

BELZONA RECHARGES SHUNT REACTOR

ID: 4231

Industry: Power
Application: VPF-Valves, Pipes and Fittings
Substrate: Mild Steel
Products: * Belzona® 1221 (Super E-Metal) ,
* Belzona® 1291 (ES-Metal) ,
* Belzona® 1161 (Super UW-Metal) ,
* Belzona® 5831 (ST-Barrier) ,

Customer Location: Electricity Substation, UK
Application Date: May 2012

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.



Photograph Descriptions

- * Shunt reactor prior to application ,
- * Flange joints sealed using Belzona® 1161 ,
- * Encapsulation of bolt and nut heads ,
- * Repair areas coated with Belzona® 5831 ,

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.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

Belzona products are
manufactured under an ISO
9000 Registered Quality
Management System.

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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.

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