



Large U.S. Military Complex Critical Substation Control Project

Client: Classified

Location: Classified



System Features

- DYNAC®
- Fiber Optics
- RTUs
- Power monitors



The SCADA system for a large U.S. Military complex is designed to monitor and control critical electrical power distribution substations. The primary objectives are to reduce operations and maintenance costs, improve power reliability and quality, and to monitor and control two power generation plants located on the campus. The system is designed to optimize the shedding of non-critical loads in the event of any main power feed failure.

The scope of work includes providing detailed design, applications engineering, systems integration, testing, training and installation. The system is managed by Transdyn's DYNAC® control software and is configured for power monitoring and control applications.

The SCADA system consists of dual redundant servers communicating via a redundant fiber optic counter-rotating ring topology data highway to redundant RTUs located at substations throughout the facility. Workstations are located at the main control center and at various remote locations. A GPS-generated IRIG-B timing signal is provided to synchronize the RTU clocks for sequence of event recording purposes. Intelligent power monitors are installed and used for the metering of individual switchgear circuit breakers, which communicate information to the local RTUs and back to the main control center for power quality analysis.