

HYDRO TURBINE GUIDE VANES REPAIRED AND PROTECTED WITH BELZONA

ID: 5158



PROBLEM

Erosion and cavitation of turbine vanes

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

INDUSTRY

Power

LOCATION

Power plant, Ukraine

APPLICATION DATE

January-February 2012

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Cast iron

PHOTOS

1. General view of the turbine guide vanes surface preparation
2. Grit blasting of the turbine guide vanes
3. Geometry of guide vanes repaired using Belzona 1311
4. Repaired surfaces of the guide vanes after the application of Belzona 1311 and Belzona 1321

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

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