

from the Waukesha Service

CASE STUDY FILE



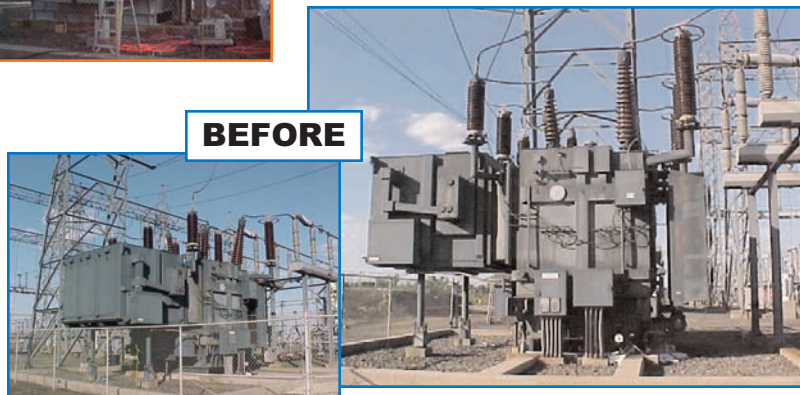
300 MVA Auto-Transformer Refurbishment for Utility in Newark, New Jersey

PROJECT SCOPE:

Complete refurbishment of 300 MVA 230kV–138kV auto transformer with a UTH load tap changer and three oil compartments: transformer, selector switch and tap changer. All work was to be completed while the transformer was out of service for approximately five weeks.

PROJECT DETAILS:

- Furnish and replace the following components:
 - 4 - Galvanized Unifin Coolers/Fans
 - 3 - 230kV Bushings
 - 3 - 138kV Bushings
 - 4 - Cooling Pumps
 - 8 - Flapper Cooling Valves
 - 1 - Auto Recharging Dehydrating Breather
- ALL devices including LLG, PRD, PVD, all temperature gauges, ball valves, fan and pump power and control wires, conduits and components
- Regasket all transformer openings; supply and field cut all gaskets
- Paint entire transformer
- Perform inspection of the UTH LTC; replace all gaskets
- Replace oil in the LTC
- Internal inspection
- Rewedging of coils
- Fullers Earth oil reconditioning
- Complete dryout and vacuum processing



KEY ISSUES & SOLUTIONS:

Waukesha Service bid competitively to provide the refurbishment services requested. The proposal took three weeks to prepare, in-depth details of our scope and methods were discussed and Waukesha was awarded the project after participating in a series of technical interviews and offering several value engineering options.

PROJECT WAS COMPLETED ON-TIME AND ON-BUDGET.



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