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## **BELZONA® REPAIRS THIS VACUUM PUMP AND INCREASES ITS EFFICIENCY**

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### **CUSTOMER**

Fossil fuel power station in Australia

### **APPLICATION DATE**

November 1993

### **APPLICATION SITUATION**

Water ring vacuum pump for main condenser.

### **PROBLEM**

Corrosion damage to the end covers and impeller, as well as heavy souring of the gland packing locations on the impeller shaft caused insufficient vacuum pumping and loss of pressure.

### **PRODUCTS**

Belzona® 1131

Belzona® 1341 (Supermetalglide)

### **SUBSTRATE**

Cast iron and steel

### **APPLICATION METHOD**

The application was carried out in accordance with Belzona Know-How System Leaflets MPT-1 and CEP-7. The pump rotor was protected with Belzona® 1341 (Supermetalglide) and Belzona® 1131 was used to rebuild the gland packing location on the rotor shaft as well as the end covers to provide a low friction surface.

### **BELZONA FACTS**

Customer achieved an increase in efficiency. In particular the end covers were rebuilt with Belzona® 1131 for additional security in service. As the clearances increase between the vanes of the rotor and the end covers, the Belzona® 1131 will prevent hang up, and provide a smooth hydrodynamic surface.

### **PHOTOS**

1. Scored area of the shaft.
2. Undercoat area of the damaged shaft.
3. Application of Belzona® 1131.
4. The rebuilt shaft after machining of Belzona® 1131.



1.



2.



3.



4.

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