

## NUCLEAR PLANT BENEFITS FROM BELZONA'S LONG-LASTING PUMP COATINGS

### CUSTOMER

Nuclear Power Plant - Flamanville, France

### APPLICATION DATE

Original Application - 1998

### APPLICATION SITUATION

Main sea water cooling pumps.

### PROBLEM

The sand and other solid particles suspended in the solution were causing erosion and wear damage on the pump lining and the maintenance team needed a solution to ensure continued operation of the equipment. In addition, the expectation of the solution was an in-service lifespan of at least 8 years, ruling out a significant number of alternative repair methods.

### PRODUCTS

Belzona 1321 (Ceramic S Metal)

Belzona 5821

### SUBSTRATE

Steel

### APPLICATION METHOD

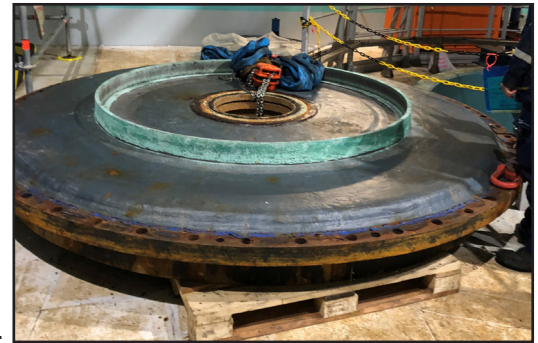
The application was carried out in accordance with the Belzona Know-How System Leaflet CEP-3.

### BELZONA FACTS

This power station had been coating cooling water pumps with Belzona for over 25 years, with each application demonstrating excellent erosion-corrosion resistance over that period. In this instance, the application was no different. Originally coated in 1998, the pump and coating were inspected 20 years later and found to still be in excellent condition. As a future-proofing measure, the Belzona Distributor frost blasted the coating and applied an additional layer of Belzona 5821 before returning to service. This high-performance system is ideally suited for equipment operating under immersion and erosive conditions and will extend the pump's life expectancy well beyond its original prescription.

### PICTURES

1. Pump removed from service for inspection
2. Inspection reveals the coating is still in excellent condition after 20 years
3. Coating frost blasted before application of Belzona 5821
4. Pump reinstalled with additional barrier protection



1.



2.



3.



4.

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