SEALING OF LEAKS TO SF6 GAS CIRCUIT BREAKER IN LARGE SUBSTATION

ID: 9380

PROBLEM
SF6 leaking from joints and bolts

APPLICATION SITUATION
An effective repair was made to the de-gassed breaker.
The team received detailed training from the Senior Area Sales Engineer and felt confident enough to effect the repair without using outside help
Following the training, they were able to carry out the repair at a time convenient to them and within the allowed outage of the equipment

APPLICATION METHOD
Isolate and de-gas
Abrade the target area as much as possible
Wet out all target areas with mixed Belzona 7311
Wet out the Belzona 9341 reinforcing sheet
Fill bolt caps and cover all bolts, then apply reinforcing sheet
Build up with Belzona 7311 to encapsulate all possible leaking sites
Allow to cure then introduce gas back to 5 bar working pressure

BELZONA FACTS
SF6 has 23,500 time more damage potential to the world's environment than C02. This was carried out as a best effort

INDUSTRY
Power

LOCATION
Newark, Nottinghamshire

APPLICATION DATE
April 2024

PRODUCTS
Belzona 7311

SUBSTRATE
Other

PHOTOS

1. Prepare area with emery paper/ wire brush making surface area as rough as possible.
2. Initial wetting out with a short bristled brush to coat all target areas
3. Cover nuts/bolts with belzona filled caps Wrap with bandage around whole area, overlapping and patching where necessary.
4. Build up Belzona product, ensuring no air pockets remain. Product given a week to cure before 5 bar restored to the Gas Circuit Breaker