# BELZONA PROTECTS MAIN CIRCULATION PUMP IN NUCLEAR POWER STATION

ID: 125

Industry: Power

Customer Location: Nuclear Power Plant in Mexico

Application: CEP-Centrifugal Pumps

Application Date: September 1991

Substrate: Cast Iron

Products: \* Belzona® 1311(Ceramic R-Metal),

\* Belzona® 1321(Ceramic S-Metal), \* Belzona® 6111(Liquid Anode), \* Belzona® 5811(Immersion Grade),

#### **Problem**

All the pump components suffered from erosion/corrosion due to the use of sea water as the cooling medium. The effects were exacerbated by entrainment, cavitation and bimetallic corrosion.







#### **Photograph Descriptions**

- \* Surface of pump prior to application of Belzona® 1311 showing damage ,
- \* Applying Belzona® 1311 ,
- \* Components of pump ready for reassembly, external surfaces protected with Belzona® 5811,

### **Application Situation**

Main cooling water circulation pump

## **Application Method**

In accordance with Belzona Know-How Leaflets CEP-5, CEP-3 and CEP-4.

#### **Belzona Facts**

Using the Belzona repair method cost the customer 30% more than using the conventional repair materials. Whereas the usual repairs lasted no more than a year before maintenance, this repair, completed nearly five years, ago is still intact. The saving to the customer, after the initial outlay of £60,000, is £45,000 and five days of downtime every year.

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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