

# BELZONA REBUILDS CAVITATED VANES

ID: 611

**Industry:** Power  
**Application:** CEP-Centrifugal Pumps  
**Substrate:** Cast iron  
**Products:** \* Belzona® 1311 (Ceramic R-Metal) ,  
\* Belzona® 1321 (Ceramic S-Metal) ,

**Customer Location:** Power plant, Egypt  
**Application Date:** April 2004

## Problem

Severe cavitation caused holes, pittings and deformation in the profile of the vanes.



## Photograph Descriptions

- \* General view of the five impellers ,
- \* The cavitated vanes ,
- \* Rebuilding the vanes using Belzona® 1311 ,
- \* Finished Impellers coated with Belzona® 1321 ,

## Application Situation

Five impellers of cooling pumps

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflets CEP-3 and CEP-5.

## Belzona Facts

Belzona rebuilt the cavitation and pitting damage in the vanes restoring the correct profile using a simple technique, saving replacement costs and also providing more resistance to future cavitation.

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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manufactured under an ISO  
9000 Registered Quality  
Management System.

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