

PUMP BELL CASING REPAIRED AND PROTECTED WITH A LONG TERM BELZONA SOLUTION

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 or repair 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-5, CEP-3 and CEP-4.

BELZONA FACTS

The original bell lining was failing on an annual basis, leading to pitting corrosion and regular replacement. The Belzona repair vastly improved reliability and performance. The pump casing, liner and diffuser were also repaired and coated, internally and externally. Yearly touch up is required of the sacrificial coating in the swept area due to cavitation damage. original Belzona protected bellmouth still in service after nine years.

PICTURES

1. Original system after 1 year in service
2. The finished Belzona application
3. Cavitation damage in the swept area
4. Ready to go back into service after touch up



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



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