

# Hydro turbine guide vanes repaired and protected with BELZONA

ID: 5158

Industry: Power

Application: CEP-Centrifugal Pumps

Substrate: Cast iron

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

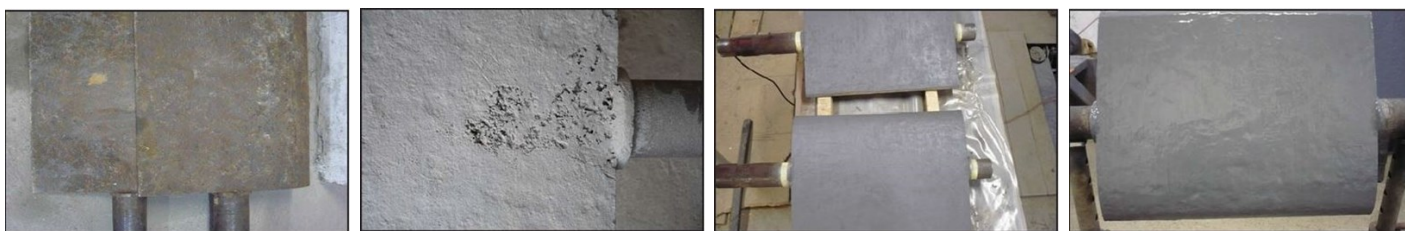
\* Belzona 1321 (Ceramic S-Metal) ,

Customer Location: Power plant, Ukraine

Application Date: January-February 2012

## Problem

*Erosion and cavitation of turbine vanes*



## Photograph Descriptions

- \* General view of the turbine guide vanes surface preparation ,
- \* Grit blasting of the turbine guide vanes ,
- \* Geometry of guide vanes repaired using Belzona 1311 ,
- \* Repaired surfaces of the guide vanes after the application of Belzona 1311 and Belzona 1321 ,

## Application Situation

Erosion/corrosion and cavitation by pressure to the face of turbine guide vanes revealed during annual inspection

## Application Method

The application was carried out according to Belzona Know-How System Leaflet CEP-1 and FBC-2. Belzona 1311 was used to resurface the profile. Belzona 1321 was applied to improve efficiency and protect against erosion/corrosion.

## Belzona Facts

Replacement was considered unacceptable due to a short shut down. Belzona was the only alternative. All work has been conducted in a short time, and this has allowed to minimize time and money

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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9000 Registered Quality  
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