

BELZONA REPAIRS A BROKEN HYDRO ELECTRIC TURBINE RUNNER

ID: 924



PROBLEM

Loss of balance and horsepower.

APPLICATION SITUATION

Wicket gate came loose and fell into turbine breaking three blades on runner.

APPLICATION METHOD

Application carried out in accordance with the Belzona Know-How System Leaflets CEP-1 & -3. Expanded metal was tack welded in place before rebuilding with Belzona® 1311. Complete runner then coated.

BELZONA FACTS

At a cost of less than \$5,000.00 in Belzona products, the hydro electric plant saved many thousands of dollars by repairing the turbine instead of sending it out to be repaired. Overall efficiency has been increased by 5-7 kilowatts per hour.

INDUSTRY

Power

LOCATION

Hydro Electric Plant, U.S.A

APPLICATION DATE

May, 2007

PRODUCTS

Belzona 1311 (Ceramic R-Metal) Belzona 1321 (Ceramic S-Metal) Belzona 1341 (Supermetalgilde)

SUBSTRATE

Cast Steel

PHOTOS

1. Broken runner blade
2. Expanded metal tack welded
3. Blades rebuilt with Belzona 1311
4. Completed application after coating 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.

www.belzona.com

