RESTORATION OF BRONZE IMPELLER WITH BELZONA

CUSTOMER

AEP/PSO - Oolagah, OK

APPLICATION DATE

June, 2005

APPLICATION SITUATION

Cooling water pump impeller.

PROBLEM

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

PRODUCTS

Belzona® 1311 (Ceramic-R Metal) Belzona® 1321 (Ceramic-S Metal)

SUBSTRATE

Bronze

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.

PICTURES

- 1. First inspection showing extent of erosion damage
- 2. Mesh in place and rebuild proceeding
- 3. Grinding to contour
- 4. Rebuilt and ready for service









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



UK • USA • Canada • China
www.belzona.com

BELZONA