STATEMENT OF WORK
FOR
MAINTENANCE AND INSPECTION OF ON-SITE FUEL STORAGE AND DISPENSING SYSTEMS PROJECT

CAT: ☐A1 ☐A2 ☒A3

[FUEL_CAT_R01 (1.1,1.2,1.3,1.4)]

UNIQUE IDENTIFIER: FUEL-SOW-002

Reference Work Planning #: NA

REVISION 0

DATE: May 15, 2026

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1.0 INTRODUCTION & SCOPE

1.1 INTRODUCTION

1.1.1 PPPL currently has on-site, multiple fuel dispensing and storage container systems that require routine maintenance, inspection and repair. PPPL is seeking to enter an agreement with a vendor to provide these services. The fuels currently dispensed and stored on site are, No. 2 Fuel Oil, Diesel, Biodiesel, Gasoline. Fuel storage containers range from steel tanks to concrete ConVault units, from 500 to 25,000 gallons. Some of these systems utilize Diesel-Pure filtering systems that require regular filter change-outs.

1.2 SCOPE

1.2.1 The Subcontractor shall provide all materials, labor, supervision, equipment, and expertise required to complete formal inspections and manufacturer required service for all dispensing, storage, monitoring/alarm and filtering systems on a Semi-Annual Basis.

1.2.2 Subcontractor shall also provide On-Call emergency service / repair if required by PPPL personnel.

2.0 APPLICABLE DOCUMENTS

2.1 Applicable documents and referenced standards shall follow the latest edition and/or revision unless noted otherwise. The applicable documents shall include, but are not limited to the following:

2.1.1 Code of Federal Regulation 10 CFR 851, Worker Safety and Health Program

2.1.2 Code of Federal Regulation 29 CFR 1910, Occupational Safety and Health Standards

2.1.3

2.1.4 American Petroleum Institute (API)

2.1.5 American Society of Mechanical Engineers (ASME)

2.1.6 Factory Mutual Global

2.1.7 Underwriter's Laboratory

2.1.8 ANSI, American National Standards Institute

2.1.9 STI SP001, Standard for the Inspection of Aboveground Storage Tanks

2.1.10 PPPL ES&H 5008, Safety Manual

2.1.11 PPPL MNL-007, Subcontractor Requirements Manual

2.1.12 Recommended practices and instructions of the equipment as identified in the manufacturer's manuals and instruction books (available upon request).

Any conflict among the standards, recommended practices, PPPL documentation and PPPL practices shall be communicated by the Subcontractor to the PPPL PTR for resolution.

3.0 APPLICABLE DRAWINGS

3.1 DRAWINGS

3.1.1 NA

3.2 SPECIFICATIONS

3.2.1 NA

4.0 RESPONSIBILITIES

4.1 PRINCETON PLASMA PHYSICS LABORATORY

4.1.1 PPPL will identify a Procurement Representative and a Princeton Technical Representative (PTR) for this contract.

4.1.2 All activities (scheduling, de-energizing, equipment staging & deliveries, and site access authorization) must be coordinated by the PTR to minimize systems down time and preclude negative impact on experimental operations.

4.1.3 All changes to the contractual terms of the subcontract must be approved, in writing, by the Procurement Representative, in accordance with the terms of the subcontract.

4.1.4 The PTR will review all submitted invoices and authorize payment.

4.1.5 PPPL will be responsible for the shutdown, switching, tagging and locking of equipment necessary for this work.

4.1.6 PPPL permits all employees to issue a “STOP WORK” Order, if unsafe work practices are observed.

4.2 SUBCONTRACTOR

4.2.1 The Subcontractor shall provide a single point of contact for any communication between PPPL and the Subcontractor.

4.2.2 All communications on technical matters shall be directed to the assigned PTR.

4.2.3 All communications on administrative matters shall be directed to the PPPL Procurement Representative.

4.2.4 In the event work has stopped, due to unsafe conditions or other related activities, the Subcontractor shall notify the Princeton Technical Representative immediately. See MNL-007, Section 3 for requirements related to abnormal event reporting and investigation

4.2.5 The Subcontractor shall be responsible for scheduling and coordinating all means and methods with PPPL prior to work execution i.e. onsite material storage, laydown area, vehicle access, equipment usage, etc. Various

restrictions (safety, inspections) shall be imposed by PPPL depending on the means and methods used.

4.2.6 The Subcontractor is responsible to verify and confirm the scope of work within this Statement of Work and referenced contract documents. All questions regarding the scope of work shall be directed to PPPL Procurement Representative and PTR.

4.2.7 The Subcontractor shall identify any issues to be mitigated in order to safely and efficiently perform work.

4.2.8 Work shall be performed in accordance with 10 CFR 851 and OSHA requirements.

4.2.9 The Subcontractor shall dispose of all debris in accordance with Federal, State, and Local requirements.

4.2.10 All work should be completed during normal working hours of 7:00 AM to 3:30PM, Monday through Friday. Off hours shall be allowed for emergency ON-Call service if required and directly authorized by PPPL's PTR.

4.2.11 A government issued, REAL ID compliant, Photo ID is required for Subcontractor access to PPPL.

4.2.12 The Subcontractor shall notify and obtain PPPL written approval for any lower-tier Subcontractor prior to their arrival on site.

4.2.13 The Subcontractor shall protect any and all infrastructure, equipment and property to prevent damage during project activities.

4.2.14 Subcontractor to maintain a clean work area at all times. All trash is to be removed and work area daily. Any lose materials; tools and equipment are to be secured daily.

4.2.15 The Subcontractor shall provide for emergency maintenance or repairs as required by PPPL on a time and materials basis.

5.0 REQUIREMENTS

5.1 PERFORMANCE REQUIREMENTS

The Subcontractor shall provide routine preventive maintenance (filter changes, etc.) and inspections for all the following equipment and sub items. In addition, the Subcontractor shall also provide the repair of any minor deficiencies found and shall report any serious problems immediately to the PTR or their designee and shall confirm them in writing on the service report. For each system, the Subcontractor shall prepare and submit copies of reports showing items inspected, tested, repaired or replaced, and notes of any items of concern signed by the performing technician.

5.1.1 AST-5R 900kW Generator Diesel

5.1.1.1 1000gal double containment ConVault Tank

5.1.1.2 Level indication and alarm system

5.1.1.3 Diesel-Pure System – 200 Series

5.1.2 AST-8 2600Kw Generator Diesel

5.1.2.1 15000gal steel tank with steel containment

5.1.2.2 Level indication and alarm system

5.1.2.3 Diesel-Pure System – 300 Series

5.1.3 Tanker 1 Diesel

5.1.3.1 5000gal Mobil Tanker

5.1.3.2 Diesel-Pure System – 100 Series

5.1.4 Tanker 2 Diesel

5.1.4.1 7500gal Mobil Tanker

5.1.4.2 Diesel-Pure System – 100 Series

5.1.5 AST-1 Boilers N0. 2 Fuel

5.1.5.1 25000gal steel tank with steel containment

5.1.5.2 Level indication and alarm system

5.1.5.3 Diesel-Pure System – 400 Series

5.1.6 AST-19,20,21,22 Fuel Dispensing Gasoline, Diesel, Biodiesel,

5.1.6.1 3000gal, 4 compartment double containment ConVault Tank

5.1.6.2 Level indication and alarm system

5.1.6.3 Diesel-Pure System – 200 Series (Diesel)

5.1.6.4 Diesel-Pure System – 200 Series (Biodiesel)

5.1.6.5 Fuel Dispensing Systems

5.1.6.6 Air Compressor System

5.1.7 OPERATING ENVIRONMENT

5.1.7.1 N/A

5.1.8 DESIGN LIFE

5.1.8.1 N/A

5.1.9 RELIABILITY

5.1.9.1 N/A

5.1.10 MAINTAINABILITY

5.1.10.1 N/A

5.1.11 HUMAN FACTORS

5.1.11.1 N/A

5.1.12 SUSTAINABILITY

5.1.12.1 PPPL's prime contract requires the purchase of certain types of sustainable products. Where such products are available and meet the technical requirements of the work, they should be specified to the maximum extent practicable. Sustainable products are defined in FAR 23.101 The U.S Environmental Protection Agency (EPA) Comprehensive Procurement Guidelines (CPG) and FAR 52.223-23 contains specific criteria that shall be used to identify and define sustainable products for purposes of this SOW"

- Energy-efficient product or low standby power device: https://www.energystar.gov/products?s=mega and https://www.energy.gov/cmei/femp/low-standby-power-product-list
- Biobased Products: https://www.biopreferred.gov/BioPreferred/
- Substances listed as a safe alternative in EPA's Significant New Alternatives Policy (SNAP) program: https://www.epa.gov/snap/unacceptable-and-acceptable-substitutes-tables

5.2 EQUIPMENT DEFINITION

5.2.1 SPECIFICATIONS AND STANDARDS

5.2.1.1 As per manufacturers' installation and maintenance requirements.

5.2.2 GENERAL DESIGN FEATURES

5.2.2.1 As per manufacturers' installation and maintenance requirements.

5.2.3 MATERIALS

5.2.3.1 As per manufacturers' installation and maintenance requirements.

5.2.3.2 Only new first quality materials will be supplied and used in this project.

5.2.3.3 Materials shall be delivered to the site in unopened, original containers, bearing the manufacturer's printed label stating the quality, brand or trade name, batch number, date of manufacture and directions for use. Delivery of small day-to-day supplies will not be permitted.

5.2.3.4 PPPL & DOE have active programs to prevent use of Suspect &

Counterfeit Items (SCI). Material(s) and/or product(s), including those components, parts, and materials that are permanently installed into assemblies furnished under this contract shall be new. The Subcontractor shall verify conformance of purchased items to manufacturers' installation and maintenance requirements and inspect items to detect signs of use or indications that raise questions of authenticity. Subcontractor shall actively prevent introduction of SCI to PPPL by inspection of all items brought on site to detect for the following:

5.2.3.4.1 Remanufactured, rebuilt, or used parts represented as new.

5.2.3.4.2 Counterfeit parts (fraudulently labeled or marked with another manufacturer's name).

5.2.3.4.3 Misrepresented parts.

5.2.3.4.4 The Subcontractor shall assure that fasteners do not have head marks listed on the DOE Head mark List (See Attachment 1, DOE Head mark List).

5.2.3.4.5 Regardless of application, high strength bolts, defined as bolts graded to have a tensile strength greater than 100 ksi, must have the original manufacturer's Certified Material Test Reports (CMTR), and must be traceable to the CMTR(s) using lot numbers or other unique identification. Fasteners shall exhibit grade marks and the manufacturer's identification symbol (headstamp) as specified in the referenced Material Specifications. Fasteners having a headmark that is displayed on the suspect fastener list (attachment #1) will not be accepted.

5.2.3.5 Subcontractor must provide any special equipment required to perform work. Subcontractor employees assigned to tasks must carry with them the basic tools of their trade.

5.2.4 IDENTIFICATION AND MARKING

5.2.4.1 As per manufacturers' installation and maintenance requirements.

5.2.5 WORKMANSHIP

5.2.5.1 As per manufacturers' installation and maintenance requirements.

5.2.5.2 Workmanship must comply with applicable codes and standards and generally accepted industry practices.

6.0 TEST & INSPECTION REQUIREMENTS

6.1 TESTING

6.1.1 Testing as specified per manufacturers' installation and maintenance requirements.

6.1.2 Annual inspection shall follow – STI (SP001).

6.2 SUPPLIER HOLD POINTS

6.2.1 N/A

6.3 QUALITY CONTROL RECEIPT INSPECTIONS

6.3.1 N/A

7.0 QUALIFICATIONS

7.1 Subcontractor shall be licensed and insured to provide associated services. These documents shall be supplied to PPPL for review and acceptance prior to performing work.

7.2 STI-Certified Aboveground Tank System Inspector certifications shall be provided with yearly STI (SP001) inspections for each inspector who performed work under this SOW.

7.3 Subcontractor shall be an approved distributor and installer of all components of the associated systems. These documents shall be supplied to PPPL for review and acceptance.

8.0 ENVIRONMENT, SAFETY, AND HEALTH

8.1 All work shall comply with PPPL MNL-007 Subcontractor Requirements Manual (SRM). (to be provided upon contract award)

8.2 The Subcontractor must prepare a written Project Health and Safety Plan (HASP) or Construction Environment, Safety, and Health Plan (CESHP) per PPPL MNL-007 SRM Section 2.6 that implements the requirements noted and shall obtain approval of the plan by PPPL prior to commencement of any work covered by the Plan. In the Plan, the Subcontractor must designate the individual(s) responsible for its on-site implementation, specify qualifications for those individuals, and provide a list of those project activities for which subsequent job hazard analyses are to be performed. The level of detail within the ISM Plan should be commensurate with the size, complexity and risk level of the project.

8.3 The Subcontractor shall identify for approval by PPPL the competent persons for activities as required by applicable OSHA standards. These should be included in the HASP or CESHP.

8.4 The Subcontractor must comply with:

8.4.1 The requirements listed in this Statement of Work;

8.4.2 The Subcontractor's HASP or CESHP , and

8.4.3 All applicable Federal, State, and local laws, regulations and requirements whether or not they are specifically listed in the Statement of Work or subcontract.

8.5 All work shall be in accordance with all OSHA, DOE and PPPL requirements. Care shall be taken to protect personnel, employees and surroundings.

8.6 At bid, The Subcontractor shall submit their most recent three-year averages for EMR, lost time frequency rate (DART), and total recordable incident rate (TRC). Average EMR must be at or below 1.0, and DART/TRC case rate must be at or below 75% of the Bureau of Labor Statistics DART/TRC for NAICS code 541990 (All Other Professional, Scientific, and Technical Services).

8.7 Subcontractor's personnel working on-site at PPPL for more than 40 hours will be required to successfully complete PPPL's General Employee (safety) Training and receive a PPPL Identification Badge. PPPL Identification Badges are to be returned to PPPL upon completion of subcontract.

8.8 The Subcontractor shall prepare and have approved by the PPPL Manager, a Job Hazard Analyses (JHAs) in accordance with PPPL MNL-007 SRM prior to commencement of affected work. The JHAs must identify foreseeable hazards and protective measures and address further hazards revealed by supplemental information provided by the PPPL Manager. The JHA form will be provided upon request.

8.9 The Subcontractor shall ensure workers are aware of foreseeable hazards and the protective measures as defined by JHAs and require that workers acknowledge being so informed. This policy shall be included within the submitted HASP or CESHP . The Subcontractor shall be responsible to review the JHA with its own employees and PPPL personnel prior to crossing the project site boundary.

8.10 The Subcontractor shall ensure that workers not following safe work practices are subject to Subcontractor's disciplinary process. This policy shall be included within the submitted HASP or CESHP.

8.11 The Subcontractor shall maintain a designated representative onsite during all activities that is knowledgeable of the associated hazards and has the authority to act on behalf of the Subcontractor and who makes frequent and regular inspections of the work site to identify and correct any instance of a noncompliance with project safety and health requirements.

8.12 The Subcontractor shall instruct workers to report to the Subcontractor's designated representative hazards not previously identified or evaluated. If immediate corrective action is not possible or the hazards fall outside the project scope, the Subcontractor must immediately notify the affected workers, post appropriate warning signs, modify the appropriate JHAs, and implement needed interim control measures as well as notify the PPPL Manager of the action taken. The Subcontractor's workers or the designated representative must stop work in the affected area until appropriate protective measures are established.

8.13 The Subcontractor shall provide approval drawings and/or other documentation of protective measures for which applicable OSHA standards require preparation by a Professional Engineer or other qualified individual. These should be included in the ISM Plan and include but are not limited to Scaffolding and Fall Protection barriers and anchors.

8.14 All Subcontractor vehicles and equipment must be in good working order with no leaks of any kind. Any spills must be reported immediately to PPPL and work stopped until spill is addressed. The Subcontractor is responsible for remediation costs caused by negligence and or faulty equipment. PPPL Environmental Services will determine the proper method of remediation.

8.15 PPPL has safety programs that include the following areas: Confined Space Permits, Digging Permits, Penetration and Fire Seal permits, Flame permits, Radiation Work permits, Lock-out/Tagout of energy sources, and restrictions on working alone. The Subcontractor must confirm with their PPPL contact person that all prerequisites have been met before initiating any activity that involves these areas.

8.16 No burning or welding is permitted without a PPPL Flame permit. The work in this contract requires compliance with ESHD 5008, Section 5 Chapter 7.

8.17 All waste including paints and other chemicals must be disposed of in accordance with local, state and Federal regulations and PPPL requirements.

8.18 All waste materials generated shall be disposed of according to the Department of Energy E.O. 13963.

8.19 Weight report for all materials recycled must be reported monthly to the PTR.

8.20 Safety data sheets for all paints, adhesives, chemicals, stains and solvents must be provided at least 24 hours prior to the start of work.

8.21 Barricade tape, when needed, shall only be red "Danger" tape where personnel hazards exist. Yellow "Caution" tape may only be used for equipment protection. All barricade tape will be posted with the name and phone number of a contact. The PPPL representative may provide the contact information.

8.22 All requirements of this Statement of Work apply to all sub-tier contractors.

8.23 Subcontractor must have their employees trained and provide PPPL with their qualification prior to performing this work. PPPL ES&H training courses that are more specific to the Subcontractor's laboratory work scope may also be required. If PPPL determines that training of Subcontractor employees is inadequate, PPPL reserves the right to require Subcontractor to obtain certified training.

8.24 Subcontractor will separate waste and dispose of in the correct waste stream or recover as appropriate. Subcontractor will provide appropriate waste containers for each waste stream and provide weights for each stream generated at the time of shipment off site.

8.25 Subcontractor must submit a lock-out tag-out (LOTO) Program to be approved by PPPL. Application of locks and tags by affected individuals is required to mitigate hazards associated with any potential energy sources (electrical, mechanical, cryogenic, etc.).

8.25.1 Subcontractor may utilize PPPL's LOTO Program in lieu of their own. In this case, the Subcontractor's ISM plan shall invoke PPPL's LOTO procedure (ESH-016 "Control of Hazardous Energy (Lockout/Tagout)" current revision) in the plan body.

8.25.2 If Subcontractor uses the PPPL LOTO procedure, all workers shall be required to complete PPPL LOTO Classroom training. Training will be arranged by the PTR.

8.26 Silica, primarily from cutting, drilling, jackhammering, grinding, or milling of concrete materials requires compliance with OSHA 29 CFR 1926.1153(d), exposure monitoring, using an exposure limit of 25µg/m3 (American Conference of Governmental Industrial Hygienists Threshold Limit Value - ACGIH TLV) as opposed to the OSHA Permissible Exposure Limit of 50 µg/m3. The table in 29 CFR 1926.1153(c) may NOT be used. The contractor must perform exposure monitoring or provide enough data from similar work to demonstrate compliance. If respiratory protection is to be worn, the subcontractor must submit qualifications for respirator wearers, including documentation of (1) training, (2) fit tests and (3) medical approvals, dated within the year of use.

9.0 **QUALITY ASSURANCE REQUIREMENTS**

9.1 The Subcontractor shall establish and maintain an effective Quality Assurance Program (QAP) to assure that all work meets the required level of quality and is performed in accordance with requirements of this document. The QAP shall be submitted to PPPL for review upon request.

9.2 Neither PPPL's review and/or approval of Subcontractor's documents nor PPPL's inspection of Subcontractor's items or services shall relieve the Subcontractor of responsibility for full compliance with requirements of this statement of work.

9.2.1 The Subcontractor is responsible for assuring that all the requirements and restrictions of this document are imposed on any sub-tier suppliers.

9.3 Subcontractor shall perform work on this project only with tradesmen with a demonstrated history of the quality of work required with the specified products on previous jobs.

9.4 The Subcontractor is responsible for inspecting all work in progress to ensure compliance with this Statement of Work.

9.5 The assigned PPPL Coordinator and the Subcontractors representative/foreman are required to hold pre-job briefings. The briefings shall be held at the start of the work.

9.6 Control of Special Processes: Subcontractor shall use trained and qualified personnel and qualified written procedures in accordance with specified requirements for the performance of certain special processes, including but not limited to, soldering, electronic assembly, brazing, welding, plating, heat treatment, nondestructive examination, etc. Copies of special process procedures and qualifications shall be available for review by PPPL and submitted to PPPL for acceptance if requested.

10.0 **SHIPPING STORAGE AND HANDLING**

10.1 Limited storage area will be available for materials and tools. The Subcontractor will be responsible for complying with the manufacturer's recommendations for protecting materials from damage while stored and during installation. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

10.2 Temporary storage shall be provided by the Subcontractor as needed.

11.0 **WARRANTY**

11.1 All materials and equipment shall meet all manufacturer specifications to obtain a minimum system warranty established by the manufacturer. All installation and product warranty certificates and information shall be submmited to PPPL upon completion of work.

12.0 **ATTACHMENTS**

12.1 Attachment #1 – DOE Headmark List

DOCUMENTATION & DELIVERABLES

Deliverables List

Service contract #:_____

#	Physical Deliverables Required	When Deliverable Is Required	Deliverable Received (✔)
1	Service for items listed in Section 5.0	C	
2	Testing and Inspection Reports in Section 6.0	C	
Exceptions (Add justification for any missing physical deliverables that will not be received):			

#	Document Deliverables Required	When Deliverable Is Required	Deliverable format (paper, electronic etc.)	Storage Location for Deliverable	Deliverable Received (✔)
1	Testing and Inspection Reports in Section (section 5.0)	C	E	Facilities	
2	Qualifications (section 7.0)	B	E	Facilities	
3	Integrated Safety Management Plan (ISM) (section 8.2)	B	E	Facilities	
4	Lock-Out Tag-Out (LOTO) Program (section 8.25)	B	E	Facilities	
5	Quality Assurance Program (QAP) 9section 9.1)	B	E	Facilities	
6	Warranties (section 11.0)	C	E	Facilities	

*<u>*Legend</u>*
B = With Bid
N = Notice to Proceed Requirement
PS = Prior to Start
D = During Work/As Required
C = At Completion
P,E = Paper or Electronic

Princeton Technical Representative/COG:_____

(Sign-off and provide to the Operations Center when job is completed and deliverables are dispositioned and placed/filed in Operations Center (or other Project, Department or Division designated file center)

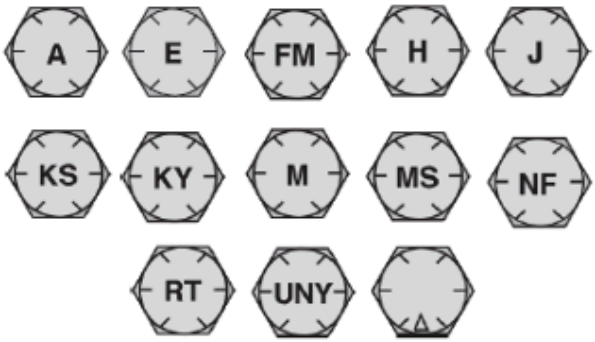
Attachment #1

Legacy Fastener Headmark List: Manufactured Prior to 1999

All fasteners listed below that are identified as having been manufactured prior to 1999 and as a best practice should be considered suspect/counterfeit or defective and replaced without any further testing. Additional verification may be needed or conducted on fasteners prior to use. This may be especially true if a site is unsure if a fastener is considered a "legacy fastener" produced prior to 1999. Some of these listed fasteners may still be found in distributors' stock, inventories, or other points of sale and therefore may be provided in more recent procurements. It may be necessary to determine the date of manufacture, obtain CMTRs, C of Cs, or other documentation of some of these fasteners to confirm they are not defective, suspect, counterfeit, or fraudulent. Additionally, if the fastener is determined to be one of these legacy fasteners and will be used, all of the following should be completed:

1) Validation or testing to ensure the fasteners meet requirements.
2) Marking or tagging of the fasteners.
3) Documentation to demonstrate that testing/validation has occurred; and
4) Documentation maintained until the fasteners are removed from service.

Grade A 325	Grade 5	Grade 8.2

Grade 8
 Note: Hollow Triangle (Greater than 1/2-inch diameter)