

# BELZONA® 2141 PROTECTS FRANCIS TURBINE RUNNERS FROM CAVITATION

ID: 901

**Industry:** Power  
**Application:** CEP-Centrifugal Pumps  
**Substrate:** Cast Iron  
**Products:** \* Belzona® 2141 (ACR-Fluid Elastomer) ,  
\* Belzona® 2941 (Elastomer SP-Conditioner) ,

**Customer Location:** Hydroelectric plant (Ontario, Canada)  
**Application Date:** August 1998 and July 2001

## 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  
FS 695214  
ISO 14001:2015  
EMS 695213

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