

# BELZONA REBUILDS AND PROTECTS TURBINE RUNNER

ID: 6071

Industry: Power  
Application: CEP-Centrifugal Pumps  
Substrate: Cast iron  
Products: \* Belzona 1311 (Ceramic R-Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

Customer Location: Hydroelectric Plant, Jokkmokk, Sweden  
Application Date: 2014

## Problem

Constant use had damaged the vulnerable cast iron substrate of the impellers. The client needed a quick, long-term solution to avoid downtime to their plant.



## Photograph Descriptions

- \* Turbine housing entrance ,
- \* Cavitation damage to the runner ,
- \* Close-up of the damage ,
- \* Completed application ,

## Application Situation

Two impeller runner blades had suffered severe cavitation and erosion damage.

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-1 and CEP-3. Surfaces were grit blasted prior to rebuilding with Belzona 1311 to restore profiles and coating with Belzona 1321 to provide long-term protection.

## Belzona Facts

The Belzona solution is cold-applied and simple to use, which meant that repairs and the application could be performed in-situ, avoiding costly disassembly work which would force a long downtime period. Force curing Belzona allowed the plant to return to operational status as quickly as possible, whilst the Belzona application offers a long-term, durable solution.

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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