BELZONA REPAIRS A BROKEN HYDRO ELECTRIC TURBINE RUNNER

ID: 924

Industry: Power Customer Location: Hydro Electirc Plant, U.S.A

Application: CEP-Centrifugal Pumps Application Date: May, 2007

Substrate: Cast Steel

Products: Belzona® 1311 (Ceramic R-Metal)<div>Belzona® 1321 (Ceramic S-Metal)</div>elzona® 1341

(Supermetalglide) </div>

Problem

Loss of balance and horsepower.









Photograph Descriptions

* Broken runner blade, * Expanded metal tack welded, * Blades rebuilt with Belzona® 1311, * Completed application after coating runner,

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.

