

# BELZONA SOLVES CORROSION LEAKS ON TRANSFORMER LV TURRET

ID: 3409

Industry: Power  
Application: TCC-Tanks and Chemical Containment Areas

Customer Location: Electricity Substation, South Coast, UK  
Application Date: April 2012

Substrate: Mild Steel

Products: \* Belzona® 1221 (Super E Metal) ,  
\* Belzona® 1161 (Super UW Metal) ,  
\* Belzona® 5831 (ST Barrier) ,  
\* Belzona® 3121 (MR7) ,

## 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.



## Photograph Descriptions

- \* Location of three LV Turrets ,
- \* Corrosion and live leak oil discharge ,
- \* Plate bonding ,
- \* Work completed on one of the Turrets ,

## Application Situation

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

## 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.

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

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.

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