BELZONA PROTECTS MAIN CIRCULATION PUMP IN NUCLEAR POWER STATION

ID: 125

Industry: *Power*
Application: *CEP-Centrifugal Pumps*
Substrate: *Cast Iron*
Products: ** Belzona® 1311(Ceramic R-Metal) ,*
** Belzona® 1321(Ceramic S-Metal) ,*
** Belzona® 6111(Liquid Anode) ,*
** Belzona® 5811(Immersion Grade) ,*

Customer Location: *Nuclear Power Plant in Mexico*
Application Date: *September 1991*

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

ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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

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Repair • Protect • Improve