

Belzona top up after 3 years service

ID: 7743

Industry: Customer Location: Italy Power

Application: CEP-Centrifugal Pumps Application Date: 2015 (re-coated 2018)

Substrate: Carbon Steel

Products: * Belzona 1121 (Super XL Metal),

* Belzona 1341 (Supermetalglide),

Problem

Impingement erosion coupled with corrosion from the contaminated water had caused significant metal loss to various areas of the pump housing. Damage was most noticeable around the flow straighteners, where turbulent flow had increased the rate of erosion.









Photograph Descriptions

- * 1. Erosion / Corrosion damage,
- * 2. Crack ends drill tapped and terminated by metal stitching,
- * 3. Repair and coating application complete,
- * 4. Re-coated after 3 years in service,

Application Situation

Condensate extractor pumps carrying water contaminated with H2S and SO2 at Geothermal Power Plant.

Application Method

Application was carried out in accordance with System Leaflets CEP-5, CEP-6 & CEP-10.

Belzona Facts

The cost of replacement for the pump casing significantly outweighs using a coating as a sacrificial measure to be maintained/re-coated every 3-4 years. Belzona was selected for this application as alternative rebuild methods were unable to repair and terminate the cracked areas of the casing. The efficiency enhancement of the Belzona 1341 (Supermetalglide) introduced an additional cost benefit for the customer by reducing energy consumption of the pump. The pump was inspected 3 years into service and 80% of the coating was still in very good condition. The coating was refurbished before being put back into service.

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