

BELZONA SOLVES CORROSION LEAKS ON TRANSFORMER LV TURRET

CUSTOMER

Electricity Substation, South Coast, UK

APPLICATION DATE

April 2012

APPLICATION SITUATION

Outage to Super Grid Transformer and inspection to all exterior HV & LV bushings sited to the Noise Enclosure roof area.

PROBLEM

Corrosion and oil discharges were observed to the LV Turrets which indicated through wall penetration, placing the asset at high risk of internal contamination. Upon removing bituminous membrane, exposed metal corrosion and active oil discharges from Turret were identified.

PRODUCTS

Belzona 1221 (Super E-Metal)
Belzona 1161 (Super UW-Metal)
Belzona 5831 (ST-Barrier)
Belzona 3121 (MR7)

SUBSTRATE

Mild Steel

APPLICATION METHOD

Application was carried out in accordance with Belzona Know-How System Leaflets FBC-6, TCC-1 & RPA-1. After isolating the oil conservator tank and marking area of repair to each Turret, the bituminous coating to the base was removed. Substrate degreased and prepared by MBX and hand abrasion. All live leaks were stemmed using Belzona 1291. Doubler plate covering the Turret circumference/base bonded in place with Belzona 1161. Once cured, Belzona 5831 applied to provide corrosion protection and finally Belzona 3121 applied to seal full circumference of Turret to roof joint.

BELZONA FACTS

Client required swift response to provide a satisfactory, long term solution to protect against failure, downtime and maximise the asset life. Belzona fulfilled the Client's wishes in supplying a full turnkey solution within the timescale available.

PICTURES

1. Location of three LV Turrets
2. Corrosion and live leak oil discharge
3. Plate bonding
4. Work completed on one of the Turrets



1.



2.



3.



4.

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



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