

# Relining of Cooling Water Heat exchangers

ID: 9576

**Industry:** Power  
**Application:** HEX-Heat Exchangers  
**Substrate:** Carbon steel  
**Products:** Belzona 1311 (Ceramic R-Metal), Belzona 1331, Belzona 2111 (D & A Hi-Build Elastomer), Belzona 2141 (ACR-Fluid Elastomer), Belzona 2911 (Elastomer QD Conditioner)

**Customer Location:** Point Lepreau New Brunswick  
**Application Date:** March 2017

## Problem

Existing rubber lining was in need of replacement. Belzona was chosen to repair divider bar and reline waterbox and tubesheet. 1311 was used for repair work and 1331 was chosen as the lining. Joints between waterbox and cover/tubesheet were sealed with 2111 and 2141.



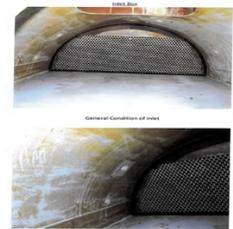
Application of Belzona 1331



Repaired divider bar



Full coat of Belzona 1331 being applied



Inspections after 6 years showed no signs of corrosion. The Belzona products were in excellent shape.

## Application Situation

This nuclear facility was looking for a long term solution for corrosion protection in their raw sea water heat exchanger.

## Application Method

Steel was abrasive blasted to SSPC SP10. Divider bar was repaired using a Belzona Applicator and a former. Lining was stripe coated by brush and two full coats applied by spray.

## Belzona Facts

Belzona was chosen because of the history of excellent performance and support in this plant.

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

Belzona products are  
 manufactured under an ISO  
 9000 Registered Quality  
 Management System.

[www.belzona.com](http://www.belzona.com)

  
**BELZONA**<sup>®</sup>  
 Repair • Protect • Improve