

BELZONA REBUILDS AND PROTECTS TURBINE RUNNER

CUSTOMER

Hydroelectric Plant, Jokkmokk, Sweden

APPLICATION DATE

2014

APPLICATION SITUATION

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

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.

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Cast iron

APPLICATION METHOD

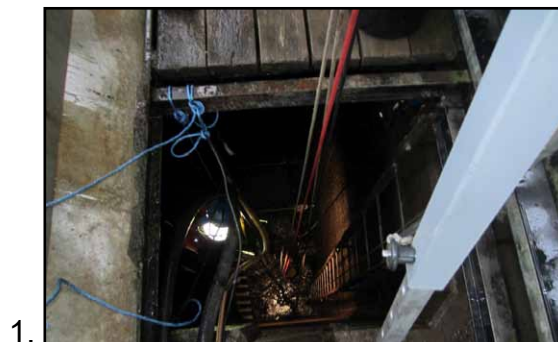
Application was carried out in accordance with Belzona Know-How System Leaflets CEP-1 and CEP-3. Surfaces were grit blasted prior to rebuilding with Belzona 1311 to restore profiles and coating with Belzona 1321 to provide long-term protection.

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.

PICTURES

1. Turbine housing entrance
2. Cavitation damage to the runner
3. Close-up of the damage
4. Completed application



For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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