

HOLED HYDRO TURBINE RUNNER REPAIRED WITH BELZONA

ID: 855

Industry: Water / Wastewater

Application: CEP-Centrifugal Pumps

Substrate: Steel

Products: * Belzona® 1121 (Super XL Metal) ,
* Belzona® 1341 (Supermetalglide) ,

Customer Location: Hydroelectric plant, Vermont

Application Date: January 2007

Problem

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



Photograph Descriptions

- * Damaged runner with holes ,
- * Damaged runner with holes ,
- * Grit blasted clean and ready for coating ,
- * Finished runner ,

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.

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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manufactured under an ISO
9000 Registered Quality
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