

CAVITATION DAMAGE IN PUMP REPAIRED

ID: 837

Industry: Power
Application: CEP-Centrifugal Pumps
Substrate: Cast carbon steel (5% Nickel)
Products: * Belzona® 1221 (Super E-Metal) ,
* Belzona® 2141 (ACR Elastomer) ,

Customer Location: Power Plant / NE Oklahoma
Application Date: March 2007

Problem

Severe cavitation erosion above and below wear ring. limited time to restore pump.



Photograph Descriptions

- * Extent of cavitation damage to suction bell, above and below wear ring ,
- * Repairing damage back to original dimensions ,
- * Repaired surface rebated, taped and half coated with Belzona® 2141 ,
- * Finished job ready for bushing installation then into service ,

Application Situation

Suction bell of pump found to be cavitated during 1 week outage.

Application Method

Application carried out in accordance with Belzona Know-How System Leaflets CEP-3 and CEP-5. Rebate grooves were cut to terminate coating.

Belzona Facts

Belzona repair and protective coating combined with 1-week turnaround saved approx. \$15,000 versus purchase of new unit with much longer lead time. Improved resistance to cavitation anticipated.

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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