

BELZONA REBUILDS AND PROTECTS TURBINE RUNNER

ID: 6071



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.

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.

INDUSTRY

Power

LOCATION

Hydroelectric Plant, Jokkmokk, Sweden

APPLICATION DATE

2014

PRODUCTS

Belzona 1311 (Ceramic R-Metal)
Belzona 1321 (Ceramic S-Metal)

SUBSTRATE

Cast iron

PHOTOS

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 khia.belzona.com

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