

Demonstrated Longevity in an FGD Repair

ID: 892

Industry: Power

Customer Location: Coal-Fired Power Plant - Cumberland City, Tennessee USA

Application: VPF-Valves, Pipes and Fittings

Application Date: November 2005

Substrate: FRP - Fiber Reinforced Polymer

Products: * Belzona® 5891 (HT Immersion Grade) ,
* Belzona® 1391 (Ceramic HT) ,

Problem

Lime slurry from the four spray levels above had caused an existing polyurea coating to fail exposing the relatively soft FRP piping to the erosive forces of the lime slurry. Should the piping become holed, side streams would decrease the overall scrubbing efficiency resulting in increased operating costs.



Photograph Descriptions

- * Exterior of the FGD at the spray level ,
- * Severely damaged FRP pipe caused by lime slurry ,
- * Completed Belzona application to one of six lime slurry header pipes ,
- * Belzona repair after seventeen months in service ,

Application Situation

Flue gas desulfurization scrubber operating at 200°F (93°C) comprised of five spray levels each with six lime slurry pipes.

Application Method

Belzona® 5891 and Belzona® 1391 were applied in accordance with a modified Belzona Know-How System Leaflet VPF-2.

Belzona Facts

Replacement of existing tapered FRP piping would have required an unacceptably long lead time and was considered prohibitively expensive. Belzona was selected because the repair can be conducted quickly and inexpensively in situ while providing the required abrasion, temperature, and chemical resistance.

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

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FS 695214
ISO 14001:2015
EMS 695213

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