

RESTORATION OF BRONZE IMPELLER WITH BELZONA

ID: 724

Industry: Water / Wastewater

Application: CEP-Centrifugal Pumps

Substrate: Bronze

Products: * Belzona® 1311 (Ceramic-R Metal) ,

* Belzona® 1321 (Ceramic-S Metal) ,

Customer Location: AEP/PSO - Oolagah, OK

Application Date: June, 2005

Problem

This pump impeller, 1 of 4, normally running 24/7 had eroded to the point of replacement.



Photograph Descriptions

- * First inspection showing extent of erosion damage ,
- * Mesh in place and rebuild proceeding ,
- * Grinding to contour ,
- * Rebuilt and ready for service ,

Application Situation

Cooling water pump impeller.

Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet CEP-1, CEP-3 and CEP-5. Stainless Steel mesh used to reform vanes. After rebuilding, grinding to original profiles and coating, impeller was re-balanced.

Belzona Facts

Downtime was critical in this application and although replacement could be flown in within 6 days, further machining would be required. Belzona application was completed within 3 days.

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

ISO 9001:2015

FS 695214

ISO 14001:2015

EMS 695213

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