DOCUMENT REVIEW/APPROVAL

Document: F-SOW-G-00021 **Revision:** 0

Title: Statement of Work to Perform Sitewide Fire System Installation(s) at the Savannah River Site

DOCUMENT REVIEW/APPROVAL

Classification Reviewer: N/A

Date: 01/09/2025

DOCUMENT REVIEW/APPROVAL

Document: F-SOW-G-00021 **Revision:** 0

Title: Statement of Work to Perform Sitewide Fire System Installation(s) at the Savannah River Site

Document Type SOW **Functional Classification:** GS

Description: This Statement of Work will allow for sitewide Fire System Installation(s) at the Savannah River Site.

Amendments Incorporated:

N/A

References:

N/A

Facility Code(s): INF/SI,INF

Originator: SEALE, CALEB **Date:** 01/06/2025

Reviewers

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1. N/A	N/A	01/09/2025

VERIFIER/CHECKER

Verifier/Checker: MCGAHEE, PHILIP W. III **Date:** 01/09/2025

Verification/Check Methods Document Review

DESIGN AUTHORITY

Design Authority: SEALE, CALEB **USQS Required:** No

Date: 01/09/2025 **TRP Number:** N/A

Amendment Document Types

Is physical work required?: N/A

Documents Requiring Change:
N/A

Other documents tracked per procedure:

N/A

ECF Category: N/A **PA-ECF?:** N/A

1. Specification No F-SOW-G-00021 Statement of Work to Perform Sitewide Fire System Installation(s) at the Savannah River Site			2. Revision 0	3. Page 1 of 1
4. Date	5. Revision No.	6. Paragraph No.	7. Description of Changes	
1/6/25	0	N/A	Initial Issue for Procurement	

TABLE OF CONTENTS

1.0 SCOPE

1.1 General Description of the Service

1.1.1 Summary

1.1.1.1 The subcontractor shall provide all equipment, material, labor, and supervision for installation of fire systems to include but not limited to Fire Alarm Systems, Water-Based Systems, Special Hazards Systems, electrical, telecommunications, electrical fire protection, and underground at the Savannah River Site (SRS). The job site locations will vary across the site.

1.1.2 Background

1.1.2.1 Not Used

2.0 REFERENCES

2.1 Definitions

2.1.1 Acronyms

AHA	Assisted Hazard Analysis
ANSI	American National Standards Institute
ASME	American Society Mechanical Engineering
AWS	American Welding Society
BICSI	Building Industry Consulting Services International BOM - Bill of Material
BOM	Bill of Material(s)
CFR	Code of Federal Regulations
FR	Fire Resistance
DOE	Department of Energy
IEEE	Institute of Electrical and Electronics Engineers
NEC	National Electrical Code
NESC	National Electrical Safety Code
NFPA	National Fire Protection Association
NICET	National Institute for Certification in Engineering Technologies
OSHA	Occupational Safety & Health Administration
RBA	Radiological Buffer Area
RFI	Request for Information
RWP	Radiological Work Permit
SCDHEC	South Carolina Department of Health and Environmental Control
SRNS	Savannah River Nuclear Solutions
SRS	Savannah River Site
STR	Subcontract Technical Representative
TOA	Task Order Agreement (also applies to Task Order [TO])
UL	Underwriters Laboratories

2.1.2 Terms

2.1.2.1 Consumables: Any items that do not remain as part of the completed installation. (I.e. Drill Bits, Hacksaw Blades, Work Gloves, Cutting Oil, Safety Glasses, Rags, etc.)

2.1.2.2 Hold Point: A designated verification beyond which work does not proceed until verification is performed and documented by a Supplier Technical Representative.

2.1.2.3 Verification: The act of reviewing, inspecting, testing, checking, auditing, or otherwise determining and documenting whether items, processes, services, or documents conform to specified requirements.

2.1.3 **Codes / Standards**

2.1.3.1 Task Order(s) will specify codes and editions invoked.

2.1.4 Generally Required Codes / Standards

2.1.4.1 American National Standards Institute/ Institute of Electrical and Electronics Engineers (ANSI/IEEE)

A. C-2, National Electrical Safety Code

2.1.4.2 Factory Mutual Research Corporation

2.1.4.3 National Electrical Code (NEC)

2.1.4.4 National Fire Protection Association (NFPA)

A. 13
B. 70
C. 70E
D. 72
E. 90A

2.1.4.5 American Welding Society

A. D1.1 Structural Welding Code, Steel

2.1.4.6 WSRC-TM-95-1 Standard 05057, Rev. 1 – Control of Welding

2.1.4.7 WSRC-TM-95-1 Standard 07270, Rev. 12 – Criteria for the Design, Installation, and Inspection of Firestop Systems, Cementitious Seals, Duct Wraps, and Conduit Seals

2.1.4.8 WSRC-TM-95-1 Standard 01120, SRS Fire Protection Desing Criteria

2.1.4.9 WSRC Specification No. #W-SPP-G-00013, Rev. 0 – SRS Subcontractor Welding Performance

2.1.4.10 American Society Mechanical Engineering

A. Section 1X – Welding and Brazing Qualifications

2.1.4.11 Lucent Technologies (Technical Information Practices, 900-OSP Engineering, 600-OSP Construction and 400-OSP Installation/ Maintenance)

2.1.4.12 WSRC Manual E7, Procedure 1.53, “Commercial Drawings (U)” WSRC Manual E7, Procedure 1.57, “Redlines (U)”

2.1.4.13 WSRC-TM-95-1, Engineering Standard No.16055, “Telecommunications,” (In Lieu of Section 3.3, Exceptions/Deviations will be specified by the Design Authority).

2.1.4.14 WSRC-TM-95-58, Engineering Standard No. 01110, Civil Site Design Criteria. Engineering Standard No. 03010, “Coring, Chipping, and Drilling In Concrete”

2.1.4.15 WSRC-IM-95-58, Engineering Guide 03251-G, “Concrete Anchors”

2.1.4.16 WSRC-IM-95-58, Engineering Guide 03252-G, “Installation and Testing of Concrete Anchors” WSRC-IM-95-58, Engineering Guide16051-G, “Installation of Electrical Raceway Systems and Cable Trays

2.1.4.17 WSRC-IM-95-58, Engineering Guide 16052-G, “Installation of Electrical Wires, Cables, and Terminations”

2.1.4.18 WSRC-IM-95-58, Engineering Guide 16053-G, “Installation of Electrical Equipment” WSRC-IM-95-58, Engineering Guide 16054-G, “Installation of Electrical Heat Tracing and Freeze Protection”

2.1.4.19 WSRC-IM-95-58, Engineering Guide 16055-G, “Installation of Lighting and Communication Systems”

2.1.4.20 WSRC-IM-95-58, Engineering Guide 16056-G, “Installation of Grounding Systems”

2.1.4.21 WSRC-IM-95-58, Engineering Guide 16057-G, “Installation of Cathodic Protection Systems”

2.2 Orders / Regulations

2.2.1 29 CFR 1910, Occupational Safety and Health Standards

2.2.2 29 CFR 1926.16 – OSHA Rules of Construction

2.3 SRS Documents

2.3.1 Drawings

2.3.1.1 Savannah River Nuclear Solutions (SRNS) will provide any drawings, sketches, or prints with each Task Order as required.

2.3.2 Documents

2.3.2.1 BICSI Telecommunications Distribution Methods Manual

2.3.2.2 BICSI Network Design Reference Manual

2.3.2.3 BICSI OSP (Outside Plant) Design Manual

2.3.2.4 BICSI Telecommunications Cabling Installation Manual

2.3.2.5 **OSR 45-4, Latest, Supplier Deviation Disposition Request (SDDR)**

A. With instructions

3.0 WORK REQUIREMENTS

3.1 Task Requirements

3.1.1 Technical Requirements

3.1.1.1 The subcontractor shall be responsible for all equipment, labor, material, and supervision to perform each Task Order and to assure the quality of items and services meet the requirements of this Statement of Work (SOW) and applicable codes and standards as stated in sections 2.1.3 and 2.1.4. The work includes procuring, handling, sorting, and installing or removing of Fire Alarm Systems, Water-Based Systems, Special Hazards Systems, electrical, telecommunications, electrical fire protection, and underground at the Savannah River Site (SRS).

3.1.1.2 The Subcontract Technical Representative (STR) shall provide the necessary information/scope of work to the Subcontractor for each task.

3.1.1.3 Welding Requirements

A. All welding shall be performed in accordance with the codes and standards listed in sections 2.1.3 and 2.1.4.

B. All welding shall be performed in accordance with the AWS structural welding code D1.1, with the exception that the welding procedure qualification and welding be in accordance with AWS D1.1 or ASME Section IX.

C. Welding processes shall be limited to those allowed by AWS D1.1.

D. Welding electrodes shall be E70XX series unless otherwise specified by design.

E. Welding electrodes shall conform to the applicable AWS specification and shall be stored and controlled in accordance with AWS D1.1 to maintain traceability until consumed in process.

F. All welds require visual inspection and documentation in accordance with AWS D1.1.

G. All examinations/inspection personnel and procedures shall be qualified in accordance with AWS D1.1.

H. If welding is being performed offsite the following submittals will be required for review and approval prior to work commencing:

1. Weld procedure specification
2. Procedure qualification records
3. Welder performance qualification records
4. Weld filler material control procedures
5. NDE examination procedure and associated procedure qualification Records.
6. NDE personnel qualifications.

I. Welding and Hot Work will follow SRS Fire Protection Implementing Procedure Manual 2Q 5.3, Fire Watch and Patrol and Manual 2Q 5.4, Control of Hot Work and Hot Work Permits.

3.1.1.4 Fire Protection Requirements

A. All on Site fire protection work shall be performed in accordance with the applicable codes and standards of sections 2.1.3, 2.1.4, and as specified in each Task Order.

B. Installation of any fire alarm or suppression system shall be performed using design documents prepared by SRNS for the Task Order and according to applicable requirements identified within each Task Order.

C. Installation acceptance will be submitted according to each Task Order.

D. Installation shall be performed using design documents prepared by SRNS for the required scope in each Task Order. Installation shall align with these design documents and NFPA Codes and Standards as applicable and specified for each Task Order.

E. Work shall be performed by a fire alarm contractor with the following qualifications:

1. Personnel shall be trained and certified by the manufacturer for installation of units required for Fire Systems and associated monitoring devices. An installer shall have an individual who is certified as a Level III, or IV Technician by the National Institute for Certification in Engineering Technologies (NICET) in Fire Alarm Systems or subfield related to work scope.
2. New system installation work will be inspected weekly by NICET Level II or higher.
3. Work at the fire panel shall be performed by a vendor qualified person or a NICET II or higher.
4. NICET III or higher will approve the installation and conformance by verification prior to the Acceptance test by SRNS.

F. Each solenoid valve, pressure switch, fire hydrant, PIV and supervisory switch (valve tamper switch) with a component number assigned on design documents

shall be identified with a permanently marked, red embossed metal nameplate that is securely fastened with stainless steel wire or chain. Components numbers shall be indicated in ½ inch white letters and numbers. Fire System field components must also be labeled according to the TOA.

G. The Subcontractor may conduct functional tests and verification throughout the installation process to validate installation and equipment operations. SRNS will be notified of the functional testing and verifications performed by the Subcontractor to allow for observations and evaluation of interactions with existing structures, systems, and components (SSCs).

H. SRNS will be present and will witness the Final Functional Testing and Verification activities performed. This will be conducted prior to the SRNS Acceptance Test.

I. A notice (consistent to the time identified in the subcontract documents) is required prior to the initiation of each testing.

J. The Subcontractors NICET Level III or higher will participate in the Fire System Acceptance Test performed by SRS Fire System Commissioning Group before turnover of the system to SRNS can occur.

K. Turnover of the systems and components to SRNS occurs upon completion of FAI-51 and resolution of punch list items relating to the subcontractor.

L. All Fire Protection System Tests shall be witnessed by SRNS and the Subcontractor's NICET Level III or higher.

3.1.1.5 Arc Flash Protection

A. The Subcontractor shall provide for their employees FR apparel for Arc flash protection per current revision of 18Q, Procedure 2, Attachment 7, Table 3 "70E Personal Protective Equipment Requirements" as required per task.

3.1.1.6 Request For Information (RFI's) will be submitted by the subcontractor in a timely manner. RFI's are not to be submitted as a means of extending the estimate due date. All RFI's should be submitted in the first and second day of the estimate period.

3.1.2 Radiological Work

3.1.2.1 Work within a Radiological Posted Area may be required. The standard uplift percentage added to the unit of measure rate required and possible dress-out requirements for working in different areas are as follows (actual dress-out requirements will be defined per task):

A. Radiological Buffer Area (RBA)

The Subcontractor will receive a 10% uplift when working in this area. Street clothes are acceptable in this area. This factor takes into account the security, signing in/out on a Radiological Work Permit (RWP), more personnel congestion, minimal fabrication, laydown, and material storage adjacent to work location area, dependency on Operations, and monitoring prior to exiting the area.

B. Contaminated Dress No. 1 (CD1)

The subcontractor will receive a 30% uplift when working in this area. Obtain and dispose of one (1) pair of coveralls, shoe covers, gloves and headliner; enter area, sign in/out on an RWP, monitor prior to exiting area and wrench time (loss of production due to dress).

C. Contaminated Dress No. 2 (CD2)

The subcontractor will receive a 70% uplift when working in this area. Obtain and dispose of two (2) pairs of coveralls, two (2) pairs of vinyl shoe covers, one (1)

pair of cloth shoe covers, one (1) pair of cloth gloves, two (2) pairs of rubber gloves, cloth headliner, respirator (or breathing air hood); remove and redress in street clothing, enter area, sign in/out on a RWP, monitor prior to exiting area, removal of dress out clothing and wrench item (loss of production due to dress).

D. Contaminated Dress No. 3 (CD3)

The subcontractor shall receive 230% uplift when working in this area. Obtain and dispose of two (2) pairs of coveralls, two (2) pairs of vinyl shoe covers, one (1) pair of cloth shoe covers, one (1) pair of cloth gloves, two (2) pairs of rubber gloves, plastic suit/breathing air; remove and redress in street clothing, enter area sign in/out on a RWP, monitor prior to exiting area, removal of dress out clothing and wrench time (loss of production due to dress).

3.2 SRS Furnished Material, Equipment, Services

3.2.1 The specific SRNS Furnished Materials, Equipment, or Services will be identified with each TOA.

3.2.2 All Site use, Site clearance permits, work permits, AHA's, etc. that are required to perform a task will be provided to the contractor except for the South Carolina Department of Health and Environmental Control (SCDHEC) permit which is required to move a trailer as applicable by each TOA. The SCDHEC permit and any other federal, state and/or local permits will be obtained by the subcontractor. A pre-task inspection for asbestos containing material shall be done by SRNS and a letter provided to the subcontractor with the test results so the subcontractor can apply for the permit.

3.2.3 SRNS will furnish ground penetrating radar (GPR) unless otherwise specified.

3.2.4 All Site-specific training required by SRNS will be provided by SRNS.

3.2.5 SRNS reserves the right to furnish any or all materials.

3.2.6 Work packages required to perform work shall be provided by SRNS. Signoffs in the work package may be required by the appropriate subcontractor's representative during the task.

3.2.7 Lead paint sampling to be done by SRNS and sent to the laboratory for analysis. Test results are sent to Environmental and Industrial Hygiene (IH). IH will submit a letter to SRNS indicating the lead level. A copy of that letter will also be given to the subcontractor. SRNS will have Environmental determine if it is hazardous waste and/or lead waste. Environmental will assist in providing instructions on handling the waste during abatement. Lead waste disposal to be done by SRNS where the material was abated from.

3.2.8 Pre-task inspection/ bulk sampling for asbestos containing material shall be by the SRNS Construction Management Asbestos Coordinator (CMAC). All disposals shall be coordinated through the CMAC. Reference 3Q Manual, Procedure 6-18; Disposal of Nonradioactive Asbestos Waste.

3.2.9 SRNS will identify and provide disposal of waste.

3.3 Quality Requirements

3.3.1 All work shall be performed in accordance with this SOW, Department of Energy (DOE) orders and/or referenced standards and codes per Section 2.1.3, 2.1.4, and as required by the scope of work and TOA documents.

3.4 Site Conditions

3.4.1 The work site/task specific conditions are listed in the scope of work provided for each Task Order.

3.5 Period of Performance / Schedule

3.5.1 Normal daily work hours shall be 6:00 am to 4:30 pm., Monday through Thursday. Individual tasks may require different work hours and/or requirements as identified during the walk-down.

3.5.2 Schedule shall be a field execution schedule compatible with Primavera P6 or Microsoft Project. Schedule shall be updated every 2 weeks or upon SRNS request.

3.6 Personnel Qualifications / Certification

3.6.1 The subcontractor shall maintain and have readily available upon request a personnel roster with all required records, including a training matrix, postings, operator qualifications, etc.

3.6.2 The subcontractor is responsible for ensuring personnel performing work on, controlling, and disposing of Asbestos Containing Materials are in accordance with Site, State, and Federal requirements and shall be completed by a licensed Asbestos Abatement contractor. The subcontractor shall provide the required asbestos training to all personnel performing asbestos abatement activities prior to the start of asbestos work at no cost to SRNS.

3.6.3 Personnel shall be trained and certified by the manufacturer for installation of units required for Fire Systems and associated monitoring devices. Installer shall have and provide in person, as specified in this Scope of Work and each Task Order, an individual who is certified as a Level III, or IV Technician by the National Institute for Certification in Engineering Technologies (NICET) in Fire Alarm Systems or subfield related to work scope.

3.6.4 New system installation work will be inspected weekly by a NICET Level II or higher certified subcontract provided person.

3.6.5 A NICET III or higher certified subcontract provided person will approve the installation and conformance by verification prior to turnover to SRS.

3.6.6 Sprinkler system welders shall be qualified per the requirements of NFPA 13 (or ASME Sect. IX)

3.7 Deliverables

3.7.1 **Deliverable**

3.7.1.1 Subcontractor shall complete each Task Order in accordance with the design documents/scope of work provided with the task and all applicable codes and standards. Subcontractor shall provide proof of verifications as required per the Task Order.

3.7.1.2 Deviations Must be approved by SRNS Prior to the installation alternative items or methods used during the installation.

3.7.2 Required Submittals:

3.7.2.1 Defined in specific requirement statements and listed on the Engineering Document Requirements (EDR) form, Attachment 5.1.

3.7.2.2 The subcontractor shall submit a signed Daily Activity Reports (DARs) no later than the next business day to the STR. The Weekly Man-hour Report will be submitted

every Monday for the preceding week to the STR. All delays shall be documented on the DAR's with the Field STR signature denoting concurrence. SRNS shall provide the subcontractor with these forms.

3.7.2.3 The subcontractor shall submit Safety Data Sheets (SDS) to the STR for acceptance for ALL chemicals/materials prior to bringing materials on site. In addition, an IH Assessment shall be submitted for all chemicals being used and hazards with an occupational exposure limit being performed per Task Order.

3.7.2.4 The subcontractor shall obtain and submit to the STR a SCDHEC permit for each task, as required.

3.7.2.5 Submittal shall include certifications and qualifications to verify personnel requirements mentioned in Section 3.1.1 and Section 3.6 are met.

3.8 Asbestos Handling and Waste

3.8.1 SRNS shall be responsible for asbestos testing. SRNS will provide copies of the inspection results to the Subcontractor for the purpose of obtaining Demolition and Renovation permits.

3.8.2 Obtaining demolition and renovation permits will be the responsibility of the subcontractor. Abatement, packaging, providing of receptacles, manifesting, and shipping of asbestos will also be the responsibility of the subcontractor if asbestos abatement is required. Waste receptacles, waste labeling, and storage conditions for asbestos waste will meet the requirements of South Carolina Regulation 61-86.1 and 29 CFR Part 1926.1101. All abatement shall be done by a licensed Abatement Contractor. Copies of waste manifests shall be provided to the STR and given to the SRNS Asbestos subject matter expert (SME).

3.8.3 The subcontracting Asbestos Hazard Emergency Response Act (AHERA) Supervisor is responsible for removing all regulated and nonregulated asbestos containing material as specified in the asbestos inspection reports.

3.8.4 Nonfriable asbestos waste removed from the trailers will be handled as not to render the waste friable. Friable asbestos waste removed from the trailers will be labeled as such and segregated from nonfriable waste.

3.8.5 If non-friable asbestos materials are transported to the SRS C&D Landfill, advance notification shall be provided to SRS C&D Landfill, prior to transport, to allow landfill personnel to facilitate acceptance and immediate cover requirements by landfill operator as required by the SRS C&D Landfill Permit, SCDHEC Regulation and Site Procedure.

3.8.6 If non-friable or friable asbestos materials generated onsite are transported to the Three Rivers Landfill, advance notification shall be provided to Three Rivers Landfill, prior to transport, to allow landfill personnel to facilitate acceptance and immediate cover requirements by landfill operator as required by the TRL Class II Landfill Permit and SCDHEC Regulations. A Special Waste Manifest will be required from the SRS Asbestos Program Administrator

3.8.7 Copies of all completed special waste manifests and disposal records will be provided to the SRS Asbestos Program Administrator

3.9 Waste Handling

3.9.1 The Subcontractor shall remove all smoke detectors, exit signs, and thermostats as specified within each Task Order Agreement. Each commodity shall be segregated and placed into the labeled receptacle provided by SRNS. The SRNS ECA or GCO shall be responsible for the removal and disposal of these items.

3.9.2 Any scrap metal, brass fittings, brass pressure relief valves, scrap furniture, etc., removed by the Subcontractor, shall be placed into a skid pan provided by SRNS to be managed by SRNS for scrap metal recycling. Tires and axles may not be disposed in the SRS C&D Landfill.

3.9.3 Old fire alarm control units (panels) and associated components removed will be turned over to SRNS.

3.10 Deviations

3.10.1 OSR 45-4, Supplier Deviation Disposition Request (SDDR) Preparation

3.10.1.1 Prepare a SDDR for each Subcontractor proposed deviation from the technical or quality requirements of this procurement.

A. Applies to proposed deviations after award of contract.

B. Use to request material substitution “SRNS accepted equal”.

3.10.2 Perform the following for each deviation.

3.10.2.1 Identify SOW and revision number.

3.10.2.2 Identify criteria that cannot be met by item and SOW section number.

3.10.2.3 Present explanation for the deviation.

3.10.2.4 Present proposal for resolution of the deviation.

3.10.2.5 Present price and schedule adjustment for the proposed resolution of the deviation.

3.10.2.6 Do not perform work on or install any item for which a SDDR is submitted until a written disposition of the SDDR is received from SRNS.

3.10.2.7 Transmit SDDR to SRNS SSR / STR for disposition.

3.10.3 Nonconformance

3.10.3.1 Identify on a SDDR.

3.10.3.2 Include supporting technical justification when requesting acceptance of a "Use-As-Is" or "Repair" disposition.

3.10.3.3 Attach a copy of the Non-Conformance Report (NCR) prepared in accordance with your Quality Assurance Program.

3.10.3.4 Transmit SDDR with NCR to SRNS STR for disposition.

3.10.4 Prior to shipping

3.10.4.1 Complete the SDDR(s), if any.

3.10.4.2 Submit completed SDDR(s) or to the STR or with turn-over package as defined in the Procurement documentation.

4.0 ACCEPTANCE OF SERVICES

4.1 Inspection / Testing Requirements

4.1.1 **Inspections / Examinations**

4.1.2 Visual inspection of the completed task will be performed as necessary by the Facility POC, FP-DAE, and STR to verify that the work is complete, the requirements of the scope of work have been met and that the quality of work is acceptable.

4.1.3 **Testing**

4.1.3.1 Not Used

4.2 SRS Surveillance (HOLD POINTS)

4.2.1 A final acceptance inspection (FAI) of the job sites and surrounding areas shall be performed by SRNS. The areas shall be clear of all debris and left in a manner equal to when the task began.

4.2.2 SRNS has the right to monitor the work area and reserves the right to perform quality assurance verifications at any time throughout the duration of the job.

4.2.3 **Witness Points**

4.2.3.1 Not Used

4.2.4 **Verification Points**

4.2.4.1 Not Used

4.3 Final Acceptance Method

4.3.1 Acceptance of Service

4.3.1.1 Each Task Order will identify the acceptance criteria.

4.3.1.2 Final Acceptance Testing activities will follow the Work and Technical requirements identified in Section 3.1.1., and as identified in each Task Order.

4.3.1.3 The subcontractor, Facility POC, STR, Fire Protection Design Authority Engineer (FP-DAE) and other Fire Protection Engineering Representative(s), will walk down the executed work to determine the completion of the scope.

4.3.1.4 Upon completion of Functional Testing and Verifications by the Subcontractor, the Subcontractor shall notify SRS, and participate in an acceptance test with Fire System Commissioning Group to ensure the system is prepared for turnover.

4.3.1.5 Turnover of the systems and components to SRNS occurs upon completion of FAI-51 and resolution of punch list items relating to the subcontractor.

4.3.1.6 Successful completion of a walkdown activity of the system by the STR and Subcontractor after installation is completed.

4.3.1.7 Confirmation that all EDR and QVDR have been submitted, reviewed and SRNS accepted.

4.3.1.8 SDDRs have been dispositioned by SRS engineering and completed in accordance with SDDR Instructions.

4.3.1.9 Confirmation of satisfactory performance in accordance with procurement contract as documented by the STR and the SRNS procurement representative.

4.3.1.10 Successful completion of Post Delivery Testing.

5.0 ATTACHMENTS

5.1 Engineering Document Requirements with Instructions (2 Page)

Engineering Document Requirements

Attachment No. 5.1
Revision No. 0
Spec/Req'n No. F-SOW-G-00021
Proc. Ref. 3E, 1.6
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Engineering Document Requirements (EDR)

Proc. Ref. 3E, 1.6

Attachment No.	Revision No.	PRD No.
5.1	0	F-SOW-G-00021

1. Document Category Number	2. PRD Paragraph Reference	3. Document Description	4. Permission to Proceed Required		5. Submittal Schedule	6. Quantity Required		7. Kind of Copies	8. Remarks
			Yes	No		Initial	Final		
10.1	3.7.2.2	Daily Activity Reports	☐	☒	End of Each Work Day		1	PDF	
10.1	3.7.2.3	Safety Data Sheets (SDS)	☒	☐	Prior to product arrival on Site		1	PDF	
10.1	3.7.2.4	SCDHEC permit	☒	☐	Before Task req permit starts		1	PDF	As Required by SOW
10.1	3.7.2.5, 3.7	Certifications and qualifications	☒	☐	During Bid Process		1	PDF	Copy of Certificates
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Engineering Document Requirements

Proc. Ref. 3E, 1.6

Attachment No. 5.1
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Attachment No.
5.1
Revision No.
0
PRD No.
F-SOW-G-00021

Engineering Document Requirements (EDR)

Instructions

Proc. Ref. 3E, 1.6

Purpose The Engineering Document Requirements (EDR) form is prepared by the originator. It establishes a basis for actions required of a Supplier and provides the schedule for the submittal of engineering documents by the Supplier.

Legend

Item	Information Required
1	Enter the Document Category Number (see below).
2	Enter the applicable Procurement Requirements Document (PRD) paragraph reference.
3	Enter Description corresponding to Document Category Number.
4	Permission to proceed with fabrication or other specific processes is marked "Yes", if required.
5	List a milestone after award (e.g., prior to fabrication, prior to test, prior to shipment, or a time frame after award) that the listed document is to be submitted.
6	Enter number of copies required for submittal.
7	Reproducible, Mylar, Vellum, PDF, etc.
8	Enter remarks when appropriate

Document Category Numbers and Descriptions

1.0 Drawings

1.1 Outline Dimensions, Services, Foundations and Mounting Details – Drawings providing external envelope, including lugs, centerline(s), location and size for electrical cable, conduit, fluid, and other service connections, isometrics and details related to foundations and mountings.

1.2 Assembly Drawings – Detailed drawings indicating sufficient information to facilitate assembly of the component parts of an equipment item.

1.3 Shop Detail Drawings – Drawings which provide sufficient detail to facilitate fabrication, manufacture, or installation. This includes pipe spool drawings, internal piping and wiring details, cross-section details and structural and architectural details.

1.4 Wiring Diagrams – Drawings which show schematic diagram equipment, internal wiring diagrams, and interconnection wiring diagram for electrical items.

1.5 Control Logic Diagrams – Drawings which show paths which input signals must follow to accomplish the required responses.

1.6 Piping and Instrumentation Diagrams – Drawings which show piping system scheme and control elements.

2.0 Parts Lists and Costs – Sectional view with identified parts and recommended spare parts for one year's operation and specified with unit cost.

3.0 Complete SRS Data Sheets – Information provided by Supplier on data sheets furnished by SRS.

4.0 Instructions

- 4.1 Erection/Installation – Detailed written procedures, instructions, and drawings required to erect or install material or equipment.
- 4.2 Operations – Detailed written instructions describing how an item or system should be operated.
- 4.3 Maintenance – Detailed written instructions required to disassemble, reassemble, and maintain items or systems in an operating condition.
- 4.4 Site Storage and Handling – Detailed written instructions, requirements, and time period for lubrication, rotation, heating, lifting or other handling requirements to prevent damage or deterioration during storage and handling at job site. This includes shipping instruction for return.

5.0 Schedules: Engineering and Fabrication/Erection – Bar charts or critical path method diagram which detail the chronological sequence of activities, e.g., Engineering submittals, fabrication, and shipment.

6.0 Quality Assurance Manual/Procedures – The document(s) which describe(s) the planned and systematic measures that are used to assure that structures, systems, and components will meet the requirements of the procurement documents.

7.0 Seismic Data Reports – The analytical or test report which provides information and demonstrates suitability of material, component, or system in relation to the conditions imposed by the stated seismic criteria.

8.0 Analysis and Design Reports – The analytical data (stress, electrical loading, fluid dynamics, design verification reports, etc.) which demonstrate that an item satisfies specified requirements.

9.0 Acoustic Data Reports – The noise, sound, and other acoustic vibration data required by the procurement documents.

10.0 Samples

10.1 Typical Quality Verification Documents – A representative data package which will be submitted for the items furnished as required in the procurement documents.

10.2 Typical Material Used – a representative example of the material to be used.

11.0 Material Descriptions – The technical data describing a material which a Supplier proposes to use. This usually applies to architectural items, e.g., metal siding, decking, doors, paints, coatings.

12.0 Welding Procedures and Qualifications – The welding procedure, specification and supporting qualification records required for welding, hard facing, overlaying, brazing and soldering.

13.0 Material Control Procedures – The procedures for controlling issuance, handling, storage, and traceability of materials such as weld rod.

14.0 Repair Procedures – The procedures for controlling materials removal and replacement by welding, brazing, etc., subsequent thermal treatments, and final acceptance inspection.

15.0 Cleaning and Coating Procedures – The procedures for removal of dirt, grease or other surface contamination, and preparation and application of protective coatings.

16.0 Heat Treatment Procedures – The procedures for controlling temperatures and time at temperature as a function of thickness, furnace atmosphere, cooling rate and methods, etc.

19.0 UT – Ultrasonic Examination Procedures – Procedures for detecting discontinuities and inclusions in materials by the use of high frequency acoustic energy.

20.0 RT – Radiographic Examination Procedures – Procedures for detecting discontinuities and inclusions in materials by x-ray or gamma ray exposure of photographic film.

21.0 MT – Magnetic Particle Examination Procedures – Procedures for detecting surface or near surface discontinuities in magnetic materials by the distortion of an applied magnetic field.

22.0 PT – Liquid Penetrant Examination Procedures – Procedures for detecting discontinuities in materials by the application of a penetrating liquid in conjunction with suitable developing materials.

23.0 Eddy Current Examination Procedures – Procedures for detecting discontinuities in materials by distortion of an applied electromagnetic field.

24.0 Pressure Test – Hydro, Air, Leak, Bubble or Vacuum Test Procedures – Procedures for performing hydrostatic or pneumatic structural integrity and leakage tests.

25.0 Inspection Procedures – Organized process followed for the purpose of determining that specified requirements (dimensions, properties, performance results, etc.) are met.

26.0 Performance Test Procedures – Test performed to demonstrate that functional design and operational parameters are met.

26.1 Mechanical Tests – e.g., pump performance, data, valve stroking, load, temperature rise, calibration, environmental, etc.

26.2 Electrical Test – e.g., impulse, overload, continuity, voltage, temperature rise, calibration, saturation, loss, etc.

27.0 Prototype Test Reports – Reports of a test which is performed on a standard or typical examination of equipment or item, and which is not required for each item produced in order to substantiate the acceptability of equal items. This may include tests which result in damage to the item(s) tested.

28.0 Personnel Qualification Procedures – Procedures for qualifying welders, inspectors, and other special process personnel.

29.0 Supplier Shipping Preparation Procedures – Procedures used by a Supplier to prepare finished materials or equipment for shipment from its facility to the job site.

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Description

This is a sources sought notice for information only. This sources sought is for the purpose of conducting market research to provide data for planning purposes. This sources sought synopsis announcement does not constitute a formal solicitation, and is not a request for proposal, request for quote, invitation for bid, does not obligate the government to award a contract, issue a solicitation, reimburse respondents for any proposal preparation and/or submittal costs, nor does its issuance in any way restrict the Government as to its ultimate acquisition approach. The Government will not pay for any materials provided in response to this notice and submittals will not be returned to the sender.

This sources sought notices is not a solicitation nor will a solicitation package be issued as a result of this announcement, and no award shall be made as a result of this announcement. In the event that a solicitation is developed, it will be assigned a formal Request for Proposal (RFP) number issued via email.

The Department of Energy has awarded a Prime Contract to Savannah River Nuclear Solutions LLC (SRNS) for the Management and Operations (M&O) of the Savannah River Site (SRS) near Aiken, South Carolina. As the M&O Prime Contractor at SRS under the landlordship of the National Nuclear Security Administration (NNSA), SRNS is responsible for multiple projects to include but not limited to the Tritium Finishing Facility (TFF), the Surplus Plutonium Disposition (SPD) Project, Tritium Production, Waste Management and Chemical Separations. Additionally, SRNS is responsible for the maintenance and upkeep of site infrastructure such as buildings, roads, parking lots, HVAC systems, electrical infrastructure, mobile office trailers, railroad inspections and so forth.

SRNS intends to award one or more Basic Ordering Agreements (BOAs) to multiple subcontractors to provide general construction services to ensure the continuity of SRS' critical missions. The contractor shall provide all materials, staff, tools, and equipment necessary for the work described in the Statements of Work Listed below corresponding to their attachment number:

1) **Fire Protection - NAICS Code 238210**
    a. Estimated overall volume of work $6M
    b. Estimated range for individual task orders $100k - $350k

Response to this sources sought notice is mandatory in order to be included in upcoming solicitations.

RESPONSES DUE

Responses are requested no later than **13 February 2025 at 10:00 AM EDT**. Direct expression of interest as well as required documentation should be submitted in writing, via email, to Ricky Franzen at ricky.franzen@srs.gov.

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RESPONSE SUBMISSION INFORMATION

All potential sources with the capability to provide the requirements referenced in this sources sought are invited to submit, in writing, sufficient information within the page limitations listed below. This information should demonstrate the respondent's ability to fulfill the technical, delivery, and support requirements and be responsive to the technical questions in this RFI as indicated below. We will not answer technical questions or provide additional technical information at this time via this sources sought notice.

Potential offerors shall identify the SOWs within this sources sought notice for which they are interested in receiving a future solicitation and include a coversheet for each SOW. Individual responses to this sources sought notice shall include the following for each SOW your firm is requesting to be included in:

1. A cover sheet which includes:

- Company Name
- Address
- Primary Point of Contact
- E-mail Address
- Phone Number
- DUNS Number
- Primary Business and Market Areas
- Experience Modification Rate (EMR), Total Recordable Case (TRC) Rates and OSHA 300 logs for the last 3 years.
- Business Size and Socioeconomic Status
- Declare if the offeror would be participating as a primary contractor, a joint venture or partnership or other as applicable to their submission.
- Defense Contract Audit Agency (DCAA) audit status for cost-reimbursable (e.g. time and material) contract types

2. Relevant Construction Project Experience (four (4) page limit):

- Offerors must verify experience commensurate with the statements of work listed within this sources sought notice. The potential offerors need to demonstrate that they posses, within the last five years, construction experience similar to that described in this specified source sought category.
- Experience described above needs to include the offeror's role (for example - primary contractor or subcontractor). Each project experience needs to include the contract number, the US Agency or private company that awarded the contract and contract monetary value.
- Experience in furnishing and installation of materials, equipment, manpower, and any other necessary resources required for initiation to completion of design-build projects.
- Experience working under BOAs or Indefinite Delivery, Indefinite Quantity (IDIQ) type contracts as applicable.
- Experience working with the Department of Energy (DOE) and / or the Department of Defense (DOD) or other federal entities as applicable.
- Experience working under Project Labor Agreements and compliance with Federal requirements for certified payroll submission (Construction Wage Rate Requirements [formerly known as Davis-Bacon]) as applicable.
- Ability to provide all required design and engineering services, manpower, and materials to construct new buildings or to renovate existing ones.
- For non-local companies, a brief overview of craft acquisition plan and plan to retain work force, Per-diem, adherence to travel compensation schedule, GSA… (still working on this one).

Period of Performance

The intended period of performance is one (1) base year with four (4) option periods at one year each. Actual period of performance will be established at the issuance of a solicitation (if any).