



Field Facts

Utility Finds Big Savings in Rapid Transformer Changeout



550 kV Transformer Line-Up



Preparing to Remove the Bushings



Transformer Bushings are Removed

The **Problem** for a large utility was how to disassemble and ship a huge 550kV, 278,000lb. single phase transformer within just a few weeks. If they missed the scheduled delivery date to the factory, it would cost hundreds of thousands of dollars extra.

The **Solution** was supplied by KVA Inc. and their team of substation maintenance and construction specialists.

The transformer had previously failed and was moved into the spare position. When an opening for coil rewinding became available at the repair facility several hundreds of miles away, the utility had just a month to get it there.

KVA was called in and they quickly received approval from the Transmission Control Center and Service Technician clearance, on short notice. A step-by-step approach addressed each major element;

- Clear transformer and disconnect control wiring
- Oil removal
- Disconnect and remove bus
- Radiators and bushings removed
- Transformer top was cut off
- A shipping cover was temporarily welded into place

A crane and riggers were then scheduled to move the transformer and apparatus to a waiting rail car. With the help of the KVA team the deadline was met, without any additional costs or delays.



Crating Bushings for Storage



Removing the Top of the Transformer



Transformer with Top Removed



A Shipping Cover is Attached

Utilities rely on KVA to bring the expertise, equipment and personnel to successfully complete their transmission and distribution projects. Our experienced teams provide a wide variety of services from maintaining and installing large apparatus, to on-site relay systems integration. KVA Incorporated is a member of Scope Services Inc.

