

PROJECT HIGHLIGHT – POWER TRANSFORMER RELOCATION

PROJECT

Relocate a 10/15 MVA 63/8.66 kV power transformer for a BC Utility Company.

SCOPE OF WORK

Pre-testing, dismantling, transportation, re-assembly, vacuum oil filling, and final testing prior to return to service.

OVERVIEW

The first stage of the project was the transformer pre-testing, dismantling, and preparation for transport which included removal of the radiator, conservator, gas piping, bushings, and insulating oil. The transformer tank and tap changer cabinet were continuously purged and then pressurized with dry air for shipment. When landed at the new location, a thorough internal inspection of the windings and on-load tap changer were performed. The re-assembly included installation of the re-gasketed radiators, replacement of the primary and secondary bushings, and reinstallation of the conservator, piping, and mechanical seals. The transformer was then vacuum filled with new insulating oil. The final stage of the project was recommissioning the transformer which included insulation resistance, power factor insulation testing of the main windings and bushings, winding resistance on all tap positions, sweep frequency response analysis, and verification testing of all instruments and accessories.





Electrical Testing, Commissioning and Energy Management Specialists

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