

HOLED HYDRO TURBINE RUNNER REPAIRED WITH BELZONA

ID: 855



PROBLEM

Entrained solids and cavitation caused severe damage to the edges of the runner. Holes and pitting are evident on the runner vanes.

APPLICATION SITUATION

Hydro Turbine runner with severe erosion damage

APPLICATION METHOD

Application carried out in accordance with CEP-3 & CEP-5. In-situ blast to near white metal finish, rebuilding to fill pits and holes finally overcoating with two coats Belzona® 1341.

BELZONA FACTS

Runner replacement would be a several million dollar process involving total removal of the generator sets and dismantling of the penstock. It was not an option. Rebuilding and protection with Belzona will prolong service life.

INDUSTRY

Water / Wastewater

LOCATION

Hydroelectric plant, Vermont

APPLICATION DATE

January 2007

PRODUCTS

Belzona 1121 (Super XL Metal)
Belzona 1341 (Supermetalglide)

SUBSTRATE

Steel

PHOTOS

1. Damaged runner with holes
2. Damaged runner with holes
3. Grit blasted clean and ready for coating
4. Finished runner

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

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