

BELZONA ELASTOMERS SEAL SF6 GAS LEAKS AT HYDROELECTRIC FACILITY

ID: 1078

Industry: Power
Application: GSS-Gaskets, Seals and Shims
Substrate: Various metal substrates
Products: * Belzona® 2211 (MP Hi-Build Elastomer) ,
 * Belzona® 2221 (MP Fluid Elastomer) ,
 * Belzona® 1321 (Ceramic S Metal) ,

Customer Location: Hydroelectric Facility, BC
Application Date: 1993

Problem

The constant leakage of Sulphur Hexafluoride gas (SF6) was considered to be a major environmental problem being 25,000 times as effective a "greenhouse gas" as CO2. System is pressurized to 45 psi.



Photograph Descriptions

- * Belzona® 2211 MP Hi-Build in the process of being injected into the gap between the two flanges ,
- * Another variation of a similar application ,
- * Another flange sealed ,

Application Situation

Leaking joints Gas Insulated Switchgear (GIS)

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet GSS-4. Pinholes in welds were coated with

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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 Repair • Protect • Improve

Belzona® 1321. Flanged joints were sealed with Elastomer using a combination of brush application and injection.

Belzona Facts

The Belzona materials applied in 1993 have proven completely effective with joints and welds sealed with Belzona materials remaining sealed for well over a decade now. SF6 consumption has dropped from over 50 bottles per year, to a mere two or three bottles—a saving in excess of \$1 million over the decade. Most importantly losses of SF6 into the atmosphere have been minimized, drastically reducing the environmental impact.

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