

BELZONA REPAIRS KAPLAN TURBINE BLADES IN FRANCE

ID: 269

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Cast iron
Products: * Belzona® 1111 (Super Metal) ,
* Belzona® 1341 (Supermetalgilde) ,

Customer Location: Electric supply company in France
Application Date: February 2000

Problem

Erosion-corrosion of the blades leading to large loss in efficiency. In particular, cavitation had caused deep erosion in localized areas.



Photograph Descriptions

- * Cavitation-erosion damage present on the turbine blades ,
- * The blade edges were particularly badly eroded ,
- * Blade profiles being restored with Belzona® 1111, using plastic strips to obtain edge detail ,
- * Completed application. Note the smooth surface obtained with Belzona® 1341 ,

Application Situation

Kaplan turbine hydroelectric power station on the Moselle River in France.

Application Method

The application was carried out in accordance with a modified version of Belzona Know-How System Leaflets CEP-1 and CEP-10. The blade edges were rebuilt using plastic formers to accurately restore the required profiles.

Belzona Facts

After one year in service, the Belzona System was inspected and was found in excellent condition. Although no accurate measure of efficiency was available, the Belzona System will restore the original efficiency and provide power production through its smooth, hydrophobic surface.

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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