

Asheville Station Units 1 and 2 Wet Flue Gas Desulfurization Systems

Project Case History

Progress Energy Skyland, North Carolina

Babcock & Wilcox Power Generation Group, Inc.'s (B&W PGG) wet flue gas desulfurization (FGD) systems feature a combination of design components to provide a high level of reliability and removal efficiencies. These include B&W PGG's signature tray tower design to provide excellent gas to liquid contact and uniform flow distribution through the absorber spray zones, its patented inlet awning, forced oxidation system, and advanced mist eliminators.

Boiler/Plant Information

- 2 x 200 MW
- Boiler type: Pulverized coal fired
- Design fuel: Bituminous
- Additional environmental equipment: Electrostatic precipitator and selective catalytic reduction system

- System designed to remove 97% of the entering SO₂ without organic acid addition
- Type: Limestone forced oxidation with gypsum byproduct
- Commercial operation: November 2005 and May 2006

Project Summary

- Engineering, procurement and commissioning of a wet FGD system

B&W PGG Scope

- Two (2) wet FGD absorbers – functional design, process equipment and tower internals



(Continued on reverse side)

by B&W PGG, tower structure by Stebbins

- Two (2) limestone milling systems (1 operating, 1 spare)
- Four (4) gypsum centrifuges (3 operating, 1 spare)

Results

The project met engineering, fabrication and delivery objectives. The commissioned units met or exceeded performance guarantees. The project also earned the Best Coal-Fired Project Honorable Mention award at the 2006 POWER-GEN International Conference and Exhibition.



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