

BELZONA 2141 PROTECTS FRANCIS TURBINE RUNNERS FROM CAVITATION

ID: 901



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.

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.

INDUSTRY

Power

LOCATION

Hydroelectric plant (Ontario, Canada)

APPLICATION DATE

August 1998 and July 2001

PRODUCTS

Belzona 2141 (ACR-Fluid Elastomer)
Belzona 2941 (Elastomer SP-Conditioner)

SUBSTRATE

Cast Iron

PHOTOS

1. Cavitation damage
2. Belzona 1341 (left) and Belzona 1421 (right) after 36 months service
3. Belzona 2141 after application
4. Belzona 2141 after 34 months

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

