# BELZONA REPAIRS AND COATS HYDROELECTRIC TURBINE PIPELINES AND VANES

ID: 5618

Industry: Power

Customer Location: Hydroelectric Power Plant, Brazil

Application: CEP-Centrifugal Pumps

Application Date: November 2008

Substrate: Mild steel

Products: \* Belzona 1311 (Ceramic R-Metal),

\* Belzona 1321 (Ceramic S-Metal),

#### **Problem**

Wear caused by erosion and corrosion in the areas with high water turbulence.









### **Photograph Descriptions**

- \* Internal surface of the damaged pipeline,
- \* Damaged vanes,
- \* Lower area of the pipeline coated with Belzona 1321,
- \* Vanes protected with Belzona 1321,

#### **Application Situation**

Hydroelectric turbine pipelines and vanes.

## **Application Method**

The application was carried out in accordance with Belzona Know-How System Leaflet CEP-1. The surface was prepared with a dry abrasive blast and cleaned with a degreaser. The worn areas were repaired with Belzona 1311 and then coated with Belzona 1321 to protect against erosion and corrosion.

#### **Belzona Facts**

As there was already a history with the successful use of Belzona products in a similar situation, the choice to apply Belzona 1311 and 1321 was once again made.

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

ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

www.belzona.com

BELZONA®