

# 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 m<sup>3</sup>/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

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 Repair • Protect • Improve

the coating was found to still be in excellent condition.

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