

# BELZONA MAINTAINS FRANCIS TURBINE

ID: 928

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Steel  
Products: \* Belzona® 1111 (Super Metal) ,  
\* Belzona® 1321 (Ceramic S Metal) ,

Customer Location: Power Plant, Honduras, Central America  
Application Date: November 2006

## Problem

The water had produced an erosion/corrosion effect in several sections of four different parts of the Turbine. The biggest damage was located in the seal perimeter of the facing plate.



## Photograph Descriptions

- \* View of diffusers ,
- \* Damage in seal perimeter ,
- \* Machined area prior application of Belzona® 1111 ,
- \* Final application of Belzona® 1111 and Belzona® 1321 ,

## Application Situation

Complete Overhaul of all the parts and sections of a Francis Turbine. The turbine needed maintenance after 15 years of operation.

## Application Method

Repairs were carried out utilizing Belzona Know-How System Leaflets CEP-4, CEP-5 and ENC-5.

## Belzona Facts

The customer decided to make a complete maintenance using Belzona's products after we had repaired the shaft in 2004 with excellent results. The actual damaged part had a diameter of 3.8 m which was rebuilt, machined and rectified to precise measurements for its assembly.

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

[www.belzona.com](http://www.belzona.com)

**BELZONA**  
Repair • Protect • Improve