

# 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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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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