

BELZONA® 1511/1591 TAKE THE HEAT

ID: 1183

Industry: Power

Customer Location: Tennessee Valley Authority, North Alabama U.S.A.

Application: GSS-Gaskets, Seals and Shims

Application Date: November 2003

Substrate: Cast steel

Products: <div>
</div>Belzona® 1511 (Super HT Metal)<div>Belzona® 1591 (Ceramic XHT)</div>

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.



Photograph Descriptions

* Eroded flange before repairs , * Belzona® 1511 being used to build back the edges and steam cut areas , * Belzona® 1511 built back to original profile and ready to machine , * Belzona® 1591 coated after the two pieces put together for machining ,

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.

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

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

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