

Nuclear Plant Benefits from Belzonas Long-Lasting Pump Coatings

ID: 7729

Industry: Power

Customer Location: Nuclear Power Plant - Flamanville,
France

Application: CEP-Centrifugal Pumps

Application Date: Original Application – 1998

Substrate: Steel

Products: * Belzona 1321 (Ceramic S Metal) ,

* Belzona 5821 ,

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.



Photograph Descriptions

* 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 ,

Application Situation

Main sea water cooling pumps.

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

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ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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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.

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