

## **STATEMENT OF PROJECT OBJECTIVES (SOPO)**

### **Automation and Topology Advancements in America's Most Forested State**

#### **A. OBJECTIVES**

The Recipient will directly address DE-FOA-0002740 Topic Area 2; Smart Grid Grants eligible uses by deploying and catalyzing technology solutions that increase the flexibility, efficiency, reliability, and resilience of the electric power system. The proposed project will implement Smart Grid technologies including Advanced Grid Restoration (AGR) and Sequential Reclosing (SR), designed to reduce the frequency and impact of outages to the communities served and maximize benefits to disadvantaged communities (DACs). Specifically, the program will:

- Contain and reduce outages resulting from extreme events
- Advance the ability to reduce restoration times from such outages
- Enhance planning activities by increasing load sensing capabilities
- Facilitate the safe operation, extend generation uptime, and increase penetration of Distributed Energy Resources (DERs)
- Reduce risks to health and safety of the affected community

#### **B. SCOPE OF WORK**

The Scope of Work planned includes tasks to address:

- Distribution Automation Program incorporating "self-healing" technologies resulting in a reduction of both the quantity of customers that experience outages and the duration those customers lose power
- Comprehensive area studies to increase the capacity of transmission facilities or the capability of the transmission system to reliably transfer increased amounts of electric energy and allow for integration of renewable energy resources at the transmission and distribution levels
- Substation studies to facilitate the aggregation and integration of electric vehicles and other grid-edge devices or electrified loads
- Transmission SCADA Switch Program to prevent faults that may lead to wildfires or other system disturbances

#### **C. TASKS TO BE PERFORMED**

##### **Task 1.0: Project Management and Planning**

###### **Subtask 1.1 – Project Management Plan (PMP):**

Within 30 days of award, the Recipient shall submit a Project Management Plan (PMP) to the designated Federal Project Officer (FPO). The Recipient shall not proceed beyond Task 1.0 until the PMP has been accepted by the FPO.

The PMP shall be revised and resubmitted as often as necessary, during the course of the project, to capture any major/significant changes to the planned approach, budget, key personnel, major resources, etc.

The Recipient shall manage and direct the project in accordance with the accepted PMP

to meet all technical, schedule and budget objectives and requirements. The Recipient will coordinate activities to effectively accomplish the work. The Recipient will ensure that project plans, results, and decisions are appropriately documented, and that project reporting and briefing requirements are satisfied.

**Subtask 1.2: National Environmental Policy Act (NEPA) Compliance**

As required, the Recipient shall provide the documentation necessary for NEPA compliance.

**Subtask 1.3: Cybersecurity Plan (CSP)\***

The CSP shall be revised and resubmitted as often as necessary, during the course of the project, to capture any major/significant changes.

**Subtask 1.4: Continuation Briefing(s):**

The Recipient will brief DOE on roughly an annual basis to explain the plans, progress and results of the technical effort. The briefing shall also describe performance relative to project success criteria, milestones, and the Go/No-Go Decision point that are documented in the Project Management Plan (PMP).

**Task 2.0 – Smart Grid Tasks**

**Subtask 2.1 – Zone 1 Smart Grid Project - CMP Distribution Automation Program**

The Recipient will conduct procurement, construction, commissioning and close out activities necessary for integration of smart grid capabilities in accordance with the detailed design.

**Subtask 2.1.1 - Conceptual Design**

The Recipient will conduct conceptual design tasks necessary for integration of smart grid capabilities into the portfolio of selected sites.

**Subtask 2.1.2 - Detailed Design**

The Recipient will solicit for contactors and conduct detailed design tasks necessary for integration of smart grid capabilities into the portfolio of selected sites.

**Subtask 2.1.3 - Long lead Materials Procurement**

The Recipient will initiate long lead procurement under the Buy America Act for Reclosers, Switches, Communications Equipment, Wood Poles, Framing, Insulators, Arrestors, Wire and Transformers in addition to any other items identified as greater than 24 weeks lead time.

**Subtask 2.1.4 – Procurement for Construction**

The Recipient will solicit for contactors to conduct construction tasks necessary for integration of smart grid capabilities into the portfolio of selected sites.

**Subtask 2.1.5 – Construction**

The Recipient will construct the portfolio of selected sites defined in the detailed design

managing project scope, schedule, budget, quality, and measure performance following the change process.

#### **Subtask 2.1.6 – Commissioning and Close Out**

Upon completion of construction, the improvements will be commissioned into use. Close out activities will be conducted to document and close out each project.

### **D. DELIVERABLES**

*The Recipient shall include a list of deliverables that will be submitted during the project.*

Subtask 1.1 – Project Management Plan

Subtask 1.2 – NEPA Compliance Summary Report

Subtask 1.3 – Cybersecurity Plan

Subtask 1.4 – Pre-Continuation Briefing Document(s)

Subtask 2.1.1 – Conceptual Design Summary Report, CMP Distribution Automation Program

Subtask 2.1.2 – Detailed Design Summary Report, CMP Distribution Automation Program

Subtask 2.1.3 – Long Lead Procurement Plan and Status Report, CMP Distribution Automation Program

Subtask 2.1.4 – Procurement Selection for Construction Report, CMP Distribution Automation Program

Subtask 2.1.5 – Completion of Construction, CMP Distribution Automation Program

Subtask 2.1.6 – Commissioning and Closeout Report, CMP Distribution Automation Program

*List additional deliverables as appropriate including any documents that will be delivered to DOE.*

In addition to the deliverables listed above, the Recipient shall submit all periodic, topical, final, and other reports in accordance with the Federal Assistance Reporting Checklist and accompanying instructions.

### **E. BRIEFINGS/TECHNICAL PRESENTATIONS**

The Recipient shall prepare, and present periodic briefings, technical presentations and demonstrations as requested by the Federal Project Officer, which may be held at a DOE or the Recipient's facility, other mutually agreeable location, or via webinar. Such meetings may include all or a combination of the following:

**Kickoff Briefing** - Not more than 30 days after submission of the Project Management Plan, the Recipient shall prepare and present a project summary briefing as part of a Project Kickoff Meeting.

**Pre-Continuation Briefing** - Not less than 90 days prior to the planned start of a budget period, the Recipient shall brief the DOE on the results to date, and their plans for the subsequent periods of work. The DOE will consider the information from this briefing, as well as the content of deliverables submitted to date, prior to authorizing continuing the project.

**Final Project Briefing** - Not less than 30 days prior to the end of the project, the Recipient shall

prepare and present a Final Project Briefing on the results and accomplishments of the entire project.

**Other Briefings** – The Recipient shall prepare and present technical, financial, and/or administrative briefings as requested by the DOE. Additionally, the DOE may require Recipients to make technical presentations at national and/or industry conferences.