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

ISO 9001:2015 Belzona products are
FS 695214 manufactured under an ISO
ISO 14001:2015 9000 Registered Quality
EMS 695213 Management System.

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