

BELZONA REINFORCES AND PROTECTS TURBINE

ID: 5323



PROBLEM

The GE Turbine was partially disassembled for inspection. 7th stage blades being replaced in HP turbine section. Stationary diaphragms of last two stages of LP turbine section were removed for inspection and it was determined that they had been rebuilt with Belzona 1311 two outages prior (16 years ago!). The customer wanted to ensure many more years of service.

APPLICATION SITUATION

GE Turbine.

APPLICATION METHOD

Only one power pack of Belzona 1311 was needed to repair four diaphragm halves and four casing bells. The application was carried out in accordance with Belzona Know-How System Leaflet CEP-1.

BELZONA FACTS

Following inspection from a scheduled outage for the plant confirmed that the GE Turbine that previously applied Belzona 1311 on the equipment had held up for 13 years! The customer elected to rehab same repairs! The application was accomplished in one day, start to finish, and did not negatively impact the planned outage by causing any further delay. Belzona 1311 had held up remarkably well, but all parties made the decision to blast off the existing Belzona that remained on the diaphragms and re-apply Belzona 1311 to ensure many more years of service.

INDUSTRY

Power

LOCATION

MO, USA

APPLICATION DATE

October, 2004

PRODUCTS

Belzona 1311 (Ceramic R-Metal)

SUBSTRATE

Steel

PHOTOS

1. Overview of the Power Plant
2. Stationary diaphragms removed for inspection
3. Blades showed signs of erosion so they were rebuilt
4. Application carried out for all four diaphragm halves showing one of the four finished repairs

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