

BELZONA REPAIRS AND PROTECTS LEAKING TRANSFORMER TURRETS

ID: 6406



PROBLEM

The corrosion had led to a loss of wall thickness. Some of these thinned areas had begun to leak. Loss of oil from the transformer represented a safety & environmental hazard. A fast, long term repair was required to fix the problem. No hot works are allowed due to the presence of oil.

APPLICATION SITUATION

Transformer turrets are normally sealed from the weather into the roof above the transformer. Rainwater had leaked in between the roof & the turret allowing corrosion to take place.

APPLICATION METHOD

Application was carried out in accordance with modified versions of Belzona System Leaflets TCC-1 and TCC-5. The corrosion was removed & a surface profile created with MBX Bristle Blaster. Belzona 1161 was then used to bond doubler plates to the surface. These plates were fabricated so that two sections fitted around the circumference of the turret. The repaired areas were then over coated with Belzona 5831 for further corrosion resistance.

BELZONA FACTS

These repairs were possible during a week shutdown. The alternatives would have involved shutdowns to weld or complete replacement of the turrets.

INDUSTRY

Power

LOCATION

National Grid, Scotland, UK

APPLICATION DATE

October 2015

PRODUCTS

Belzona 1161 (Super UW-Metal)
Belzona 5831 (ST Barrier)

SUBSTRATE

Carbon steel

PHOTOS

1. Turrets before work commenced 2. Close up of the corrosion on the turrets 3. Plates bonded in place with Belzona 1161 4. Belzona 5831 applied to provide long term corrosion protection

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