

CAVITATION DAMAGE IN PUMP REPAIRED

CUSTOMER

Power Plant / NE Oklahoma

APPLICATION DATE

March 2007

APPLICATION SITUATION

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

PROBLEM

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

PRODUCTS

Belzona® 1221 (Super E-Metal)

Belzona® 2141 (ACR Elastomer)

SUBSTRATE

Cast carbon steel (5% Nickel)

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.

PICTURES

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



1.



2.



3.



4.

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



ISO 9001:2008
Q 09335
ISO 14001:2004
EMS 509612

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