

Belzona Proven Cavitation Protection To A Francis Turbine

ID: 8443

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Cast Iron
Products: * Belzona 1221 (Super E-Metal) ,
* Belzona 2141 (ACR-Fluid Elastomer) ,
* Belzona 2941 (Elastomer SP-Conditioner) ,

Customer Location: Poland
Application Date: 2019

Problem

Cavitation has caused erosion of the parent metal and loss of performance of the turbine.



Photograph Descriptions

- * 1. Turbine after grit blasting ,
- * 2. Repaired with Belzona 1221 ,
- * 3: In Progress ,
- * 4: Coated with Belzona 2141 ,

Application Situation

The client required reconstruction of defects and chemical protection of the Francis Turbine Runner constructed in 1925 at the hydroelectric plant.

Application Method

The application was carried out in accordance with the Belzona Know-How System Leaflets CEP-3 and CEP-5. Firstly, metal loss was repaired with Belzona 1221. Once the damaged areas had been repaired, the turbine runners were completely coated with Belzona 2141.

Belzona Facts

Belzona was chosen to protect the turbine from the erosion and corrosion for its ability to increase the efficiency of the turbine. After the repair client expressed himself happy with the application and wanted to coat the other turbines.

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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