

# BELZONA REFURBISHES EIGHTY YEAR OLD TURBINE RUNNER

ID: 2254

**Industry:** Power  
**Application:** CEP-Centrifugal Pumps  
**Substrate:** Cast Steel  
**Products:** \* Belzona® 1121 (Super XL Metal) ,  
\* Belzona® 1341 (Supermetalgilde) ,

**Customer Location:** Hydro-electric plant, Arkansas  
**Application Date:** 2008

## Problem

*Years of use had caused severe corrosion and cavitation erosion on the turbine. Customer had received bids for new replacement but chose Belzona on economic grounds.*



## Photograph Descriptions

- \* Turbine before initial blast cleaning ,
- \* Some of the cavitation damage ,
- \* Project after Belzona® 1121 application ,
- \* Completed project ,

## Application Situation

Severely eroded Francis turbine runner.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-3 & CEP-5. Corroded surfaces were rebuilt and smoothed with Belzona® 1121 before coating with Belzona® 1341 for long term protection.

## Belzona Facts

Belzona method saved the customer in excess of \$150,000 and restored turbine to its original efficiency.

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.

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