# **BELZONA REBUILDS AND PROTECTS TURBINE RUNNER**

ID: 6071

Industry:PowerApplication:CEP-Centrifugal PumpsSubstrate:Cast ironProducts:\* Belzona 1311 (Ceramic R-Metal) ,<br/>\* 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

Belzona products are manufactured under an ISO 9000 Registered Quality Management System.

www.belzona.com

