

## **Final Technical Report**

**DOE Award Number:** DE-OE0000482

**Recipient:** The Utilities Board of the City of Foley, AL

**Project Title:** Western Baldwin County, AL Grid Interconnection Project

**Project Director:** Thomas L. DeBell

**Reporting Period:** Final

### **A. Goals and Objectives**

The Objective of this Project was to provide an additional supply of electricity to the affected portions of Baldwin County, AL through the purchase, installation, and operation of certain substation equipment. The goals of the project are listed below, along with timeframes of completion. The goals and objectives of this project have, and will continue to be met and provide benefit to the service area after the official closing date of the project.

The project goals were identified as follows;

- ✓ Purchase, install, energize substation equipment – Oct 2010
- ✓ Operation, maintenance, and initial loading – Dec 2010
- ✓ Continued O&M, 2<sup>nd</sup> phase of loading – March 2011
- ✓ Continued O&M, 3<sup>rd</sup> phase of loading – June 2011
- ✓ Monitoring, continued O&M, closeout reporting – Sep 2011

Over the 12-month course of the project (October 2010 – September 2011), crews performed standard monthly inspections and maintenance processes, and recorded data from the equipment. Total energy delivered through the substation during this project totaled 33,971 MWh, with a maximum monthly peak demand of 8,295 kW as registered in January 2011. Load continues to be added to the substation, providing much needed electrical capacity and reliability to the area. Monthly substation inspections over the course of the project showed that the equipment functioned without incident or event.

Over 1,500 customers were being served from this substation as of the end of the project period, including a major commercial/retail development. The removal of this load from the other substations improved both capacity and reliability for the area, and created some diversity in the source of electrical power supply. The increased reliability helps the commercial

and retail customers in the area to be more productive, and thereby keep some stability in the economic situation. A more reliable supply of energy helps in the economic development of the area, as seen by the continued construction in the commercial and retail developments.

## **B. Costs**

The costs for this project came entirely from the procurement of the substation equipment listed in forms PMC\_123.1 and SF\_424. The project budget did not include any ongoing or recurring costs. Therefore, as of the close of this reporting period, all listed costs have been incurred and paid.

## **C. Schedule Status**

As mentioned above in Part A, the Project was completed on schedule, with all milestones having been met. The final loading of the substation, as defined in this project, was completed by the end of September 2011.

## **D. Changes, Problems, Delays**

There were no problems or delays reported with the operation or maintenance of this substation during the project period. The substation continues to operate without incident even after the close of the project.

For The Utilities Board of the City of Foley, AL

Submitted by: Thomas L. DeBell

Thomas L. DeBell

Title: Electric Department Manager