

CASE STUDY

# 300 MVA Auto Transformer Refurbishment for Utility in Newark, NJ

**PROJECT SCOPE**

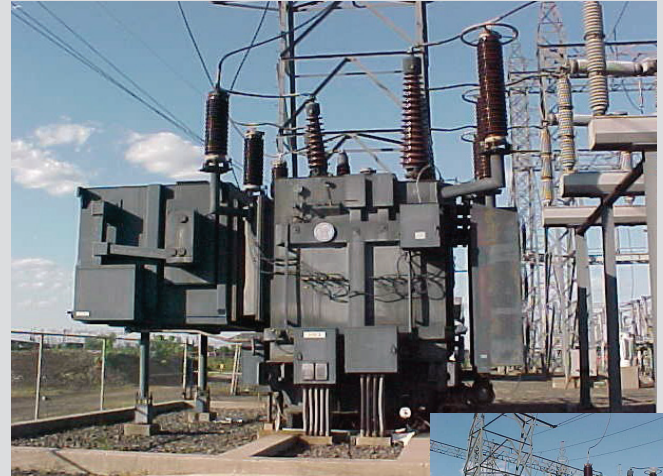
Complete refurbishment of 300 MVA 230kV-138kV auto transformer with a UTH load tap changer and three oil compartments: transformer, selector switch and tap changer. All work was to be completed while the transformer was out of service for approximately five weeks.

**PROJECT DETAILS**

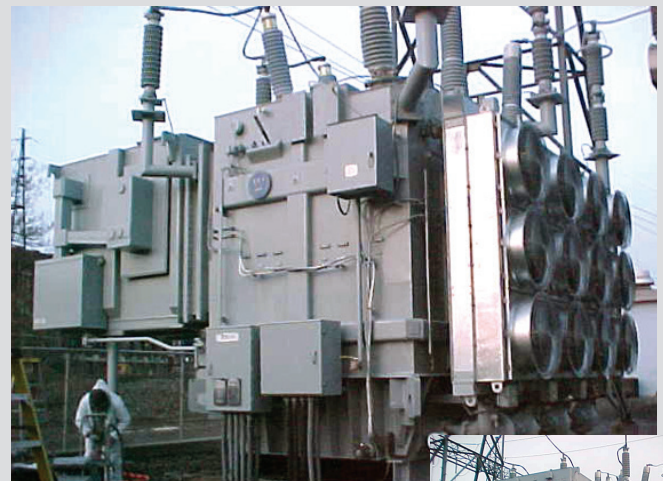
- Furnish and replace the following components:
  - 4 - Galvanized Unifin Coolers/Fans
  - 3 - 230kV Bushings
  - 3 - 138kV Bushings
  - 4 - Cooling Pumps
  - 8 - Flapper Cooling Valves
  - 1 - Auto Recharging Dehydrating Breather
- ALL devices including LLG, PRD, PVD, all temperature gauges, ball valves, 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
- Re-wedging of coils
- Fullers Earth oil reclamation
- Complete dryout and vacuum processing

**KEY ISSUES & SOLUTIONS**

SPX Transformer Solutions' service team bid competitively to provide the refurbishment services requested. Proposal took three weeks to prepare, in-depth details of our scope and methods were discussed and the team was awarded the project after participating in a series of technical interviews and offering several value engineering options.



BEFORE



AFTER



Project was completed on-time and within budget



**LOCATION**

Prolec-GE Waukesha, Inc.  
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Goldsboro, NC 27530  
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