

BELZONA REPAIRS A HYDROELECTRIC TURBINE

ID: 713



PROBLEM

Erosion, corrosion and cavitation of the stay vanes and the casing had induced vibration into the turbine and was also making the turbine run inefficiently.

APPLICATION SITUATION

Francis Turbine

APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How System Leaflets CEP-8 & CEP-10.

BELZONA FACTS

Once back in service the turbine once again achieved its maximum efficiency. The coatings were also chosen to protect the turbine from further damage. An inspection of the turbine following 11 years of service showed that the repair was in excellent condition with only minor damage to the coating, due to erosion from entrained solids, being observed.

INDUSTRY

Power

LOCATION

Hydroelectric Power Plant, France

APPLICATION DATE

February 2001

PRODUCTS

Belzona 1311 (Ceramic R-Metal) Belzona 1341 (Supermetalgilde) Belzona 5811 (Immersion Grade)

SUBSTRATE

Steel

PHOTOS

1. The Francis turbine 2. The extent of the damage 3. The completed application 4. Turbine after 11 years in service

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

