

BELZONA PROTECTS MAIN CIRCULATION PUMP IN NUCLEAR POWER STATION

ID: 125



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.

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.

INDUSTRY

Power

LOCATION

Nuclear Power Plant in Mexico

APPLICATION DATE

September 1991

PRODUCTS

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

SUBSTRATE

Cast Iron

PHOTOS

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

For more examples of Belzona Know-How in Action, please visit khia.belzona.com

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

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