

HOLED HYDRO TURBINE RUNNER REPAIRED WITH BELZONA

CUSTOMER

Hydroelectric plant, Vermont

APPLICATION DATE

January 2007

APPLICATION SITUATION

Hydro Turbine runner with severe erosion damage

PROBLEM

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

PRODUCTS

Belzona® 1121 (Super XL Metal)

Belzona® 1341 (Supermetalgilde)

SUBSTRATE

Steel

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.

PICTURES

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 <http://khia.belzona.com>



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

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

UK • USA • Canada • China
www.belzona.com


BELZONA®
Repair • Protect • Improve