# CORRODED FLANGE GROOVES REFORMED WITH BELZONA

ID: 4182

Industry: Power

Application: VPF-Valves, Pipes and Fittings

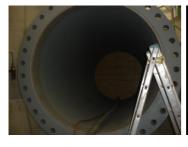
Substrate: Steel

Products: \* Belzona 1111 (Super Metal),

\* Belzona 1321 (Ceramic S-Metal),

#### **Problem**

Corrosion leading to incorrect sealing of mating surfaces







Customer Location: Hydropower plant, Switzerland

Application Date: February 2012



## **Photograph Descriptions**

- \* General view of the equipment before application ,
- \* A pre-cut template allows for simple, effective defining ,
- \* Belzona 1321 applied for a smoother surface,
- \* Pressure pipe after re-assembly,

#### **Application Situation**

Flange grooves in four pipe flanges. Each flange had a diameter of 1820mm; the grooves were 16mm wide and 3-4mm deep.

### **Application Method**

Application was carried out in accordance with Belzona System Leaflet VPF-1. After grit blasting the groove, Belzona 1111 was packed overthick into the groove and, using a simple pre-cut template, the original profile of the groove was recreated. Finally, a thin layer of Belzona 1321 was applied to create a smoother surface.

## **Belzona Facts**

Welding would have taken three to four weeks for two people to complete, a considerable delay in the refurbishment of this hydropower plant. The simple and cold-applied Belzona solution was carried out in just six working days by three people and now ensures long-term corrosion protection of the liner grooves.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

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FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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