Know-How*in Action*

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BELZONA PROTECTS MAIN CIRCULATION PUMP IN NUCLEAR POWER STATION

CUSTOMER
Nuclear Power Plant in Mexico

APPLICATION DATE
September 1991

APPLICATION SITUATION
Main cooling water circulation pump

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.

PRODUCTS
Belzona® 1311(Ceramic R-Metal)
Belzona® 1321(Ceramic S-Metal)
Belzona® 6111(Liquid Anode)
Belzona® 5811(Immersion Grade)

SUBSTRATE
Cast Iron

APPLICATION METHOD
In accordance with Belzona Know-How System 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.

PICTURES
1. Surface of pump prior to application of Belzona® 1311 showing damage
2. Applying Belzona® 1311
3. Components of pump ready for reassembly, external surfaces protected with Belzona® 5811

1.


2.


3.


ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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

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Repair • Protect • Improve