

PUMP DIFFUSER REPAIR SURPASSES ALL EXPECTATIONS WITH BELZONA

CUSTOMER

National Electricity Provider, Malta

APPLICATION DATE

May 2000

APPLICATION SITUATION

Sea water cooling system pump for a 60 MW turbine.

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.

PRODUCTS

Belzona® 1311 (Ceramic R-Metal)

Belzona® 1321 (Ceramic S-Metal)

Belzona® 5811 (Immersion Grade)

SUBSTRATE

Cast Iron

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, the coating was found to still be in excellent condition.

PICTURES

1. Condition of the pump diffuser after 1 year in service
2. Rebuilding of the vane profiles
3. The finished application
4. Application after 9 years service



1.



2.



3.



4.

For more examples of *Belzona Know-How In Action*, please visit <http://khia.belzona.com>



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