TYPE C
ARCHITECT-ENGINEER (A-E) SERVICES
PERFORMANCE WORK STATEMENT (PWS)

FOR

Install Base Microgrid (MILCON)
Project No.: WAAR209001

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PERFORMANCE WORK STATEMENT (PWS)
For
Type C A-E Services

1.0 GENERAL

1.1 **Scope:** The contractor shall provide all personnel, equipment, tools, materials, supervision, and quality control necessary to provide Designer of Record Support and Post Construction Award Services (Type C Services) for the Military Construction (MILCON) project WAAR209001 Install Basewide Microgrid**,** as defined in this PWS.

1.1.1 Objectives:

1.1.1.1 The objective is to provide Type C A-E services in accordance with ANGETL 24-02, Air National Guard Design Objectives and Procedures, for project WAAR209001 Install Base Microgrid. The tasks required in Type C services include, but are not limited to:

- Provide responses to Pre-Proposal Inquiries, Pre-Bid Inquiries, and Requests for Information from the construction contractor.
- Address change orders by providing updated proposed change sheets, cost estimates, drawings, and specifications.
- Provide record drawings and commissioning report(s) upon completion of construction.
- Perform construction inspections as required to effectively provide services.

Background: The scope of the project is to install a 1,000-kilowatt (kW) / minimum 1,000-kilowatt-hour (kWh)battery energy storage system (BESS), two 500 kW natural gas generators, and a 599-kW photovoltaic (PV) system. This installation will provide resilient power for essential mission functions, ensuring energy resilience to 24/7 MQ-9 Reaper operations and intelligence missions (including geospatial intelligence, space ground infrastructure analysis, electronic intelligence, and foreign material exploitation) in the event of commercial grid power loss. When connected to the grid, the PV array will provide electrical power and energy to the base, lowering electrical purchase requirements and thereby saving the base money. The natural gas generators and BESS will have the capability to provide base-wide peak power to ensure the substation operates at safe levels. The design allows the installation to island/disconnect from the utility for a minimum of 1 hour on the battery alone, but when combined with the natural gas generators and solar array, standby power could continue for weeks depending on the weather.

1.2 **Period of Performance:** The Period of Performance shall be **15** months.

1.3 **General Information:**

1.3.1 Quality Assurance (QA): The Government will evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan (QASP). This plan is primarily focused on what the Government will do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied,

the frequency of surveillance, and acceptable quality level(s) or defect rate(s).

1.3.2 Data Rights: The Government has unlimited rights to all data deliverables under this contract.

1.3.3 Location and Facility Information: The design work is for the 178th Civil Engineer Squadron, Springfield-Beckley ANG Base, Springfield, OH. The hours of operations for the primary entry control facility (Main Gate) is 24 hours/day, 7 days/week. Most sections of the base operate Monday – Friday 0700-1630, but some areas on base operate 24 hours/day, 7 days/week.

1.3.4 Access and General Protection/Security Policy and Procedures:

1.3.4.1 The contractor may access the base between the hours of **0730 – 1600** Monday through Friday, recognized U.S. holidays (see below) or when the Government facility/installation is closed due to local or national emergencies, administrative closings, or similar Government-directed facility/installation closings.

1.3.4.1.1 New Year's Day
1.3.4.1.2 Martin Luther King Jr.'s Birthday
1.3.4.1.3 President's Day
1.3.4.1.4 Memorial Day
1.3.4.1.5 Juneteenth
1.3.4.1.6 Independence Day
1.3.4.1.7 Labor Day
1.3.4.1.8 Columbus Day
1.3.4.1.9 Veteran's Day
1.3.4.1.10 Thanksgiving Day
1.3.4.1.11 Christmas Day

1.3.4.2 Unscheduled gate closures by Security Forces may occur at any time causing all personnel entering or exiting a closed installation to experience a delay. This cannot be predicted or prevented. Contractors are not compensated for unexpected closures or delays. Vehicles operated by contractor personnel are subject to search pursuant to applicable regulations. Any moving violation of any applicable motor vehicle regulation may result in the termination of the contractor employee's installation driving privileges.

1.3.4.3 Contractor employees should only enter restricted areas when required to do so. They must gain prior approval and be escorted by base personnel at all times in these areas.

1.3.4.4 The Government reserves the right to direct the removal of an employee from Government property or revoke access to Government systems for misconduct, security reasons, or any overt evidence of communicable disease. Removal of contractor employees for reasons stated above does not relieve the Contractor from responsibility for total performance of this contract.

1.3.4.5 The contractor shall comply with all applicable installation/facility access and local security policies and procedures, which may be obtained from the Contracting Officer's Representative (COR). A security briefing will be conducted prior to the start of the contract. The contractor shall also provide all information required for background checks to meet installation access requirements to be accomplished by the local installation's Security Forces office.

1.3.4.6 The contractor shall obtain base identification and vehicle passes, for all contractor personnel who make frequent visits to or perform work on the Air Force installation(s) cited in the contract. If the Contractor requires unescorted access, the Contractor shall provide appropriate personal information for the Visitor Request Form (Wing Form 128) two weeks prior to start of work. Contractor personnel are required to wear or prominently display installation identification badges or contractor-furnished, contractor identification badges while visiting or performing work on the installation. Base Pass procedures will be delivered to the A-E selected.

1.3.4.7 The contractor shall ensure compliance with all personal identity verification requirements as directed by Security Forces and/or local policy. All Contractor personnel shall always have a minimum of one (1) form of photo identification with them. Should the Force Protection Condition (FPCON) change, the Government may require changes in contractor security matters or processes.

1.3.4.8 All deliveries shall be coordinated with the Government Representative to arrange for their entrance onto Base property.

2.0 DEFINITIONS AND ACRONYMS

2.1 Definitions:

2.1.1 Contractor: A supplier or vendor awarded a contract to provide specific supplies or service to the Government. The term used in this contract refers to the prime contractor.

2.1.2 Defective Service: A service output that does not meet the standard of performance associated with the PWS.

2.1.3 Deliverable: Anything that can be physically delivered and includes non-manufactured things such as meeting minutes or reports.

2.1.4 Key Personnel: Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

2.1.5 Physical Security: Actions that prevent the loss or damage of Government property.

2.1.6 Quality Assurance: The Government procedures to verify that services being performed by the Contractor are performed according to acceptable standards.

2.1.7 Quality Assurance Surveillance Plan (QASP): An organized written document specifying the surveillance methodology to be used for surveillance of contractor performance.

2.1.8 Quality Control: All necessary measures taken by the Contractor to ensure that the quality of an end product or service shall meet contract requirements.

2.1.9 Subcontractor: One that enters into a contract with a prime contractor. The Government does

not have privity of contract with the subcontractor.

2.2 <u>Acronyms</u>:

A-E	Architect-Engineer
ANGETL	Air National Guard Engineering Technical Letter
ANGI	Air National Guard Instruction
AP	Advanced Planning
COA	Course of Action
COR	Contracting Officer Representative
DD	Department of Defense (Form)
DoD	Department of Defense
ECF	Entry Control Facility
FPSON	Force Protection Condition
GFP/M/E/S	Government Furnished Property/Material/Equipment/Services
ID	Identification
KO	Contracting Officer
MILCON	Military Construction
NGB	National Guard Bureau
PCR	Planning Charrette Report
PWS	Performance Work Statement
QA	Quality Assurance
QASP	Quality Assurance Surveillance Plan
UFC	Unified Facility Criteria
UMMC	Unspecified Minor Military Construction

3.0 GOVERNMENT FURNISHED EQUIPMENT, MATERIALS, PROPERTY (GFE/M/P)

3.1 The Government will provide the property, material, equipment, and/or services listed below solely for the purpose of performance under this contract:

3.1.1 Materials: As-Built drawings and files are numerous, and will be provided electronically to the A-E upon selection and award of contract. Existing as-built information may be inaccurate. It is the A-E's responsibility to research all archive files found in the Base Civil Engineer's records in order to develop the best as-built information possible. Additionally, it is the A-E's responsibility to conduct thorough investigation of the facility and the associated grounds and utilities to determine completeness and accuracy of the as-built drawings. Investigations shall generally be visual, using ladders, lifts and other methods to gain access to and visually inspect / inventory all areas of the building. It is not expected that investigations be intrusive (other than items like opening a grill or lifting ceiling tiles) or require demolition (with exception of items such as environmental sampling, structural and seismic code conformance, and geotechnical investigation). Where record drawings are found to be incorrect, the A-E shall develop accurate as- built drawings to the extent necessary for the A-E to provide a complete set of plans and specifications.

3.1.2 Equipment: There will be no Government Furnished Equipment as part of this project.

3.1.3 Property: Existing utilities, and facilities are all on government property and will be furnished to work on as part of the project. Buildings include, but may not be limited to Buildings 118, 122, 146, 150, 151, and 166.

4.0 REQUIREMENTS

4.1 The contractor shall follow all applicable Department of Defense (DoD), U.S. Air Force, federal, state, local codes, regulations, and design standards. These can also be provided electronically to the A-E upon selection and award of contract. They shall include, but are not limited to:

4.1.1 Air National Guard Engineering Technical Letter (ANGETL) 24-02, Air National Guard Design Objectives and Procedures (Tab C)
4.1.2 ANGETL 12-05, Design and Construction Handbook
4.1.3 ANGETL 15-01, Air National Guard Design Policy
4.1.4 ANGETL 15-01-01, Sustainable Design, Development, and Resource Conservation
4.1.5 ANGETL 15-01-02, SCIF and Anti-terrorism Force Protection
4.1.6 ANGETL 15-01-04, Mechanical Engineering
4.1.7 ANGETL 15-01-05, Electrical and Communications
4.1.8 ANGETL 15-01-08, ANG Generators
4.1.9 ANGETL 16-02, Design and Construction Reports
4.1.10 ANGETL 16-03, Design Meetings and Presentations
4.1.11 Unified Facility Criteria (UFC) 1-200-01, DOD Building Code
4.1.12 UFC 1-200-02, High Performance and Sustainable Building Requirements
4.1.13 UFC 3-201-01 Civil Engineering
4.1.14 UFC 3-410-02 Direct Digital Control for HVAC and Other Building Control Systems, with Change 2
4.1.15 UFC 3-501-01, Electrical Engineering, with Change 1
4.1.16 UFC 3-540-01, Engine-Driven Generator Systems for Prime and Standby Power Applications, with Change 2
4.1.17 UFC 3-540-08, Utility-Scale Renewable Energy Systems
4.1.18 UFC 3-550-01, Exterior Electrical Power Distribution, with Change 3
4.1.19 UFC 3-575-01 Lightning and Static Electricity Protection Systems, with Change 1
4.1.20 UFC 4-010-01, DoD Minimum Antiterrorism Standards for Buildings, with Change 2
4.1.21 All other applicable UFCs, Federal, State and Local codes and regulations

4.2 The contractor shall provide A-E services utilizing ANGETL 24-02, Air National Guard Design Objectives and Procedures (Tab C) Type C Services. These A-E services shall support construction requirements and oversight. These services shall include, but are not limited to the following:

4.2.1 Provide thorough responses to Pre-Proposal Inquiries, Pre-Bid Inquiries, and Requests for Information from the construction contractor within 14 days of receipt.

4.2.2 Provide on-site inspection services as required to ensure best/safe construction practices and accurately address the items in 4.2.1.

4.2.3 Address change orders by providing updated proposed change sheets and updated cost estimates, drawings, and specifications.

4.2.4 Provide record drawings and commissioning reports(s) upon completion of construction.

4.2.5 Analyze existing data and studies for the proposed project area.

4.2.6 As required, conduct surveys/studies, to include:

4.2.6.1 Topographic surveys
4.2.6.2 Aerial surveys
4.2.6.3 Environmental analysis
4.2.6.4 Utility services, including hydrant flow tests
4.2.6.5 Soil borings, test reports and analysis
4.2.6.6 Other fact-finding investigations, such as, determination of permitting requirements, clarifying user requirements, and economic feasibility studies

5.0 DELIVERABLES SCHEDULE & MILESTONES

5.1 All required deliverables are also listed in Section 4 of this PWS.

Table 1. Deliverables

PWS Reference / Deliverable Title	Frequency	Number of Copies	Medium/Format	Submit To
4.2.4 Record Drawings	Upon completion of construction	1	(1) Electronic Submission (1) Hard Copy, 24" x 36"	COR
4.2.4 Commissioning Report(s)	Upon completion of construction	1	(1) Electronic Submission	COR

6.0 Antiterrorism (AT) / Operations Security (OPSEC) Requirements