

TRENCH DRY TYPE AIR CORE SHUNT REACTOR STATUS REPORT

EXECUTIVE SUMMARY:

Trench Shunt Reactor was the dry type, air-core; 66 kV/50 Hz.

Original Serial Number (Prior to repairing, and testing): 40173.
New Serial Number (after repairing, testing): 42602-01.

The reactor was located in Coquitlam, BC (near Vancouver).

Size: Fitted in a crate 363 X 363 X 396 cm high (i.e., approximately 11.9 X 11.9 X 12.99 Feet).
Wight: Approximately 27,000 Lb.

The Reactor in question was originally installed in Northern China, in a hydro electrical power generation facility for the Huaneng Int'l Power Development Corp., Dalian Branch, about three years ago.

In July 2000, the Reactor was shipped to Trench Factory in Toronto, Canada for servicing, and testing.

In August 2000, the Reactor was refurbished, and tested in Trench Factory in Toronto, Canada. Trench's test results were within the original specification. Therefore, the Reactor was shipped to Vancouver for transshipment to China to resume service.

Due to a slight truck accident, en route to China via Vancouver, BC, Canada, Trench asked Powertech in Surrey, BC (near Vancouver) to retest the Reactor. Subsequently, Powertech tested the Unit in October 2000.

I personally inspected the reactor on January 5, 2001. My findings were as follows:

1. The winding exhibited no physical damages, i.e., bends
2. Only one of the Bus Bars showed one minor bend
3. Other damages were limited to scratches of the exterior paint, which had been repaired.

I have compared, and evaluated the test data from Trench in Toronto, and Power Tech in Surrey. The comparison indicated value differences in ambient temperature, applied current, and frequency these likely affected the outcome of the tests, and subsequently the variation in the calculated values. Regardless, the conceived results of the tests, and subsequently the calculated values, were still

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within the original specifications.

Based on the foregoing, I have formed the following opinion:

In light of the original specifications, in conjunction with Powertech's test results, Trench Dry Type, Air Core, Shunt Reactor, with the New Serial Number 42602-01, described in Appendices "B" to "D" of this report, should function suitably, when installed at a facility that is complimentary with these test results.

OBJECT OF REPORT: