



SIEMENS

Ingenuity for life

Transformer field services

Service solutions for your T&D infrastructure



In addition to being a global technology leader in transformer manufacturing, Siemens provides installation and aftermarket services on large power transformers through our U.S.-based transformer services group.

We provide a factory-trained project engineer and an experienced crew committed to supplying you with

complete life-cycle services from equipment installation to maintenance and ultimately replacement.

Typical services provided

- Turnkey installation and replacement
- Assembly, vacuum oil fill and testing
- Bushing and cooler changeouts
- Relocation
- Regasketing, leak repair
- Oil filtration and refurbishment
- Load tap changer maintenance
- Condition assessment
- Monitoring systems
- Spare parts management

State-of-the-art equipment

Our processors can efficiently and competitively handle units 765kV or greater. Transformer oil passed through our processors meets most OEM's specifications with one pass.

- Baron's vacuum oil purifier/degasification trailers equipped with 171 CFM tandem vacuum pumps with AOV isolation
- 30 GPM oil filtration with full degassing capabilities
- 350 kW auxiliary power
- Total gas content monitor
- 192 kW heater system
- Two oil filtration systems
- Hydro-bloc dry air system
- Oil testing capabilities on trailer

Customer benefits

- Single source supplier with no third parties to coordinate
- Augment your in-house service capabilities
- Comprehensive project management with access to OEM engineering departments
- Most advanced equipment available
- Improved transformer reliability and performance

Transformer installation

We provide an experienced project engineer and field crew for our installation projects. Our crews work to stringent procedures for installation, oil filling and testing in-line with the following:

- Approval inspection of the transformer and inventory of all the components detached for shipment
- Assembly and preliminary testing in preparation for oil filling:
 - Ratio and polarity of current transformers
 - Bushing power factor and capacitance
 - Core ground resistance test
 - Ultrasonic leak detection of tank and fittings
 - Positive pressure leak test
 - Vacuum leak rate test
- Transformer processing and oil-filling per Siemens or customer specific procedures and standards
- Final approval testing to include a complete assessment of the transformer and transformer oil:
 - Transformer turns ratio
 - Insulation power factor
 - Insulation resistance of both windings and core
 - Functional testing of all protection and control circuits
 - Oil dielectric strength – ASTM D1816 & ASTM D877
 - Oil moisture content – ASTM D1533
 - Oil total gas content – ASTM D2945
 - Interfacial tension – ASTM D971
 - Acidity/neutralization number – ASTM D974
 - Frequency response analysis (if required)



Transformer oil processing



Installation of a 230kV bushing



Installation of a cooling system

Siemens Industry, Inc.

7000 Siemens Road
Wendell, NC 27591

For more information, please contact
our Customer Support Center.

Phone: 1-800-333-7421

usa.siemens.com

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