Wet Flue Gas Desulfurization Systems
Units 1, 2 and 3

The wet flue gas desulfurization (FGD) system from Babcock & Wilcox Power Generation Group, Inc. (B&W PGG) features 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 that provides excellent gas to liquid contact and uniform flow distribution through the absorber spray zones; its patented inlet awning; interspatial headers to reduce absorber height, pump power requirements, and internal support costs; forced oxidation system; and advanced mist eliminators.

Boiler/Plant Information
- 3 x 676 MW
- Boiler type: Pulverized coal fired
- Design fuel: Bituminous
- Additional environmental equipment: Electrostatic precipitator (ESP) and selective catalytic reduction (SCR) system

Project Summary
- Engineering, procurement and construction of a wet flue gas desulfurization system
- System designed to remove 97% of the entering SO₂ without organic acid addition
- Type: Limestone forced oxidation with gypsum byproduct
- Project awarded: April 2004

(Continued on reverse side)
• Two additional B&W PGG absorbers scrubbing a fourth boiler at the plant.

**B&W PGG Scope**

• Three (3) wet FGD absorbers (1 per boiler)
• Three (3) limestone milling systems (1 system per boiler)
• Gypsum dewatering system that includes four (4) horizontal table filters (3 operating, 1 spare)
• Construction of all B&W PGG supplied equipment through Babcock & Wilcox Construction Co., Inc. (BWCC), a B&W PGG subsidiary

**Results**

The project met every engineering, fabrication and construction schedule milestone. The commissioned units have met performance guarantees.