SF6 GAS LEAKS SEALED WITH BELZONA

ID: 4357

PROBLEM
Failure of the original sealant between the bolted flanges had resulted in loss of containment of the insulating SF6 gas, a potent greenhouse gas.

APPLICATION SITUATION
Gas insulated electricical switchgear

APPLICATION METHOD
Application was carried out using a modified version of Belzona System Leaflet TCC-1. The equipment operator lowered the pressure inside the equipment prior to the application. The area was thoroughly cleaned and roughened before the flange and bolts were completely encapsulated with the Belzona® 2221 focusing on the gap between the bolted faces. Once cured, the equipment was re-pressurized and tested for leaks.

BELZONA FACTS
With no other alternatives, the national energy supplier turned to Belzona to seal these leaks. The Belzona Distributor, Beltech, successfully sealed 95% of the leaks on this initial application with the remaining 5% inaccessible due to equipment design. The dramatically reduced gas losses resulted in massive cost savings to the client, reduced environmental impact and has led to further applications in these areas.

INDUSTRY
Power

LOCATION
Ireland

APPLICATION DATE
October 2012

PRODUCTS
Belzona 2221 (MP Fluid Elastomer)

SUBSTRATE
Mild Steel

PHOTOS
- Bolted joints prior to application
- Surface Preparation carried out using a disc grinder and solvent cleaning
- Joints sealed with Belzona 2221 coating
- Bolts were also encapsulated, completely stopping leakage of SF6 gas in all accessible areas