

Belzona solution for In-Situ Shaft Repair at a Power Station

ID: 10002

Industry: Power
Application: MPT-Mechanical Power Transmission

Customer Location: Melbourne, Australia
Application Date: August 2025

Substrate: Cast Iron
Products: Belzona 1111 (Super Metal)

Problem

Shaft had suffered damage due to a spun bearing in service, leading to reduced performance and efficiency in operations.



Damage on shaft caused by a spun bearing in service



Preparation for shaft repair in situ



Belzona 1111 (Super Metal) was applied to restore the surface without the need to disassembling the equipment



Belzona 1111 (Super Metal) was left to cure and machined to original dimensions.

Application Situation

Due to time and cost associated with dismantling the equipment and replacing the shaft, the customer was looking for a solution that can be applied in situ. As the customer is familiar with the previous success of Belzona solutions, they contacted Belzona Authorised Distributor in Australia to seek the most appropriate shaft repair solutions.

Application Method

The shaft was prepared and rebuilt in situ with Belzona 1111 (Super Metal). Once the product was fully cured, the shaft was machined to original dimensions.

Belzona Facts

Cost saving was significant with no less than \$25,000 AUD saved in down time and manpower compared to opting for this BELZONA solution.

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ISO 9001:2015
FS 695214
ISO 14001:2015
EMS 695213

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