

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) ,

Customer Location: Hydropower plant, Switzerland
Application Date: February 2012

Problem

Corrosion leading to incorrect sealing of mating surfaces



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>

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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