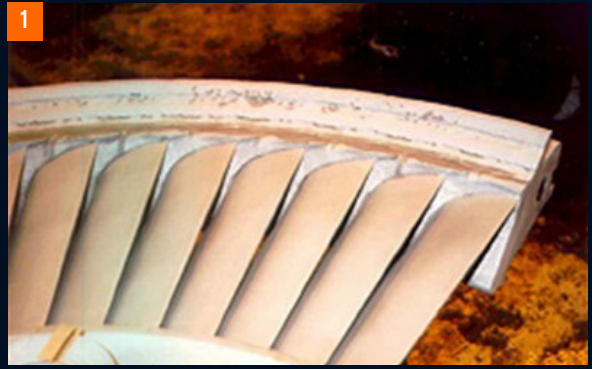


BELZONA REPAIR TO DIAPHRAGMS IN STEAM TURBINE

ID: 126



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.

APPLICATION SITUATION

Diaphragms in steam turbine

APPLICATION METHOD

Modified versions of Belzona Know-How 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.

INDUSTRY

Power

LOCATION

Power Plant in Indianapolis

APPLICATION DATE

February 1995

PRODUCTS

Belzona 1311(Ceramic R-Metal)
Belzona 1391

SUBSTRATE

Cast Iron

PHOTOS

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 khia.belzona.com

Belzona products are manufactured
under an ISO 9001 Registered
Quality Management System.

www.belzona.com

