

AirPol Retro-fit Power Boiler Venturi updates original AirPol scrubber in operation since 1974



Challenge: Develop a “solution” resulting from growth and new control requirements

Goals:

The Mill needed to refurbish one of the two AirPol supplied coal and bark-fired Power Boiler Venturi Scrubbers that had been in continuous service for over 44 years. The original single leaf throat damper would no longer move freely to provide good control of operating pressure drop that was desired.

Solution:

AirPol supplied our newer D-F design as a replacement that uses two symmetrical damper blades actuated by a center mounted pneumatic cylinder with link arms. This “bomb-bay” door type of damper arrangement provides more precise control and ensures better scrubber efficiency as a result.

Conclusion:

The retro-fit was easily installed on the #1 Power Boiler Venturi and Mill personnel were impressed with the fabrication build quality, fit and finish of the new D-F Throat. The smooth movement of the new damper mechanism and the restored control was much better than anyone had expected. The Mill plans to retro-fit the #2 Boiler Scrubber in the near future in the exact same way.

Project at a Glance

Application:

Power Boiler Venturi updates

Location:

Roanoke Rapids, NC, USA

Industry:

Power

Year Installed:

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