



The Commitment Company
ISO 9001

VIRGINIA TRANSFORMER CORP.

220 GLADE VIEW DRIVE • ROANOKE, VA 24012

PHONE 540-345-9892 • FAX 540-342-7694

www.vatransformer.com

TRANSFORMER INSTALLATION DESCRIPTIONS

Described below are brief descriptions of VTC Field Service Installation Options; please consult your VTC Sales person for additional details and pricing.

Supervision only

VTC supplies an on-site field technician to supervise the assembly of the transformer by others and to verify the work is performed correctly. Others supply all crane, assembly and test equipment. Technician to be at site up to three days.

Installation (make-up oil for radiators only)

VTC supplies an installation crew to install bushings, radiators, arresters, etc. The unit will be shipped filled with oil so the only oil handling will be the oil required to fill the radiators after they are mounted. The oil is shipped from the plant with other detail parts. This operation will require the use of an oil pump and filter. Included in the cost is a small crane to handle the components to install plus the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Installation (complete oil fill)

VTC supplies installation crew to install bushings, radiators, arresters, etc. The unit is shipped drained of oil so will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost is a small crane to handle the components to install and the oil handling equipment. The following test will be performed TTR, DCR, DGA, CT Ratio, Core Ground Megger, and Transformer Megger. We will perform Power Factor on units above 69KV.

Crane Service

The crane cost is required if the scope of the work requires a crane to offload the transformer from the truck to the pad. This crane is seldom used to install the components on the job.

Transformer units with Conservator having Air Bladder

VTC supplies installation crew to install conservator, conservator, bracing, etc. If the unit is shipped drained of oil we will require a complete filling in the field. The oil is usually delivered to the site in a tanker truck and filled from the truck. This operation will normally require the use of a vacuum pump, oil pump and filter, and if required oil heating capability for larger voltage class units. Included in the cost are a small crane to handle the components to be install and the oil handling equipment.

Hot Oil & Vacuum Processing

VTC offers hot oil processing. Our hot oil processing consists of heating the oil going to the transformer. We offer this on new installs. During vacuum processing VTC will apply a vacuum to the transformer. This is on transformers designed for full vacuum only. The vacuum level will be approximately 1 torr. This vacuum will be for 24hrs prior to oil filling.

Notes:

1. Pricing assumes clear and unobstructed ingress and egress around the work location. VTC will not be responsible for additional costs incurred for delays caused by unimproved sites that are unable to support vehicles and cranes on the scheduled days. VTC will not be responsible for relocating any obstructions to the work site nor for any improvements to allow access to the work site.
2. Crane costs assume unobstructed access to placement area without interference from walls, dykes, fences or substation structures. If obstructions exist, additional cost will possibly be incurred that will be passed along.
3. The customer is responsible for all transformer grounding and connections to bushings and external alarm and control wiring entering junction box.
4. Pricing is based on performing the work with VTC technicians or contracted services at VTC's choice. VTC's on site personnel are to have full and complete access to work on the equipment regardless of union contract rules.



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FIELD SERVICE INSTALLATION AND SERVICE ENGINEERING

DOMESTIC (US, CANADA & MEXICO)

Service Type	Straight-Time	Overtime & Saturdays	Sundays & Holidays	1-4 hours	5-8hours
Field Service Tech Hourly Rate	\$175	\$250	\$300	4 hours Minimum	8 hours Minimum
Engineering Service Hourly Rate	\$275	\$415	\$550	4 Hours Minimum	8 Hours Minimum

TRAVEL, LIVING AND INCIDENTAL EXPENSES are not included in any of the hourly rates and shall be billed at cost plus a handling charge of 15%. Rates exclude special tools and equipment.

TERMS OF PAYMENT are on an estimated basis: 100% in advance. Adjustments will be made upon presentation of invoice (within 10 days of invoice date). Interest is payable for late payment.

CALCULATION OF TIME RATES

STRAIGHT-TIME is defined as time worked on a regular schedule 8 hours between 7:00 am and 6:00 pm, Monday through Friday; or for time worked on any other agreed to schedule of 8 hours per day, Monday through Friday. Each hour of straight –time shall be paid for at the straight-time rate.

OVERTIME is defined as time worked in excess of or at times other than the regular straight-time schedule. Each hour of overtime shall be paid for at one and one-half times the straight-time rate, except that hours worked in excess of 16 per day, Monday through Friday, or in excess of 8 hours on Saturday, and hours worked on Sunday and Holidays shall be paid at two times the straight-time rate. A Holiday is any day observed by the purchaser as a Holiday in the place where the work is being performed.

STANDBY TIME is defined as time, up to 8 hours per day, Monday through Friday, during which the SERVICE TECHNICIAN, during the course of this agreement, is available for work but is not working due to circumstances beyond the control of Virginia Transformer Corp. Each hour of Standby Time shall be paid at the Straight-Time rate.

TRAVEL TIME is defined as the time spent by the SERVICE TECHNICIAN in traveling to the job site and returning, including travel occurring on Saturday, Sunday or Holidays. Time is calculated portal to portal. The rate charged for Travel Time is the same as the work rate.

TIME WORKED, TRAVEL TIME AND STANDBY TIME occurring on the same day will each be charged at the rates and within the limitations as foresaid.