

## BELZONA REPAIR TO DIAPHRAGMS IN STEAM TURBINE

### CUSTOMER

Power Plant in Indianapolis

### APPLICATION DATE

February 1995

### APPLICATION SITUATION

Diaphragms in steam turbine

### PROBLEM

Severe erosion/ corrosion of the turbine diaphragms in the the latter stages of the low pressure side of the steam turbine. This had been caused by many years exposure to saturated steam and had resulted in a decrease in efficiency in the turbine.

### PRODUCTS

Belzona® 1311 (Ceramic R-Metal)

Belzona® 1391 (Ceramic HT Metal)

### SUBSTRATE

Cast Iron

### APPLICATION METHOD

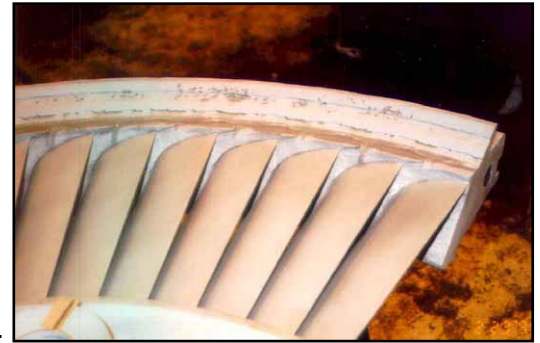
Modified versions of Belzona Know-How System Leaflets CEP-5 and CEP-3. Belzona® 1311 was used to rebuild the damaged areas. Sites rebuilt were then treated with two coats of Belzona® 1391.

### BELZONA FACTS

Welding was considered as an alternative method of repair. Downtime would have increased from three days, utilising Belzona, to three weeks if welding had been chosen.

### PICTURES

1. Erosion damage on the diaphragm
2. Application of Belzona® 1311 to restore profiles
3. Application of Belzona® 1391 underway



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



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