Field Facts

Utilities Save Time and Money with Substation Relay and Control Enclosures

A fully integrated PanelShelter relay and control enclosure is delivered by truck

The relay and control enclosure is placed on piers

KVA relay panels come already installed, prewired and tested

The ***Problem*** for a large utility was how to rapidly deploy updated protection and control systems at new and existing substations.

New relay panels, combined with SCADA systems and communications equipment, with battery back-up needed to be deployed quickly and efficiently. The utility needed to reduce jobsite installation and field wiring time in addition to providing a highly reliable, pre-tested package.

The ***Solution*** was supplied by a KVA Inc. PanelShelter™ custom pre-built drop-in control building that was delivered to site. Having a pre-wired, pre-tested control building made up ahead of time significantly decreases the utility's time for deployment at each substation. The AC and DC power and panel-to-panel wiring was already complete and tested, prior to shipment.

Control buildings are available in a variety of sizes. In this instance, the utility added room for future requirements and the control house was 14 feet wide and 50 feet long.

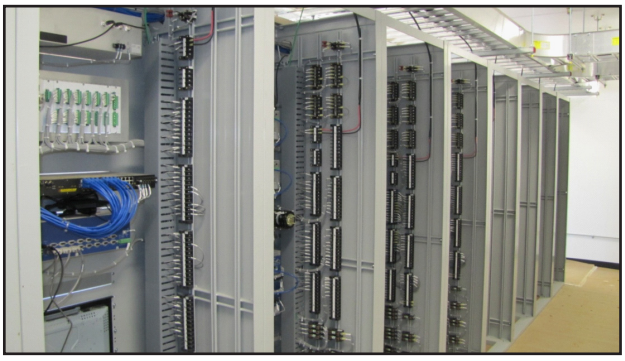
For a foundation, piers were selected, as opposed to a concrete slab, which was also an option.

The US RDA Rural Utilities Service cites the following benefits from this alternative approach to constructing a substation;

- Overall Lower Cost
- 50% Reduction in construction time
- Reduction in required land for installation
- Maximized safety and security
- Designed to meet City, State and County requirements

Pre-installed equipment includes batteries and chargers, HVAC, lighting, cable tray, transfer switches, AC and DC panels and more.

A concrete slab foundation was used in this application



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