# BELZONA® 2141 PROTECTS FRANCIS TURBINE RUNNERS FROM CAVITATION

ID: 901

Industry: Power Customer Location: Hydroelectric plant (Ontario, Canada)

Application: CEP-Centrifugal Pumps Application Date: August 1998 and July 2001

Substrate: Cast Iron

Products: \* Belzona® 2141 (ACR-Fluid Elastomer),

\* Belzona® 2941 (Elastomer SP-Conditioner),

#### **Problem**

Cavitation had caused erosion of the parent metal and loss of performance of the turbine. Belzona® 1341 and Belzona® 1421 had been applied in 1998 but had suffered erosion in this aggressive environment.









## **Photograph Descriptions**

- \* Cavitation damage ,
- \* Belzona® 1341 (left) and Belzona® 1421 (right) after 36 months service,
- \* Belzona® 2141 after application ,
- \* Belzona® 2141 after 34 months,

### **Application Situation**

Twin 914mm (36 inch) Francis Turbine Runners operating with 13m (42 feet) head and constructed in 1945.

### **Application Method**

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-3.

#### **Belzona Facts**

Inspection of the Belzona® 2141 in 2002 showed no damage – further inspection after 34 months showed no sign of damage to the coating.

For more examples of Belzona Know - How In Action, please visit https://khia.belzona.com

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FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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