6.2 The reflective 2"x3" American flag shall be placed on the left arm with the field of stars orientated to the front.

- 4.7 Hook and Loop. All hook and loop fastener tape shall be manufactured by Velcro USA, black in color, and flame resistant. The hook designation shall be HK 088 and the loop designation shall be LP 1000. Class 2 hooks and loop fastener tape shall not be permitted.
- 4.8 Certification.
- 4.8.1 All components and composites used in the construction of garments shall be Third party tested, certified, and listed for compliance to NFPA 1971, 2007, most current edition.
- 4.8.2 The certification label of the third party tester shall denote such certification.
- 4.8.3 To ensure that garments manufactured to this specification consistently meet established levels of quality control and are constructed to this specification, the successful manufacturer shall be certified to ISO 9001.
- 4.9 Tracking Labeling System: There shall be a PDF417, two-dimensional bar code label permanently affixed to each garment for tracking purposes. The bar code shall contain a minimum of the following information:
- a. unique serial number
  - b. item description (brand, model, material color)
  - c. lot information (date of mfg., size, etc.)
  - d. material description
  - e. the standard to which the garment is compliant
- 4.9.1 The bar code shall be able to withstand customary wash and wear cycles. The PDF417 bar code must incorporate a minimum of a 30% "error correction" capability.
- 4.9.2 THIS GARMENT MEETS THE GARMENT REQUIREMENTS OF NFPA 1971, 2007, STANDARD ON PROTECTIVE ENSEMBLE FOR STRUCTURAL FIRE FIGHTING, 2013 EDITION
- 4.9.3 Each individual garment shall bear, prominently displayed, an identification that allows its original manufacturer's garment identification number, size, date of manufacture, and batch of materials to be traced for the purpose of warranty and liability information. The ink used for entering this information shall be capable of surviving normal use and washing and remain readable.
- 4.10 User information. Each garment shall include a *User Information Guide* with information required by NFPA 1971, 2007 edition standard. The successful bidder shall provide the Fire Department with a videotape containing information on the sizing, cleaning, maintenance, inspection, use, and retirement of structural protective turnout coats. The Fire Department will assist the manufacturer. This video will feature Rockford Fire Department personnel.
- 4.11 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:
- 4.11.1 There shall be a research and development conference for fire protective coats, and trousers, with the manufacturer and a representative of the Rockford Fire Department. This conference shall be at a mutually agreed place and time, once per contracted year. This conference shall be at no cost to the City of Rockford.
- 4.11.2 The manufacturer shall provide, at no cost to the City of Rockford, a minimum of two (2) protective coats and two (2) protective trousers for wear test, each contracted year. The wear test coats and trousers shall include new technology fabrics and designs and must be approved by the Rockford Fire Department prior to construction.
- 4.12 Construction. Where specific information is provided, it is done so to establish a minimum level of quality, design, and/or performance.
- 4.13 Extra Material. 10yds of Outer shell (PBI Max) and 100 linear feet of Ventilated Trim, 3" Scotchlite II (triple trim) shall be provided at no cost to the department.

- 4.13 Sizes.
- 4.13.1 Coats shall be made available in even chest sizes with corresponding sleeve lengths available in short, regular, and long.
  - 4.13.2 Pant sizes shall be made available in even waist sizes with inseam lengths available in extra short, short, regular and long. Male and female sizing available.
- 4.14 Raw Edges. No raw edges shall exist on any fabric.
- 4.15 Thread. All thread shall be Nomex Thread.
- 4.16 Stitching. All stitches shall meet all applicable requirements of NFPA 1971, 2007 most current standard. All seams, including trim attachments, shall have a lock type stitch, except major "A" and "B" seams.
- 4.17 Stress Points. Jacket and trouser outer shell stress points, such as upper and lower pocket corners, pocket flap corners, top and bottom of fly flap, as well as the upper and lower corners of the storm panel, shall be reinforced with a minimum 42 stitch bar tack.
- 4.18 Metal Contact Prevention. The coat and trouser shall be constructed so that when completely assembled there shall be no direct metal contact from the exterior of the outer shell through the thermal liner to the wearer's body, except at the waist band of the trousers. This shall apply to the use of all rivets, snaps, hooks, D rings, zippers, or any other metal used to assemble the coat or trousers.
- 4.19 Coat Model/Design. CVFM Janesville V-Force Coat
- 4.19.1 The coat is designed of a 3-panel construction in all layers of V-fit design for optimum comfort and mobility. Sleeves shall be of raglan design.
  - 4.19.2 When measured at the center of the back from the collar seam to the hem bottom, the coat shall measure 32" or 35" long for male; 29" or 32" long for female.
- 4.20 Coat Outer Shell Material. The outer shell shall be PBI Max, constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI/KEVLAR spun yarns/30% 600 denier KEVLAR filament in a twill weave with extremely durable FPE water resistant Teflon FPE alloy finish. Color shall be natural (gold).
- 4.21 Coat Liner and Moisture Barrier.
- 4.21.1 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 high filament yarns, with superior wicking characteristics, 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, and promote superior moisture management within the microclimate of the garment. The Glide face cloth shall be quilted to one layer E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 2.3 oz./sq. yd. and one layer of apertured (11-13 apertures/sq. inch) E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 1.5oz. /sq. yd. both layers shall be treated with a Teflon finish to promote minimal moisture stored in the garment microclimate as well as promote rapid drying (Total weight +/- 7.3oz. /sq. yd.).
  - 4.21.2 Moisture Barrier: CROSSTECH BLACK (Type 2F): NOMEX substrate laminated to a lightweight breathable, Teflon membrane; weighing 5.0 oz./sq. yd.
  - 4.21.3 The liner shall have one 8.5" x 8.5" internal pocket which shall be made of black outer shell material.
  - 4.21.4 The liner pocket shall be located on the left side of coat liner.
  - 4.21.5 Quilt Thermal Liner Construction: The moisture barrier shall be sewn to the thermal liner at its perimeter with the breathable membrane oriented inward toward the thermal liner and away from the outer shell. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture barrier/thermal liner shall finish no more than 1" from the cuffs and 2" from the hem.
  - 4.21.6 Moisture Barrier/Thermal Liner Attachment: Completely Removable: The moisture barrier/thermal liner

shall be completely detachable from the outer shell for ease of cleaning by the use of hook and loop, zippers, and snaps. There shall be a zipper and two snaps down each front facing, hook and loop shall also be located around the entire neck opening. In addition, there will be a snap for alignment along the bottom of the liner, and one snap and hook and loop at each sleeve end. All moisture barrier seams shall be sealed as required by NFPA 1971.

#### 4.22 Coat Collar.

4.22.1 Moisture Barrier/Thermal Liner Construction: The liner collar shall be a layer of self-material and a layer of CROSSTECH Black. The design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. The left and right fronts of the liner collar shall be attached to the facings at the front closure of the outer shell. The neck of the liner collar shall be secured to the neck of the outer shell collar such that when donning the coat an arm may not be accidentally caught between the outer shell and its inner linings. A 4" wide CROSSTECH Black and 1.75" self-material extension shall be sewn the full length of the neck with two pieces of 1" loop for attachment to shell collar. The self-material extension shall overlap the shell collar to prevent exposure of the hook and loop. Collar closure shall be provided by FR hook and loop 1.5" x 4", with hook portion sewn on right side of collar, and loop portion sewn on left, set horizontal.

4.22.2 Collar: The 3" split collar shall consist of two-piece construction shaped for comfort. 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. To ensure this protection, the two layers of outer shell collar shall be fully lined with a layer of CROSSTECH Black. The shell collar shall provide proper interface with the liner to insure no moisture penetration through the collar seam to the inside of coat. The shell collar shall have two pieces 1" hook along top edge for liner attachment. The collar shall be attached to the liner facing using 1" hook. Collar shall be of such design so as not to interfere with SCBA facemasks, or helmet.

#### 4.23 Throat Tab.

4.23.1 The throat strap shall be of 4-layer configuration providing continuous thermal and moisture protection around the neck and face.

4.23.2 The throat strap shall be mounted to the outer shell collar to ensure that when the coat is closed and the collar is raised, the throat strap shall prevent any opening between the left and right collar.

4.23.3 To ensure this protection, the inside of the throat strap shall be fully lined with one layer of Gore RT7100™ PTFE moisture barrier material and two layers of 1.5oz apertured E-89™ thermal liner.

4.23.4 The outer most layer of the throat strap shall be outer shell material.

4.23.5 The innermost layer facing the wearer's body shall be outer shell fabric.

4.23.6 The throat strap shall be mounted to the outer shell collar 3.5" back from the collar facing and shall be not less than 11" long and 4" wide, contour shaped to be compatible with the SCBA facemask and secured in the stowed position with 2"x 2" FR loop on the right outside of the collar.

4.23.7 2" x 2" FR hook shall be sewn to the end of the throat strap and 2"x 3" corresponding FR loop shall be sewn to the outer shell material on the left side of the collar to provide maximum adjustment when wearing an SCBA breathing apparatus mask.

4.23.8 The throat strap will close from the right to the left.

#### 4.24 Coat Inner Yoke Reinforcement.

4.24.1 A layer of Semper Dri (3.0 oz./sq. yd. Teflon treated Chambray (NOMEX spun) face cloth quilted to araflo/E-89™ (Total weight +/- 6.0-6.8 oz./sq. yd.)) shall be positioned between the moisture barrier and thermal liner for extra thermal protection in a high heat and compression area of the coat.

4.24.2 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 7" down, over the tops of shoulders and down the front approximately 4" ending at the armhole.

#### 4.25 Coat Shoulder Reinforcement. A 4" wide area at the top of the shoulders extending 6" from the collar seam

shall be capped with outer shell material for abrasion resistance and thermal protection.

- 4.26 Coat Elbow Reinforcement. The elbow shall have an insert throughout all layers that shall provide a natural bend in the sleeve. This elbow shall include shaped pieces and darts to create free movement with few restrictions. The insert shall consist of two layers of outer shell material for abrasion resistance and thermal protection.
- 4.27 Coat Cuffs Reinforcement. The extended cuff of the sleeve shall be reinforced with a binding of black polymer coated aramid not less than 3" in total width for abrasion resistance and thermal protection. One leather tab with female snap fastener shall be set in the cuff to attach outer shell to liner.
- 4.28 Coat Wristlets. An internal wristlet shall consist of a 2-ply knit of 48% NOMEX/48% KEVLAR and 4% Spandex for superior recovery. Wristlet to be combination of natural and bronze colors producer dyed by DuPont, and with extremely durable Teflon water-resistant alloy not less than 8" extending completely over the palm with a thumbhole preventing the wristlet from sliding back. Wristlets shall be double stitched and bound to the moisture barrier/thermal liner providing extended thermal and slash protection.
- 4.29 Waterwells-Ever-Dri. A combination Semper Dri (3.0 oz./sq. yd. Teflon treated Chambray (NOMEX spun) face cloth quilted to araflo/E-89 (total weight +/- 6.0-6.8 oz./sq. yd.)) and one layer of breathable CROSSTECH Black (Type 2F) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end to form a sleeve well.
- 4.29.1 A 3/4" wide strip of FR loop fastener shall be sewn full circumference to the end of the thermal liner leader to help secure the combination liner to the outer shell.
- 4.29.2 A CROSSTECH Black (Type 2F) moisture barrier leader shall be sewn no more than 1" back from the combination liner sleeve end. This leader shall be approximately 4" in length and end with a gathering of 1" elastic.
- 4.29.3 This sleeve well shall prevent water and hazardous materials from entering the sleeve when arms are in a raised position.
- 4.29.4 The combination liner sleeve ends shall be inserted into the outer shell sleeve ends by means of lining up the snaps then attaching the FR loop fastener of the combination liner sleeve end with the FR hook fastener on the outer shell sleeve. This method of combination liner attachment shall prevent any gaps from occurring between the combination liner and sleeve well during a full range of motion.
- 4.29.5 The combination liner shall extend to within 1" of the sleeve end.
- 4.30 Coat Closure System.
- 4.30.1 Thermal Front Panel Construction: There shall be continuous thermal and moisture protection around the entire torso including the storm flap. To ensure this protection, as well as reduce potential for wicking moisture to inside of liner, both right and left inside front facings of the coat outer shell shall incorporate outer shell fabric and Gore RT7100 PTFE moisture barrier, extending from collar to hem.
- 4.30.2 Coat Front Closure Design: The complete outer shell coat front closure design shall consist of a FRONT CLOSURE SYSTEM completely protected by an OUTSIDE STORM FLAP which shall have its own, independent STORM FLAP CLOSURE SYSTEM.
- 4.30.3 Storm Flap: A storm flap measuring not less than 5" wide, nor less than 22" in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage. The inner lining of the storm flap shall be Gore RT7100 PTFE moisture barrier meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.
- 4.30.4 The storm flap shall be set on the outside of the right side of the coat opening. The flap shall open from left to right. NO EXCEPTION
- 4.30.5 Front/Storm Flap Closures: The front closure shall consist of four snap hooks shall be set with three leather reinforced rivets at the extreme right side of the coat front underneath the storm flap. Opposite of each snap hook, a corresponding D ring set to the underside of the leading edge of the left coat front

with two leather reinforced rivets. Three glove snaps shall be placed between the inside hook and D rings to assure proper closure.

4.30.6 The storm flap closure shall consist of double-stitched 2" wide loop on the inner side of the storm flap and double-stitched 2" wide hook attachment on the left coat front.

4.30.7 The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware.

4.31 Optional 2.5" Zipper Closure.

4.31.1 Thermal Front Panel Construction: There shall be continuous thermal and moisture protection around the entire torso including the storm flap. To ensure this protection, as well as reduce potential for wicking moisture to inside of liner, both right and left inside front facings of the coat outer shell shall incorporate outer shell fabric extending from collar to hem.

4.31.2 Coat Front Closure Design: The complete outer shell coat front closure design shall consist of a FRONT CLOSURE SYSTEM completely protected by an OUTSIDE STORM FLAP which shall have its own, independent STORM FLAP CLOSURE SYSTEM.

4.31.3 Storm Flap: A storm flap measuring not less than 2.5" wide, nor less than 22" in length shall be set on the outside of the right side of the coat opening for maximum thermal protection and clear drainage. The inner lining of the storm flap shall be Gore RT7100 PTFE moisture barrier meeting all requirements for moisture barriers sandwiched between two layers of outer shell fabric.

4.31.4 Front/Storm Flap Closures: The front closure shall consist of a thermoplastic zipper with a 1 3/4" polymer coated aramid tab added to the left bottom for fast closure and exit. The storm flap closure shall consist of double-stitched 1" wide hook and loop attachment with hook fastener sewn on the left front of the coat, and corresponding loop fastener sewn on the inner side of the outer storm flap. The hook and loop closure shall extend the full length of the outer storm flap eliminating all exposed frontal hardware.

4.32 Turn-Out Pocket. Two 9" wide x 8" deep full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back.

4.32.1 The pocket shall be set at the bottom of the coat hem and reflective trim shall be set on each pocket.

4.32.2 These shall have a 6" opening on the rear side of the bellow of the pocket.

4.32.3 Pockets and flaps shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength.

4.32.4 The entire inside of the pocket shall be lined with Kevlar twill material. Bar tacks shall be used to keep the inner liner from pulling out.

4.32.5 Drainage of moisture shall be provided by rustproof brass eyelets. Brass eyelets shall drain the entire pocket, shell, and interior liner.

4.32.6 Pocket flaps shall be 5"x10".

4.32.7 A hook and loop fastener closure system shall be set with 1.5"x9" loop fastener horizontally on full bellow pocket. 1.5"x6" loop fastener vertically on hand warmer pocket. 1.5"x9" hook fastener horizontally on flap.

4.33 Radio Pocket. One 3.5" wide x 9" deep full bellows radio pocket that expands by means of side and front gussets to a thickness of 2" in front and back shall be located on the left side of the chest.

4.33.1 Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with a minimum 42-stitch bar tack.

4.33.2 A brass eyelet shall provide drainage of moisture.

4.33.3 Pocket flap shall be 4.5"x 5".

4.33.4 Pocket shall be fully lined all 3 sides inside pocket with polycotton lining.

4.33.5 Pocket flap shall close to the pocket top using 1 piece of 1"x 2" loop on pocket horizontally and 1 piece of 1"x2" hook on flap vertically.

4.33.6 Pocket flap shall include a notch on the flap to accommodate an antenna.

4.33.7 The Radio Pocket shall be placed on either the right or left chest per the wearer's preference.

- 4.34 Mic Tab. There shall be a 1" X 3" triple layer self-fabric mic tab attached with bar tacks on each side located above radio pocket. Bar tacks shall be a minimum 42-stitch bar tack.
- 4.35 Flashlight Strap. There shall be a 1x10" two layer self fabric flashlight strap X-stitched to shell with one piece 1x3" hook on one end and one piece 1x3" loop on the opposite end located on the right chest above the chest trim. There shall be a .75" x 3.5" piece of leather shall be threaded through the 703 fastener & held by two rivets across the top located on the right chest with the bottom hook 5" above the flashlight strap. The flashlight strap shall be placed on the opposite side of the Radio Pocket.
- 4.36 Liner Inspection System. There shall be an 11" opening located on the coat liner system at the center right front of the liner. This opening will provide the ability to completely invert the coat liner to properly view the integrity of the entire liner system. There shall be one piece 1" x 4" FR loop sewn to the back side of the liner system with a piece of 1.5" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.
- 4.37 Reflective Trim Pattern.
- 4.37.1 All trim shall be sewn with four rows lockstitch 301, minimum six stitches/inch for most secure trim attachment.
  - 4.37.2 Ventilated Trim shall be of 3" Scotchlite II (triple trim) of red/orange perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can occur when moisture is heated and the trim compressed.
  - 4.37.3 Viz-a-V Pattern: One 3" strip shall be set full circumference at the bottom sweep of the outer shell; one 3" strip shall be set around each sleeve approximately 2" from bottom of sleeve cuff; one 3" strip shall be set full circumference at the chest; one 3" strip shall be set around each sleeve just above the elbow; two 3" V shaped vertical strips shall be set at an angle from hem trim to back chest trim of the coat.
  - 4.37.4 Reflective Trim set vertical down flap of fallen man harness, 4 rows lockstitch.
  - 4.37.5 Trim shall be of 3" Ventilated Scotchlite II (triple trim) of red/orange
  - 4.37.6 Ventilated Trim shall be of 3" Scotchlite II (triple trim) of red/orange perforated with 0.08mm holes (114 per square inch) to provide a conduit for the release of vapor that can occur when moisture is heated and the trim compressed.
- 4.38 Coat Shell Attachment. There shall be a 1" x 2" self-fabric strap with one end sewn to the coat shell & opposite end loose with one female non-logo snap. One male snap shall be centered on the liner at the bottom rear panel to align with the female snap.
- 4.39 Lettering Patches. There shall be one 5"x18" contoured 2-layer self-fabric one-line Letter Patch attached to hang from back hem.
- 4.39.1 There shall be 1.5x18" hook sewn to top edge of 5x18" patch and 1.5x18" loop sewn with white thread through the trim to coat back inside at hem.
  - 4.39.2 There shall be one male snap at each top corner of hanging letter patch (total of two male snaps) and two female logo snaps on the inside of the shell to align with the male snaps.
  - 4.39.3 There shall be 3" red/orange Scotchlite letters, spelling the firefighter last name, sewn on (2" letters will be used for longer names).
- 4.40 Drag Rescue Devise. The Fire Fighter Recovery Harness shall be constructed of a one and one-half inch wide KEVLAR strap that shall be installed between the outer shell and the thermal liner. This harness shall have a hand loop (16" in circumference) that exits the outer shell through a 2" polymer coated aramid-reinforced slot on the back of the coat just below the collar and is held in place by means of a piece of 1.5" x 2" hook on the strap and a piece of 1" x 2" loop attached to the outer shell. This strap is then secured under a 2.25" x 5.25" flap that is sewn in at the neck /collar area. Two pieces 1" x 2" loop shall be set vertically on shell to align with two

pieces of 1" x 2" hook set vertically to the underside of the flap. The harness is also held in proper alignment by means of a 2" x 2" piece of loop placed on the inside of the outer shell underneath the chest trim that corresponds to a piece of 1.5"x 2" hook located on the harness. Two 1" x 3.5" self-fabric straps with 1" x 2" hook on one end and 1" x 2" loop on other end shall be set to coat in the shoulder cap area to keep straps in proper position for use.

4.41 Pant Model/Design. PVFM Janesville V-Force Belted Pant

4.41.1 Pant Construction: The pant shall have a low-rise waist V-Fit design.

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

4.41.3 Waistband: The waist of the pants shall be reinforced on the inside with 1-ply of outer shell fabric material not less than 1.5" in width. The pant waist shall be contour shaped for better comfort and hemmed to provide strength with the independent waistband, which shall then be double stitched to the outer shell.

4.42 Pant Outer Shell Material. The outer shell shall be PBI Max constructed of +/- 7.0 oz./sq. yd. 70% "PBI Dominant" PBI/KEVLAR spun yarns/30% 600 denier KEVLAR filament in a twill weave with extremely durable FPE water resistant Teflon FPE alloy finish. Color shall be natural (gold).

4.43 Pant Liner and Moisture Barrier.

4.43.1 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 high filament yarns, with superior wicking characteristics, 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, and promote superior moisture management within the microclimate of the garment. The Glide face cloth shall be quilted to one layer E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 2.3 oz./sq. yd. and one layer of apertured (11-13 apertures/sq. inch) E-89 spun lace aramid (85% NOMEX/15% KEVLAR) weighing approximately 1.5 oz./sq. yd. both layers shall be treated with a Teflon finish to promote minimal moisture stored in the garment microclimate as well as promote rapid drying (Total weight +/- 7.3 oz./sq. yd.).

4.43.2 Moisture Barrier: CROSSTECH BLACK (Type 2F): NOMEX substrate laminated to a lightweight breathable, Teflon membrane; weighing 5.0 oz./sq. yd.

4.43.3 Moisture Barrier/Thermal Liner Construction: Design shall be compatible with the outer shell so that the liner does not buckle, pull, or otherwise restrict body motion. To deter the wicking of moisture up the thermal liner leg the bottom nine inches of each thermal leg shall be constructed of Semper Dri (3.0 oz./sq. yd. Teflon treated Chambray (NOMEX spun) face cloth quilted to one layer E-89 spun lace aramid 85% NOMEX/15% KEVLAR weighing approximately 2.3 oz./sq. yd. with a Teflon finish and one layer of apertured (11-13 apertures/sq. inch) E-89 spun lace aramid 85% NOMEX/15% KEVLAR weighing approximately 1.5 oz./sq. yd. with a Teflon finish. (Total weight +/- 6.8 oz./sq. yd.)). The waist of the moisture barrier/thermal liner shall be secured to the waist of the outer shell such that when donning the pant a leg may not be accidentally caught between the outer shell and its inner linings along the waist and between the legs of the pant.

4.43.4 Quilt 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. All moisture barrier seams shall be sealed as required by NFPA 1971. The moisture

barrier/thermal liner shall finish no more than 3" from the pant cuffs.

- 4.43.5 **Completely Removable:** The moisture barrier/thermal liner shall be completely detachable from the outer shell for ease of cleaning by using snaps and hook and loop. Nine evenly spaced snaps shall secure the liner to the integral waistband; two snaps shall be set in leather leg tabs at each leg end.
- 4.44 **Pant Fly Closure.** Storm Fly/Closure; The outer shell shall have a sewn on overlapping fly front running the full length of the fly on the left side. The flap shall not be less than 2.5" wide at the waistband.
- 4.44.1 The bottom of the fly shall be reinforced with a 42-stitch bartack.
- 4.44.2 The storm fly shall be held closed along its length by means of a hook and loop fastener closure 1.5" minimum width, along the leading edge for a distance of not less than 6" from the bottom of the fly closure to the waist area for proper alignment and secure closure.
- 4.44.3 The storm fly shall be outer shell material, lined with a 3.5" strip CROSSTECH (Type 2C) moisture barrier material to prevent wicking.
- 4.44.4 The storm fly shall be outer shell material, lined with a 4." strip of CROSSTECH (Type 2C) moisture barrier material.
- 4.44.5 **Thermal Fly Assembly:** A 3/4" wide x 9" long loop fastener shall be sewn to the moisture barrier/thermal liner to engage corresponding hook fastener on the underside of the outside storm fly and facing.
- 4.45 **Waist Band.** The waist of the pants shall be reinforced on the inside with one ply of outer shell fabric material not less than 1.5" in width. The pant waist shall be contour shaped for better comfort and hemmed to provide strength with the independent waistband, which shall then be double stitched to the outer shell.
- 4.46 **Take Up Straps.** A hook and D ring closure shall be used for quick one motion closing at the waist. The hook shall be 2.5" in length, made of a zinc non-ferrous metal alloy and weigh 1.2 oz. +/- 5%. It shall be securely fastened to the pant by means of a 5/8" wide, treated leather take up strap looped through the rear of the buckle and triple riveted to the pant shell with leather backed rivets. The D shall be made of a non-ferrous metal alloy 2" long x 1 1/16" wide and secured by two leather-backed rivets to the leading edge of fly flap.
- 4.47 **Turn-Out Pocket with 6 Tool Compartments.**
- 4.47.1 One 9" wide x 10" high, outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back shall be located on the right thigh.
- 4.47.2 Pockets shall be fully lined with KEVLAR twill on all 4 sides inside of pocket; two layers of KEVLAR lined self-fabric on shell inside pocket. First layer 6.5" high, second layer 4.5" high. Both layers stitched in 3" increments to create six tool compartments.
- 4.47.3 Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength.
- 4.47.4 Drainage of moisture is to be provided by brass eyelets.
- 4.47.5 Pocket flaps shall be 5" x 10"
- 4.47.6 A hook and loop fastener closure system shall be set with 2" x 9" loop fastener horizontally on the pocket and three pieces of 1.5" x 3" hook fastener vertically on the underside of the flap.
- 4.47.7 The pocket shall be placed on either the right or left side per the wear's choice.
- 4.48 **Turn-Out Pocket.**
- 4.48.1 One 9" wide x 10" deep outside full bellows pockets that expand by means of side and bottom gussets to a thickness of 2" in front and back shall be located on the right thigh.
- 4.48.2 Pockets shall be fully lined with KEVLAR twill on all 4 sides inside pocket.
- 4.48.3 Pocket and flap shall be set with stitch 301, seam Ssb-2 with the top and bottom pocket corners and top corners of flap reinforced with bar tacks for additional strength.
- 4.48.4 Drainage of moisture to be provided by brass eyelets.
- 4.48.5 Pocket flaps shall be 10" x 5".
- 4.48.6 A hook and loop fastener closure system shall be set with 2" x 9" loop fastener horizontally on the pocket and three pieces of 1" x 3" hook fastener vertically on the underside of the flap.

- 4.49 Belts and Harnesses. There shall be a removable two inch wide KEVLAR belt with 2" self-locking thermoplastic buckle with quick-release mechanism. There shall be three belt loops of two-layers of self fabric, 4" wide by 3.5" high shall be double stitched to pant shell and bartacked at all four corners. One loop at center back and one loop on each side.
- 4.50 Pant Knee Reinforcement. V-Fit Knee: The knee shall have an insert throughout all layers that shall provide a natural bend in the leg. This knee shall include cut outs, shaped pieces, and darts to create free movement with few restrictions.
- 4.50.1 The insert shall consist of black poly-coated aramid for abrasion resistance and thermal protection.
- 4.50.2 For added thermal protection, an additional layer of uninterrupted 1/8" thick, and fire retardant closed-cell foam shall be positioned between the moisture barrier and thermal liner.
- 4.50.3 For additional extended thermal protection, three layers of uninterrupted 1/8" thick, fire retardant closed-cell foam shall be also be positioned between the reinforcement layer and outer shell.
- 4.51 Pant Cuff Reinforcement.
- 4.51.1 The cuff area of the pant shall be reinforced with a binding of black polymer coated aramid not less than 2" in total width for greater strength, abrasion resistance, and thermal protection.
- 4.51.2 In addition a 3" x 3 1/2" piece of reinforcement material shall be sewn on the inseam area of the pant leg above the pant cuff and below the pant trim, in order to provide extra abrasion protection.
- 4.51.3 The material used on the kick shield shall match the material used on the pants cuffs.
- 4.52 Reflective Trim Placement. All trim shall be sewn with four rows lockstitch 301, minimum six stitches/inch for most secure trim attachment.
- 4.52.1 Ventilated Trim shall be of 3" Scotchlite II (triple trim) of red/orange perforated with 0.08 mm holes (114 per square inch) to provide a conduit for the release of vapor that can occur when moisture is heated and the trim compressed.
- 4.52.2 Pant trim shall be applied as follows: one strip set full circumference around the bottom of the cuff 3" from the bottom cuff.
- 4.53 Liner Inspection System. There shall be an opening located on the pant liner system to the right side of the waist separating the thermal barrier and moisture barrier, approximately 10" in length. This opening will provide the ability to completely invert the pant liner to properly view the integrity of the entire liner system. There shall be a piece of 1" x 3" FR loop sewn to the moisture barrier 3" over from beginning of opening and a corresponding piece of 1" x 3" FR hook sewn to the inside of the outer shell to ensure proper alignment when installing the liner system into the outer shell. This Liner Inspection System is completely hidden when the liner is properly installed into the outer shell.
- 4.54 Leg Tabs. Two grey leather leg tabs 3/4" wide x 1 3/4" long with female snaps shall be bartacked 2" up from bottom edge on inside of the pant cuff with one on the inseam and one on the out seam.
- 4.55 Suspender Tabs. Four 2" wide self material suspender tabs with 1.75x3" leather reinforcement shall be attached to waist with two on the front and two on the back. Each tab shall have two male and two female logo snaps. Each tab shall be reinforced with two bartacks on each tab.
- 4.56 Suspenders. A highly engineered \*42" red suspender designed for greater range of mobility and reduced stress allowing for four points of attachment, using self-fabric, leather-reinforced suspender tabs with snaps to a V-Force, traditional or contoured waist bunker pant.
- 4.56.1 Two \*\*11" front pull straps shall be constructed as follows: 2" wide elastic polyester webbing shall be fed through 2" metal loops and secured with a two-needle lock-stitch at one end. A black military finish steel double D ring shall be fed through the webbing. The other end of the webbing shall be fed through a 2" wide thermo-plastic D ring and secured with a two-needle lock stitch. The D ring shall function as a

pull strap for easily adjusting the suspenders for proper fit.

4.56.2 Two 1" shoulder straps shall be constructed as follows: 2" wide elastic polyester webbing shall be fed through the top half of the steel double D ring and secured with a two-needle lock-stitch. The top of each strap shall be secured to the V-shaped shoulder pad with two-needle lock stitch and two 42-stitch bartacks. Two \*\*\*8" back straps made of 2" wide elastic webbing shall be joined with two-needle lock-stitch at the bottom of each V-shaped shoulder pad.

4.56.3 Changes to provide 36" and 48" lengths

SR836X (36" length) - \*36" red, \*\*7" front pull straps, \*\*\*6" back straps

SR848X (48" length) - \*48" red, \*\*15" front pull straps, \*\*\*10" back straps

SR854X (54" length) - 54" red, \*\*20" front pull straps, \*\*\*11" back straps

4.56.4 Four 2" wide self-fabric suspender tabs with leather reinforcement, using 2 male and 2 female logo snaps for suspender attachment, shall be required on pants for use of these suspenders. Two self-fabric suspender tabs shall be attached to the back of the pant and to the front of the pant and reinforced with two bartacks each tab. Each self-fabric tab attached to the pants shall be fed through each 2" metal loop on the suspenders.

4.56.5 Shoulder pads shall be constructed of two layers of 1/8" thick, fire retardant closed-cell foam encapsulated in 7.5 oz. Black NOMEX. Each shoulder pad shall be 3" wide and 12" long ending in a 4" high back reinforcement pad. Each shoulder pad shall have an embroidered Lion Head Logo.

4.57 Lifetime Warranty. All products shall be warranted against defects in materials and workmanship for the useful life of the product.

## 5. **Specifications for Fire Helmets**

These specifications apply to helmets that will be used for structural fire fighting only. The fire helmets shall be LFH2120S American Classic Helmet with ESS FirePro 1971 Goggles. Proposed helmet shall be designed to interface with the wearing of a breathing apparatus (MSA, FireHawk M7).

### 5.1 Helmet Assembly.

5.1.1 The helmet shall be assembled with the safety, comfort, and protection of the firefighter in mind. For the purpose of reducing neck fatigue and/or strain, the weight of the helmet shall be equal to or less than 56oz. when weighed without eye protection and I.D. front. All other specified required components, accessories, and attachments must be in place for weight comparison.

5.1.2 The helmet shall have a liner consisting of an advanced lightweight thermoplastic and a ¼" layer of K-flex material for enhanced thermal protection in the event of extreme heat situations.

5.1.3 The uses of expandable foam impact caps are to meet NFPA requirements for the thermal, impact, and penetration resistance that a shell alone cannot meet. This adds unnecessary weight to the helmet increasing neck fatigue/strain. Separable Foam impact caps leave the firefighter at risk of severe injury should it become exposed during a fall or impact. The use of a foam impact cap shall not be accepted.

5.2 Shell. The shell shall be constructed with a high quality fiberglass composite, hand layered for even distribution of glass fibers to ensure adequate coverage and protection. The shell shall be molded with a low pressure, low heat molding process that enables the fiberglass composite and the resin to bond together without introducing brittleness or stress to product. Sheet molded compound processed shells shall not be accepted due to the random nature of glass, higher resin content, and softening effect when exposed to high heat. The shell shall be through color molded to extend the wear life of the helmet. For the purpose of maintenance and appearance purposes, painted/coated shells shall not be accepted.

5.3 Design. The shell shall be traditional in shape measuring 15.25" from front to back, 12" from side to side. The design includes a protective side brim with an upward angle for channeling water. The brim measurements shall be a minimum width of 1.25" on each side and front with a minimum of 2.75" at the rear. The Design shall require the dome to be kept low for better balance, and a lower center of gravity resulting in a reduction of neck fatigue. The dome shall be no more than 6" in height when measured from the top surface of the helmet brim.

- 5.4 Edge Trim. The welting shall consist of a self-locking, fire resistant material for ease of inspection or replacement in the field. The welt shall be black in color when assembled to black, red, yellow and white on white shells. Adhesives or glue shall not be accepted.
- 5.5 Suspension System. The suspension system shall have an adjustable six-point assembly designed to maintain the proper clearance between the wearer's head and the dome of the helmet. The entire suspension and headband assembly shall have easy removal, repair, and replacement capabilities by trained department personnel in the field. The ease of suspension and headband adjustment shall enable each individual fire fighter to tailor the ride and balance of the helmet to their specific needs for comfort and performance.
- 5.6 Suspension. The suspension shall consist of nylon webbing strategically positioned and sewn at six points. It is attached to the heat resistant thermoplastic liner, allowing optimum performance and fit. The Suspension shall have the Paul Conway patented center of gravity feature including a foam crown pad that adjusts for specialized fit.
- 5.7 Headband. The headband assembly shall be rear ratchet style and adjustable to fit head sizes from extra small (5.5) to extra-large (9.5). The headband shall be equipped with a center of gravity adjustment strap as well as four (4) tabs with three (3) height adjustments for maximum balance, fit and interface with SCBA masks. The ratchet assembly shall be designed to ensure the ratchet sets below the occipital lobe to cradle the head and eliminate gaps between head and headband causing pressure points, premature exhaustion, or helmet fluctuation. The ratchet assembly shall be capable of fore and aft adjustment and replacement by trained department personnel. All headband components contacting the head of the fire fighter including front, sides and ratchet band shall be padded and lined for increased comfort and headband durability.
- 5.8 D Ring and Bracket. The D ring hanger and bracket, composed of gold anodized aluminum, shall be attached to the rear brim of the helmet shell with a machine screw, lock washer, and acorn nut for ease of repair or replacement in the field. The D ring shall be a minimum of 1.25" long x 1.5" wide.
- 5.9 Strap Lock. Helmet shall have a strap lock that will compress under impact.
- 5.10 Chinstrap Assembly. The chinstrap assembly shall be provided with a postman's slide adjustment buckle. The strap assembly shall be provided with a T buckle that will allow separation of the strap assembly for easier donning over breathing apparatus face piece and quick release. These buckles shall mount into the strap so that no material comes in contact with the firefighter's face. The chinstrap shall include fire retardant hook and loop fasteners to store the loose end of the adjustment strap for added safety and better fit. The chinstrap assembly shall mount into the helmet shell assembly for ease of removal during repair or replacement by trained department personnel. Use of rivets for shell mounting the assembly shall not be acceptable. The chinstrap shall be constructed of flame resistant woven Nomex for increased comfort of the firefighter.
- 5.11 Eye Protection.
- 5.11.1 Shall be ESS Goggles: ESS Goggles shall consist of a heat and flame-resistant polycarbonate with large perimeter ventilation areas.
  - 5.11.2 The frames shall be designed for wear over most prescription eyewear.
  - 5.11.3 The lens shall be a high temp polycarbonate hard coated for scratch resistance inside and out.
  - 5.11.4 The lens shall be free of waves, ripples, and distortions for visibility and anti-fog coated inside and out.
  - 5.11.5 The mounting system shall be an under brim thermoplastic attachment secured through or the brim of the helmet.
  - 5.11.6 The strap shall be a two-strap attachment system with metal grommets for quick snapping on/off mounting posts.

- 5.12 Ear and Neck Protection. An ear and neck protection system shall be assembled to the helmet in accordance with the NFPA 1971 standard, current edition.
- 5.13 Earflaps. Earflaps shall be constructed of 7.5oz black Nomex material sewn to two layers of heavyweight FR flannel. This assembly shall provide thermal protection for a distance not less than 6.5" when measured from the center underside of the brim to the hem of the assembly. The earflaps shall be completely removable without complete disassembly of the helmet for ease of cleaning, decontamination, and replacement in the field. This assembly shall completely cover the ratchet adjustment mechanism during use. For maintenance and appearance purposes, lighter color materials shall not be acceptable.
- 5.14 Leather Front Mounting Hardware.
- 5.14.1 The helmet shall be provided with a carved style brass eagle for the upper portion of the leather front holder. The hollow design reduces helmet weight and serves as a first line shock absorber during an impact. The upper portion of the front holder shall be attached to the front rib of the shell with two (2)-threaded rods and four (4) acorn nuts that permit field replacement or repair. The use of rivets for attachment shall not be acceptable.
- 5.14.2 The helmet shall be provided with a glass reinforced thermoplastic bracket for the lower portion of the front holder. Two (2) screws shall be inserted into the slots on the rear of the bracket and pulled into the recess and held with retainer washers to maintain stability for front attachment. The lower portion of the front holder shall be attached to the lower front crown of the shell by two (2) blind rivets. The use of bolts, screws, or other fasteners that may contact the firefighter's head shall not be acceptable.
- 5.15 Reflective Trim. The helmet shall have eight (8) tetrahedrons of reflective trim, measuring 2" in height and 2" at the base, positioned approximately .75" above the base rib of the dome. This trim is in accordance with the NFPA 1971 standard, current edition. The helmet shall have 3M Scotchlite as standard trim.
- 5.16 Weight. Helmet with all components shall weigh no more than 56 ounces.
- 5.17 Color. Helmet shall be available in the following colors - red, white, black and yellow.
- 5.18 Helmet Accountability System. One self-adhesive strip of Velcro pile shall be fastened to the rear underside of the helmet brim for personnel accountability. The strip shall be 2-1/2" X 2".
- 5.19 Certifications. The helmet shall be tested and shall conform to the requirements of NFPA 1971, Protective Clothing for Structural Fire Fighting, most current edition. Third party certification of conformance with the standard shall be a part the vendor's submittal.
- 5.20 Parts. All accessories to the helmet shall be replaceable without special tools or equipment.
- 6. Specification for Fire Fighter Hoods**  
These specifications apply to only hoods used for fire fighting purposes only. The hoods shall be only Life Liners, Part#KL23.
- 6.1 Materials. Content: 49/49/2 Kermel/LenzingFR/Spandex. Weight of 8.4oz. per sq., 1x1 rib knit, 100% stretch and Navy Blue in color.
- 6.2 Head Design. Separate head with sewn on back and front bib. The back of the head ends at the nape of the upper neck. The back bib is sewn at this point.
- 6.3 Bib Design. A two-piece double layer yoke style bib is sewn to the head and forms a neck seam. The front and back bibs are joined at the shoulder to forma notched shoulder seam on either side of the head.

- 6.4 Face Opening. Face opening sewn with ½" elastic. Relaxed measurement of 5-5.5". Fully stretched measurement exceeds 15"
- 6.5 Construction. Head seams and bib seams sewn with flat lock stitch. Face opening elastic sewn to edge with three over lock stitch; turned under and sewn with a two-needle cover stitch. Binding one and half inch binding sewn to hem through folder with a three thread cover stitch to create a ½" finished bound hem. Thread 100% Nomex.
- 6.6 Labels. All four label edges sewn to the hood.
- 6.7 Packaging. Each hood is to be individually polybagged with required end user information.

## 7. **Specification for Fire Fighter Gloves**

These specifications apply only to gloves used for firefighting purposes only. The gloves shall only be FireGuard Lion Commander 927 Gauntlet Fire Glove LPG927BL Commander Glove .

- 7.1 Outer Shell. Side split cowhide leather - enhanced "eversoft" double-chrome tannage for thermal resistance, water resistance, and to stay soft and pliable when air-dried; 3 to 4 oz. thickness; color is ocean (dark) blue.
- 7.2 Combination Moisture Barrier / Thermal Liner. W.L. Gore Crosstech® Direct Grip® Glove Insert.
- 7.3 Thermal Insulation. (back of thumb and back of hand from finger crotches to wrist only): W.L. Gore RT7100 thermal/moisture barrier material.
- 7.4 Gauntlet. Leather, same as outer shell; 1.25" long; unlined; hemmed.
- 7.5 Back Elastic. 7/16" wide elastic braid; shirr-sewn across inside back wrist to provide snugness.
- 7.6 Back Logo. "LION Commander" dry heat transfer logo is applied to the back of each glove; color is metallic silver.
- 7.7 Design and Construction.
- 7.7.1 Design: Two-layer glove, with leather shell and combination moisture barrier/thermal lining. There is an additional thermal insulation layer between the shell and moisture barrier layers on the back of the thumb and back of the hand from the finger crotches to the wrist. Glove is cut on the gunn pattern, with straight thumb and four-finger back. Each layer is individually graded per size.
- 7.7.2 Construction: Entire glove utilizes 2-thread lockstitch construction, minimum of 7 stitches per inch, with the following exceptions - the elastic-to-back seam is sewn flat with a 2-thread lockstitch zig-zag pattern; and the edge of the wristlet is sewn with a 3-thread overcast 1/8" serge seam, before attachment to the glove, to prevent raveling of the wristlet fibers. All seams not secured in other seams or crossed by another row of stitching shall be securely backstitched. The combination moisture barrier/thermal liner Crosstech® Direct Grip® Glove Insert shall be permanently attached inside the shell at each of the five fingertips, by proprietary means, to prevent liner pullouts. The layers are stitched together around the wrist opening, with labels and hanger loop inserted in the seam. A wristlet or gauntlet is then sewn around the wrist opening to finish the glove.
- 7.7.3 Sizes: XXS (extra-extra-small), XS (extra-small), S (small), M (medium), L (large), XL (extra-large), and XXL (extra-extra-large), as required by the standard. Sizes 3XL (extra-extra-extra-large) and 4XL (extra-extra-extra-extra-large) are also offered.

## 8. **Specifications for Leather Firefighting Boots**

These specifications apply to boots that are used for structural fire fighting only. The leather fire fighting boots are to be Lion L22013 Marshall Boot 14" Structural Pull On.

- 8.1 General Specifications. Lion 14" Structural Pull on. The boot shall be a 14" high black, pull-on style, top grain, water proof FR leather boot with Vibram Fire and Ice Sole, steel toe; rubber toe cap, Lenzi midsole, puncture resistant instep, Goodyear Welt sole construction, thermoplastic heel counter, and pull-on straps and the ability to quickly don and doff. The boots shall meet or exceed the current NFPA 1971, 2013 Standard on Protective Ensemble for Structural Fire Fighting.
- 8.2 Upper Leather. The upper leather shall be 5-5.5oz. black, US tanned, water proof, and breathable leather.
- 8.3 Pull on Loops and Calf Cushioning. Straps shall be one 1" wide Nomex pull-on strap shall be securely fastened to the outer leather on each side of the boot. The top of the boot upper shall be soft Nappa leather with a padded collar for better calf fit reducing chafing and accommodate a wide range of sizes.
- 8.4 Safety Toe. The built-in steel toe shall be a tempered steel, wide flange cap to allow for a wide fitting toe box. Comfort shall be further ensured by the use of a rubber lip, which shall pad the foot and protect the moisture barrier against the edge of the steel toe.
- 8.5 Puncture Resistant Plate. The puncture resistant plate shall be a Lenzi constructed of 4 layers of puncture resistant material to provide enhanced puncture protection.
- 8.6 Outer Sole. The outer sole shall be Vibram Fire and Ice Sole to provide superior traction and durable performance at extreme temperatures. The outer sole tread shall be self-cleaning, non-marking and slip-resistant. The outer sole shall be Vibram rubber and shall be attached using Goodyear storm welt for ease of replacement. The sole construction shall provide for good lateral stability. Cork fill shall be used for added insulation and cushioning.
- 8.7 Heel Counter. The thermoplastic shape heel counter shall be individually molded per size for custom fit, to provide greater flexibility, comfort, and heel stability.
- 8.8 Moisture Barrier/Liner. The moisture barrier shall be breathable, waterproof, chemical and viral penetration resistant CROSSTECH Footwear fabric. The CROSSTECH membrane shall be laminated to the quilted Cambrelle polyfelt insulation, which is abrasion resistant, absorbent and breathable.
- 8.9 Ankle Support System. The lock fit ankle support system shall provide integrated anatomical ankle padding to ensure the foot is securely positioned in the boot. The lock fit ankle shall also provide support to the entire ankle area for increased wear comfort.
- 8.10 Heel Strip. A slip resistant, breathable, micro fiber heel strip shall be provided up the center back of the boot to enhance foot stability and minimize heel lifting when walking which also reduces wear to the Cambrelle fabric lining.
- 8.11 Rubber Toe Cap. The toe shall be further reinforced by a Vibram nitrile rubber toe covering to protect the boot from abrasion and scuff protection.
- 8.12 Arch Protection. The footwear shall include an arch protection system to provide additional multi-directional puncture protection to the arch of the foot. The arch protection system shall be made of ballistic grade composite material.
- 8.13 Midsole. A cork midsole shall be provided between the sole and upper for added thermal insulation, flexibility and cushioning.
- 8.14 Shank and Inner Sole. The shank shall be made from double ridged steel to support arches. The removable insole shall be made from OrthoLite shock absorbing foam and shall be breathable, anti-odor and anti-fungal.

The OrthoLite open cell structure shall allow air to flow through the material and moisture to evaporate, promoting a breathable, dry surface.

- 8.15 Tibia Protection. Tibia protection padding shall be provided in the front shin area of the boot to provide cushioning while standing on a ladder.
- 8.16 Reflective Strip. There shall be a silver reflective strip at the ankle of the boot extending from the front to the back of the boot on each side to enhance visibility in low light conditions.
- 8.17 Construction. CROSSTECH Footwear Fabric shall be laminated to a Cambrelle inner lining. The lining shall be sewn in three pieces: left side, right side, and toe and all seams shall be butt stitched and seam-sealed with CROSSTECH tape. The boot upper shall be reinforced at the back with a microfiber anti-slip strip. Additional cushioning shall be adhered to the boot so as to be positioned over each anklebone and along the top the foot; this cushioning shall be ergonomically formed. The upper pieces of the boot, exclusive of the toe cap, shall be sewn using Kevlar thread and double needle lockstitch. The toe cap is attached by means of adhesive. The outer sole shall be secured to the boot by means of a high temperature resistant adhesive.
- 8.18 Sizes. Men's full and half sizes 5-15, with narrow, medium and wide widths. Women's full and half sizes 5-10, with narrow, medium and wide widths.

## **9. Insulated Rubber Fire Fighting Boots**

These specifications apply to only boots used for fire fighting purposes only. The boots shall be model # 5128 Ranger 16" structural pull on bunker boot or equivalent.

- 9.1 Materials. The materials shall be rubber formulation that is fire resistant, which resists cracking and oxidation. The lining shall be Kevlar and Nomex.
- 9.2 Safety Features. The boot shall have steel toe that meets ANSI Z41 1999-Section 1 and Impact compression. Will have inside shin protector, heavy trac tread design for the sole, and one piece-flanged steel for the midsole. The boot shall also be NFPA 1971, 2007 compliant for the most current version.
- 9.3 Sizes. Shall have whole and half sizes ranging from 5-16, in narrow, medium, and wide.

**APPENDIX A**  
**Fire Protective Gear**

Item	Brand	Model	Unit Price	Est Quantity	Total Price	Delivery (calendar days)
Fire Protective Coats			\$ _____	100	\$ _____	_____
Fire Protective Trousers			\$ _____	100	\$ _____	_____
Helmets			\$ _____	50	\$ _____	_____
Firefighting Hoods			\$ _____	150	\$ _____	_____
Firefighting Gloves			\$ _____	100	\$ _____	_____
Leather Firefighting Boots			\$ _____	50	\$ _____	_____
Rubber Firefighting Boots			\$ _____	50	\$ _____	_____
<b>Total Bid</b>					\$ _____	

Helmet parts, discount off list price \_\_\_\_\_ %

\_\_\_\_\_  
Person, Firm or Corporation

\_\_\_\_\_  
Authorized Signature and Title