

## SEA WATER PUMP REPAIRED AND PROTECTED WITH BELZONA

### CUSTOMER

Power Plant, Venice, Italy

### APPLICATION DATE

September 2015

### APPLICATION SITUATION

Casing and components of the sea water circulation pump.

### PROBLEM

After several years in service, the surfaces had become corroded and eroded by sea water. In addition, cavitation damage on the vanes of the diffuser was seen as a major problem.

### PRODUCTS

Belzona 1311 (Ceramic R-Metal)

Belzona 1341 (Supermetalgilde)

Belzona 2141 (ACR-Fluid Elastomer)

Belzona 5811 (Immersion Grade)

### SUBSTRATE

Cast Iron

### APPLICATION METHOD

The application was carried out in accordance with Belzona Know-How-System Leaflets CEP-1, CEP-3, CEP-4 and CEP-10. Damaged vanes were removed and reinstalled with mechanical metal stitching repair techniques. The surface was then coated with Belzona 1341. The edges of the diffuser blades were protected from further cavitation damage with Belzona 2141.

### BELZONA FACTS

Welding new inserts onto the blades was impossible, so Belzona, in essence, gave a new life to this equipment. Not only repairing the damage, but Belzona will protect the pump for the long term from the effects of corrosion, erosion and cavitation, as well as improve its efficiency.

### PICTURES

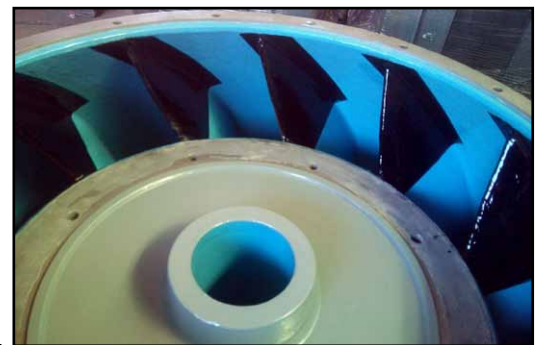
1. Evident damage to the vanes
2. Casing lined and coated
3. Vanes repaired and edges protected with Belzona 2141
4. Completed application to pump components



1.



2.



3.



4.

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



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