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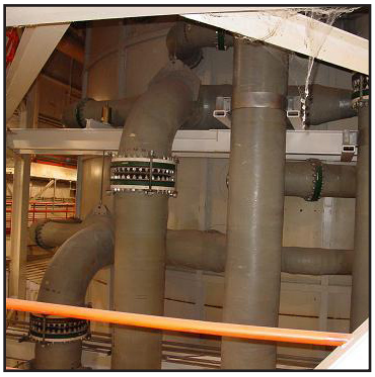
BELZONA®

CASESTUDY

Demonstrated Longevity in an FGD Repair



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

STATISTICS

CUSTOMER
Coal-fired power plant,
Cumberland City, TN, USA

APPLICATION DATE
November 2005

SUBSTRATE
Fiber Reinforced Polymer (FRP)

PRODUCTS
Belzona® 1391
Belzona® 5891

APPLICATION SITUATION

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

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.

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.

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