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.