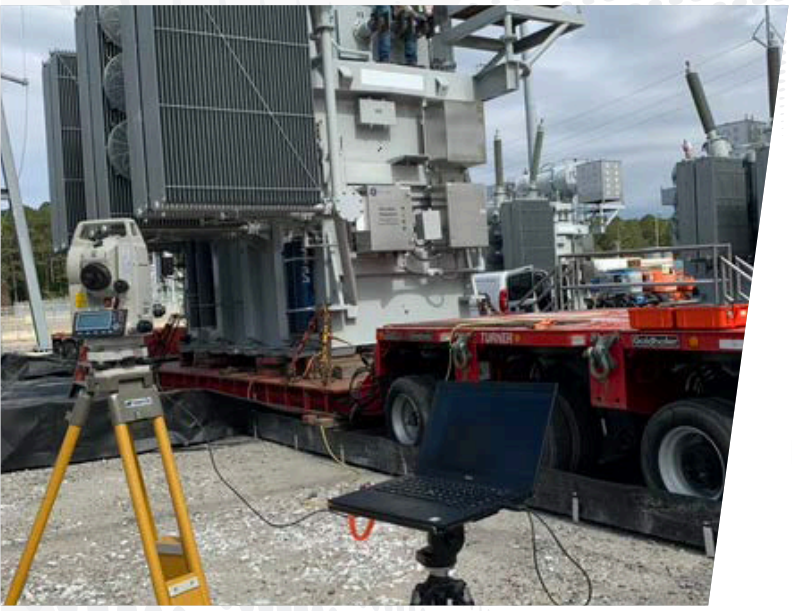
RCI ENERGY SERVICES

PROFESSIONAL • RESPONSIVE • RESULTS

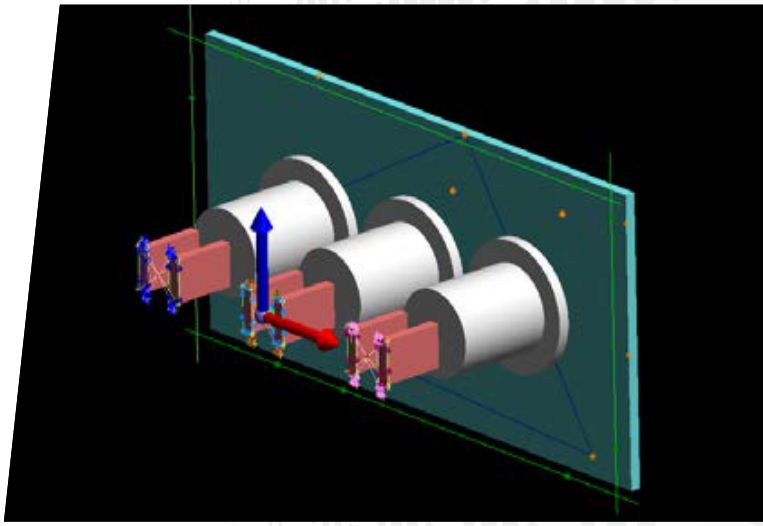
HIGH VOLTAGE TRANSFORMER ALIGNMENT

RCI METROLOGY DIVISION



PROBLEM

Periodically, transformers in the utility industry require replacement or refurbishment. This transformer was being replaced at a nuclear power plant and a precise alignment was required due to the rigid, existing connection of the Y-bushing from transformer to power plant. Additionally, the new transformer was not an exact copy of the previous one. With this piece of equipment being critical to power generation and transmission, this task had to be completed in a short time frame during a planned outage, leaving little to no time for rework.



SOLUTION

Before the outage, measurements were taken for the new transformer's Y-bushings, along with fixed control points for installation assistance. During the outage, measurements were taken of the Y-bushings on the current transformer before it was removed from its operational position. These two measurements were overlaid in our software. With the old and new bushings aligned in the software, the fixed control points on the new transformer were used to guide the new transformer into place utilizing a laser tracker. This allowed us to acheive a placement accuracy of 0.0625".

THE RCI ADVANTAGE

We Offer More Than Just a Plan

When you're on a tight timeline, having extra assurances can be crucial. With our proven processes and precision equipment, we can help give your team those assurances that systems will be restored to their previous state efficiently and reliably.

Protecting Your Budget

Moving such large, sensitive equipment typically requires a skilled and costly crew. Cut your project costs by utilizing our methods to reduce rework and in turn, reduce the time you have to have another crew on site.

CONTACT

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