

BELZONA 1511/1591 TAKE THE HEAT

ID: 1183



PROBLEM

Steam cuts in the metal diaphragm. Welding would distort the flange and a short outage caused them to come to Belzona for an unconventional alternative.

APPLICATION SITUATION

The LP turbine flange on a steam generator turbine.

APPLICATION METHOD

Application carried out in accordance with Belzona Know-How System Leaflet GSS-6.

Belzona® 1511 used to rebuild damage (up to 1/2"), then machined to profile before coating with Belzona® 1591.

BELZONA FACTS

Time for welding was too long. Welding may distort the flange. Belzona 10% the cost of the alternative. After five years it was inspected and only minor touch up required.

INDUSTRY

Power

LOCATION

Tennessee Valley Authority, North Alabama U.S.A.

APPLICATION DATE

November 2003

PRODUCTS

Belzona 1511 (Super HT Metal) Belzona 1591 (Ceramic XHT)

SUBSTRATE

Cast steel

PHOTOS

1. Eroded flange before repairs
2. Belzona 1511 being used to build back the edges and steam cut areas
3. Belzona 1511 built back to original profile and ready to machine
4. Belzona 1591 coated after the two pieces put together for machining

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

