



SYSTECH FIRE PROTECTION LLC

WWW.SYSTECHFIRE.COM

17041 Merchants Drive - Ruther Glen, Virginia 22546 – direct telephone 703-477-5928 – email dale.wheeler@systechfire.com

August 27, 2018

By Overnight UPS

Stephanie L. Gale, Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

RE: Solicitation Number ADJ900000008 – Fire Suppression System Design – FMS#4 Camp Dawson

Systech Fire Protection LLC, (SFP), a firm specializing in fire protection engineering, is pleased to transmit our submittal on the captioned solicitation.

SFP's submittal includes the following:

- Expression of Interest Technical Document
- Forms signed and notarized as required

Thank you for your consideration of SFP. We look forward to hearing from you.

Regards,

Dale R. Wheeler

Dale R. Wheeler
Principal

RECEIVED

2018 AUG 29 AM 10:31

WV PURCHASING
DIVISION

EXPRESSION OF INTEREST

(Due AUG 30, 2018)

**FIRE SUPPRESSION SYSTEM DESIGN
FMS#4 CAMP DAWSON**

**FIELD MAINTENANCE SHOP
CAMP DAWSON
KINGWOOD, WV**

Submitted to:

**Department of Administration
Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130**

Submitted by



SYSTECH FIRE PROTECTION LLC
W W W . S Y S T E C H F I R E . C O M

17041 Merchants Drive, Ruther Glen, VA 22546
Tel: 703-477-5928 Email: dale.wheeler@systechfire.co

1. INTRODUCTION

Systech Fire Protection LLC (SFP) expresses interest in performing the project "Fire Suppression System Design FMS#4" at Camp Dawson.

SFP is a small-business engineering firm specializing in fire protection engineering and has been in business since 2007. All previous work by SFP in West Virginia has been for Federal contracts. If selected, SFP will process applications for foreign corporation in West Virginia.

Contact information for SFP is as follows:

Principal, Project Manager and Chief Fire Protection Engineer:
Dale R. Wheeler, P.E.

Address: 17041 Merchants Drive, Ruther Glen, VA 22546

Telephone: 703-477-5928

FEIN: 74-3214286

DUNS: 800766789

SAM Registration: Current

WVOASIS Vendor: VS0000015812

All staff at SFP have significant experience and knowledge with respect to all codes and criteria involved with this project including the State Building and Fire Codes, NFPA standards, ANSI, ASTM, and UL requirements.

SFP's organization is led by Principal Dale R. Wheeler, PE. All SFP staff report directly to Mr. Wheeler. SFP employs 3 full time engineering staff plus 3 part time engineering staff, supported by AutoCAD Operators.

2. QUALIFICATIONS, EXPERIENCE AND PAST PERFORMANCE

Key staff is qualified and experienced fire protection engineers and fire protection technicians with up to 44 years professional experience.

- SFP's fire protection staff have worked together on many projects the same or similar to this project.
- SFP is a small business with staff that includes fire protection engineers.
- Principal and Chief Fire Protection Engineer Dale Wheeler is a registered Professional Engineer in 26 states including West Virginia.
- SFP has extensive experience with studies, design, and construction period services for special fire suppression systems, including in National Guard facilities and other military installations.

Key Staff

Principal, Project Manager and Chief Fire Protection Engineer:
Dale R. Wheeler, P.E. - Mr. Wheeler holds a Bachelor of Science Degree from the Illinois Institute of Technology in Fire Protection and Safety Engineering and has 44 years of experience in fire protection engineering. Mr. Wheeler is a registered Professional Engineer in 26 states including West Virginia. Mr. Wheeler has additional experience in teaching fire protection subjects at Northern Virginia Community College, as well as publications and speaking engagements with regard to fire protection topics. Mr. Wheeler is knowledgeable with regard to fire protection systems, the applicable codes and criteria and is a full member of the National Fire Protection Association, meeting NFPA's criteria as a fire protection engineer. Mr. Wheeler holds Professional Member Grade in the Society of Fire Protection Engineers. Mr. Wheeler will perform all project management duties, coordination and communication with Client staff, supervision of fire protection, and Quality Assurance.

A copy of Mr. Wheeler's degree and West Virginia PE registration follow:



This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2018

Key Staff Continued

Project Engineer: Thomas Slane, P.E. – Mr. Slane holds a Bachelor of Science Degree in Fire Protection Engineering from the University of Maryland and has 11 years' experience in fire protection engineering. Mr. Slane is a registered Professional Engineer in 3 states. Mr. Slane is experienced in fire protection systems and will perform engineering calculations for this project.

Fire Protection Technician: Joseph Wheeler – Mr. Wheeler has been working in fire protection system analysis and design for 26 years and has specific fire protection system training from The University of Maryland and Northern Virginia Community College. Mr. Wheeler also brings experience in work in the fire protection industry as an installation contractor providing unique knowledge of constructability of system designs.

The staff above will be supported by additional fire protection staff as needed as well as AutoCAD Operators.

SFP staff has the requisite knowledge, experience, and training to properly address all related fire protection system subjects. No subcontractors are needed or proposed by SFP.



SFP has significant experience with fire protection projects in a wide variety of occupancies, including special fire suppression systems, such as the dry chemical system indicated in this solicitation. Project examples follow:

Project #1 – Indefinite Delivery Fire Protection Engineering Contract, Atlantic Division NAVFAC

Location: Norfolk, VA
Owner: Atlantic Division, Naval Facilities Engineering
Personnel Assigned: Dale Wheeler, P.E. – Project Manager, Chief Fire Protection Engineer, QA Manager
Tom Slane – Fire Protection Engineer
Joseph Wheeler – Fire Protection Technician, Designer



(1) Automatic fire sprinklers, dry chemical fire suppression, and fire detection and alarm systems for existing Mine Assembly Building No. 908, Naval Air Station, Sigonella, Italy. Project includes design of new reinforced pump house and water storage tank. Pumping station to include new jockey pump, diesel fire pump; fuel oil tank. Fire sprinklers will be wet type. Alarm system consists of manual stations and automatic heat detections connected to control panel. Road improvements. Project initiated to increase limits of

explosive storage/overnight storage. Design in compliance with MILHDBK-1008A and NFPA criteria. Project performed in metric units.

2) Aqueous film forming foam discharge study for two Naval Air Stations, for the Atlantic Division Naval Facilities Engineering Command. The two stations involved are Naval Air Station Norfolk, Virginia, and Oceana Naval Air Station, Virginia Beach, Virginia. The study includes eight aircraft hangars protecting both fixed wing and rotary wing aircraft. The AFFF systems encountered included deluge systems with overhead discharge and oscillating nozzles. Report addressed conclusions as to reasons for discharges, concepts for improvements to remedy unwanted discharges and facility improvements to collect and remove AFFF agent in the event of a discharge to meet environmental requirements. Report addressed conclusions as to reasons for discharges, concepts for improvements to remedy unwanted discharges and facility improvements to collect and remove AFFF agent in the event of a discharge to meet environmental requirements. Services include survey, report of findings and recommendations with cost estimates.

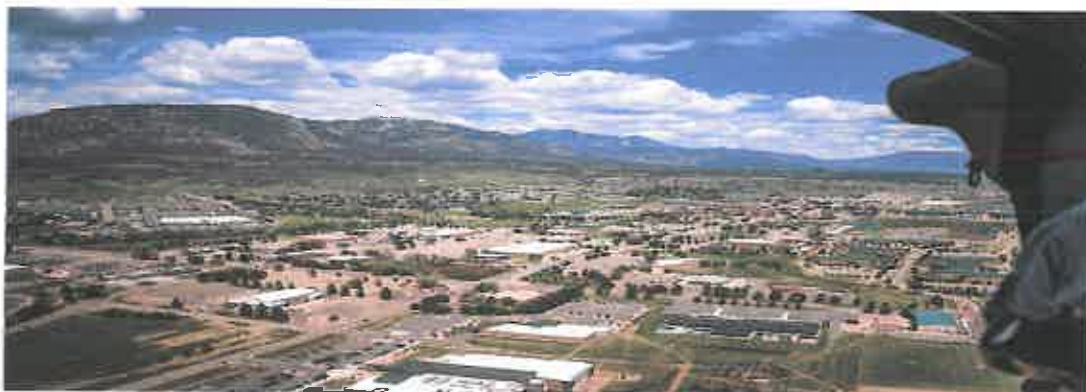


Services on this project included Detailed Survey of Equipment and Condition, Document Review, Personnel Interviews, Analysis and Recommendations, Cost Estimates, Preparation of Step II Documentation.

Project #2 - Fire Alarm System Study

Location: Fort Carson, CO
Owner: United States Army
Personnel Assigned: Dale Wheeler, P.E. – Project Manager, Chief Fire Protection Engineer, QA Manager
Joseph Wheeler – Fire Protection Technician, Designer

Field investigation, feasibility and condition study, recommendations and cost estimates for fire alarm systems in 45 buildings at Fort Carson, Colorado. Study addresses condition, comparison to code and criteria requirements, base-wide alarm transmission, compatibility with Mass Notification systems.



Project #3 – Fire Protection Engineering Indefinite Quantity Contract

Location: Jacksonville, FL
Owner: Florida State College at Jacksonville (FSCJ)
Personnel Assigned: Dale Wheeler, P.E. – Project Manager, Chief Fire Protection Engineer, QA Manager
Thomas Slane, P.E. – Project Engineer
Joseph Wheeler – Fire Protection Technician, Designer

Indefinite Quantity Contract for Fire Protection Engineering. Base contract for 2 years. Owner has renewed contract for 7 additional two-year periods.

Services include field investigation, development of alternatives, cost estimates, detailed drawings, hydraulic calculations, specifications, and construction period services. Professional tasks have included fire alarm system design, fire sprinkler system design, clean-agent fire suppression systems design, mitigation of microbiologically influenced corrosion (MIC), design of repairs to systems, fire safety surveys, studies, development of solicitation documents to hire inspection and maintenance contractor.



Project #4 - Fire Alarm System Study and Design

Location: San Diego, CA
Owner: Space and Naval Warfare (SPAWAR) Research Center Pacific
Personnel Assigned: Dale Wheeler, P.E. – Project Manager, Chief Fire Protection Engineer, QA Manager
Joseph Wheeler – Fire Protection Technician, Designer

Field investigation, feasibility and condition study for 4 buildings at SPAWAR San Diego, CA. Buildings comprise 450,000 square feet and house offices, industrial and storage occupancies. Prepare cost estimate, bid drawings, and specifications. Project addresses removal of existing fire alarm systems, replacement with new fire alarm and Mass Notification systems.



Project #5 - High Expansion Foam Fire Suppression Hangar 885

Location: Rickenbacker International Airport, Ohio
Owner: Rickenbacker Ohio Air National Guard
Personnel Assigned: Dale Wheeler, P.E. – Project Manager, Chief Fire Protection Engineer, QA Manager
Joseph Wheeler – Fire Protection Technician, Designer

Systech had previously completed a design of an AFFF system to protect a maintenance hangar housing two KC-135 refueling planes for the 121st Air Refueling Wing based at the Rickenbacker Air National Guard Base in Columbus, Ohio. Since completion of the design, updated design criteria have been issued. ETL 01-2 now requires instead of AFFF low-level high-expansion foam (HEF) protection of hangars. Systech was tasked with designing the High Expansion Foam fire suppression system. The building is approximately 80,000 square feet with approximately 40,000 square feet of hangar area. Additionally, Systech was tasked with the design of new means of egress from a mezzanine that had been converted to an occupied space. The design of the additional method of egress from the mezzanine had to account for existing building conditions, use, and all code requirements.



With respect to past performance, every project above was completed on time, within budget, and to the Client's satisfaction with technical excellence. The Client contact is still available as a reference for only some of the above projects. SFP offers the following references:

Project: Fire Protection Engineering Indefinite Quantity Contract
Location: Jacksonville, FL
Owner: Florida State College at Jacksonville (FSCJ)
Reference: Michael Pindell, Fire Safety Manager
Tel 904.632.3110
Email mpindell@fscj.edu

Project: Fire Alarm System Study and Design
Location: San Diego, CA
Owner: Space and Naval Warfare (SPAWAR) Research Center Pacific
Reference: Gabe Haduch, P.E., Lead Facilities Engineer
Tel 619.553.3842
Email gabe.haduch@navy.mil

3. GOALS AND OBJECTIVES – ANTICIPATED CONCEPTS AND METHODS OF APPROACH

SFP has unique design and problem-solving abilities to apply to the project due to specialization in fire protection engineering. Our approach to this project is as follows.

Develop Project Objectives

SFP believes that the key to success in a project such as this is an early in-depth review of project needs and constraints. We will review any documentation the Client may have relative to why the project is being undertaken, such as what issues or problems are being addressed, what options have already been considered, what staffing or funding issues may be encountered. We will conduct field investigation to understand existing conditions and available areas to be considered for solutions. Code requirements will be reviewed. SFP will prepare a set of project objectives to be shared and review by all involved parties. The final objectives will be used as a guide for all subsequent activity.

Develop Technical Options

With the information gained from discussions with Client staff, referencing code requirements, and from field investigation, SFP will review available technical approaches and ascertain if there are any additional viable technical options to address all issues.

With respect to possible technical alternatives, although SFP does not yet have all the necessary information, based on our understanding so far, SFP believes there may be an alternate that should be considered.

SFP infers from the project solicitation that a complete fire suppression system for FMS#4 is desired but that water supply may be difficult or unattainable, resulting in the request that a dry chemical fire suppression be designed and installed. That approach is viable. However, an alternative



fire suppression system particularly a carbon dioxide fire suppression system may prove to be a better choice. The advantages that a carbon dioxide system may offer include:

- ***Lower initial installation cost – particularly the cost of multiple dry chemical tanks and suppression agent are likely to be higher than a single low-pressure carbon dioxide tank and suppression agent.***
- ***Dramatically less clean-up in the event of a discharge – dry chemical suppression agent would be discharged into all areas and require extensive labor and time to clean up – carbon dioxide requires no clean-up after a discharge.***

SFP is prepared to design a dry chemical system if that is desired and/or found to be the best solution but also proposes to study the above further. Since a fire detection and alarm interface will be required, SFP will examine the existing system if any and determine if it is suitable for the new fire suppression system or if a new fire detection and alarm system is needed.



4. PROJECT MANAGEMENT, QUALITY AND COST CONTROL

SFP will assign Principal and Chief Fire Protection Engineer, Mr. Dale Wheeler, as Project Manager. Mr. Wheeler brings 44 years' experience in fire protection engineering to the project and has the authority within SFP to add resources as needed to meet Client needs.

Systech Fire Protection uses a three-tiered quality control plan to ensure technically accurate and coordinated studies, plans, specifications, and cost estimates throughout the duration of the project.

The first level of quality control involves early technical review of project concepts and approach. The quality control/design review manager is assigned to that task. The QC manager reviews all project documents at a draft level, providing guidance, and then recommends corrective measures as necessary.

The second level of quality control encourages communication and coordination through weekly team meetings. These meetings are informal and permit review of technical and administrative project issues.

The third level is frequent and clear communication with the client. Again, starting at the earliest possible point, project approaches and analyses are shared with the client. This allows for conceptual agreement, keeping the project team on track and on time.

SFP's Chief Fire Protection Engineer, Dale R. Wheeler, will be responsible for Quality Control. As a Principal of the firm, Mr. Wheeler has the authority to make any necessary decision to ensure the highest quality possible.

CONCLUSION

SFP has not only the requisite experience and knowledge for this project but also has unique qualifications that would be extremely valuable to the Project. Our team has worked together on many similar projects with great success and high quality. The State of West Virginia would be a very important Client to SFP and accordingly can expect close attention from all team members including our Principal. SFP is ready to perform the assignment efficiently, with technical excellence, on time, and within budget.

Respectfully Submitted:

Dale R. Wheeler

Dale R. Wheeler, P.E.

Principal



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Name, Title)
Dale R. Wheeler, Principal

(Printed Name and Title)
17041 Merchants Drive Ruther Glen, VA 22546

(Address)
703-477-5928 (no fax)

(Phone Number) / (Fax Number)
dale.wheeler@systechfire.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Systemch Fire Protection LLC

(Company)



(Authorized Signature) (Representative Name, Title)

Dale R. Wheeler Principal

(Printed Name and Title of Authorized Representative)

AUG 27 2018

(Date)

703-477-5928 (no fax)

(Phone Number) (Fax Number)

**ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:**

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

NONE

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Systech Fire Protection LLC

Company



Authorized Signature

AUG 27 2018

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: System Fire Protection LLC

Authorized Signature: [Signature] Date: AUG 27 2018

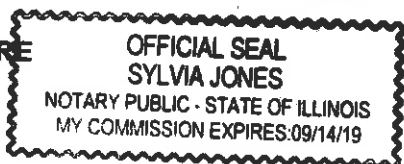
State of IL

County of Cook, to-wit:

Taken, subscribed, and sworn to before me this 27 day of August, 2018.

My Commission expires 9-14-19, 2019.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$100,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: Systech Fire Protection LLC **Address:** 17041 Merchants Drive

Ruther Glen, VA 22546

Authorized Agent: Dale R. Wheeler **Address:** same

Contract Number: _____ **Contract Description:** Fire Suppression Design FMS#4

Governmental agency awarding contract: Department of Administration Purchasing Division

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

Dale Wheeler owns 100% of Systech Fire Protection LLC

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: Dale R. Wheeler Date Signed: 8/27/2018

Notary Verification

State of IL, County of Cook

I, Dale R. Wheeler, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 27 day of August, 2018.

Sylvia Jones
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

