

BELZONA RECHARGES SHUNT REACTOR

ID: 4231



PROBLEM

During operation, the shunt reactor temperature can fluctuate significantly together with movement caused by vibration. The Shunt reactor had been discharging transformer oil for many years due to the difficulties in securing maintenance outages. Following a site survey, oil discharges were evident from the bushings and some inspection Hatches.

APPLICATION SITUATION

Shunt reactor 2, located inside the noise enclosure

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflet VPF-11. All if the bolt heads were tightened prior to the repair. After preparing the substrate, Belzona® 1291 and Belzona® 1221 were used to stem any active oil leaks. Flange joints were sealed by applying Belzona® 1161 incorporating Belzona® 9341 (Reinforcement Tape). The bolt and nut heads, together with the male studs were fully encapsulated using a disposable former containing Belzona® 1161. Once cured, the formers were removed and the prescribed repair areas were coated with Belzona® 5831.

BELZONA FACTS

The leak sealing project was successful in recharging the transformer with oil to the correct level inspection hatches. The bolt heads and bushing flanges showed no further visual signs of leaking. This resulted in significant cost savings and future ease of safe access for the client. The clients request that the studs be protected prior to full encapsulation of the bolt heads to allow access for any future dismantling process was also met.

INDUSTRY

Power

LOCATION

Electricity Substation, UK

APPLICATION DATE

May 2012

PRODUCTS

Belzona 1221 (Super E-Metal)
Belzona 1291 (ES-Metal)
Belzona 1161 (Super UW-Metal)
Belzona 5831 (ST-Barrier)

SUBSTRATE

Mild Steel

PHOTOS

1. Shunt reactor prior to application
2. Flange joints sealed using Belzona 1161
3. Encapsulation of bolt and nut heads
4. Repair areas coated with Belzona 5831

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