

## **Mecca North Shore Resiliency Project (No. 2.00335)**

### **Project Scope Description**

The Project utilizes mitigation techniques to improve distribution system reliability via protective devices (reclosers/fuses) and switching devices, system reconfiguration, feeder reconductoring, and integration of distributed generation and consists of:

Phase 1. Upgrade existing poles and install new poles for a total of approximately 40 wood poles, 397.5 All-Aluminum Conductor will be used to retrofit about 7,240 feet of existing overhead distribution line (made up of several types of small conductors) and construct a 2,000 feet distribution line extension to form a new backbone backup tie with a neighboring circuit and substation.

Phase 2. Install a new circuit breaker, along with the necessary devices and hardware, at the North Shore Substation. Although the phase does not include the construction of any new substation, there will be modifications to an existing substation. Furthermore, the line will be extended by 300 feet to balance the loading and split customers, and an overhead switch and power pole will also be put in place.

Phase 3. Retrofit the single-phase pole line to three phases, split customers, and balance loading among three phases. Install 2,400 feet of overhead line across seven existing power poles and additional line fuses protecting single-phase lines: upgrade poles, cross arms, insulators, and hardware.