

BELZONA® REPAIRS A FRANCIS TURBINE

ID: 1736

Industry: Power

Customer Location: Hydroelectric power plant / Moulin Neuf, France

Application: CEP-Centrifugal Pumps

Application Date: September 2009

Substrate: Steel

Products: * Belzona® 1311 (Ceramic R-Metal) Belzona® 1321 (Ceramic S-Metal) ,

Problem

Based on previous experience and drawbacks of a hot applied solution, welding was not an option.



Photograph Descriptions

* Original turbine After disassembling After rebuilding with Belzona® 1311 Application of 2 coats of Belzona® 1321 ,

Application Situation

This turbine was in operation since 1976 and showed significant erosion-corrosion.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-3 & 5. Belzona® 1311 was used to restore profiles before overcoating with Belzona® 1321 to provide protection from further erosion-corrosion.

Belzona Facts

The Belzona solution has avoided the replacement of the turbine which would have cost between 30000€ and 50000€. About 50 hours of works were needed to repair this turbine and the repair cost 10000€ to the client.

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.

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