

PUMP DIFFUSER REPAIR SURPASSES ALL EXPECTATIONS WITH BELZONA

ID: 1368

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

Customer Location: National Electricity Provider, Malta
Application Date: May 2000

Problem

Efficiency losses and pump breakdown due to severe erosion-corrosion of the single vertical axial flow pump (7090 m³/h). Prior to the Belzona solution, the client had to replace the pump components annually. As a significant local electricity supplier, downtime of this critical equipment caused major problems.



Photograph Descriptions

- * Condition of the pump diffuser after 1 year in service ,
- * Rebuilding of the vane profiles ,
- * The finished application ,
- * Application after 9 years service ,

Application Situation

Sea water cooling system pump for a 60 MW turbine.

Application Method

The application was carried out in accordance with Belzona Know-How System Leaflets CEP-1, CEP-3 and CEP-4.

Belzona Facts

The customer was surprised that the eroded equipment could be repaired and delighted with the vastly improved reliability and performance. The pump casing and suction bell were also coated and protected internally and externally. After 9 years in service,

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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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the coating was found to still be in excellent condition.

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