

## BELZONA PROTECTS HYDROELECTRIC TURBINE RUNNER

### CUSTOMER

Hydroelectric power plant in Scotland

### APPLICATION DATE

November 2000

### APPLICATION SITUATION

Francis turbine runner

### PROBLEM

Over 40 years of service led to cavitation and corrosion.

### PRODUCTS

Belzona® 1111 (Super Metal)

Belzona® 1341 (Supermetalgilde)

### SUBSTRATE

Phosphor Bronze

### APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflets CEP-3 and -5.

### BELZONA FACTS

Conventional weld repairs would have been cost prohibitive. In addition, Belzona repairs do not create heat stress, an increase in efficiency is expected. The turbine does not operate full time. In summer there is often only enough water for operation one day per week.

### PICTURES

1. The runner prior to application.
2. Application underway with second coat of Belzona® 1341 being applied.
3. The completed application with the smoothness of Belzona® 1341 clearly evident.



1.



2.



3.

For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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