

John W. Turk, Jr. Unit 1

Southwestern Electric Power Company
American Electric Power
Fulton, Arkansas

Plant Owner

Southwestern Electric Power Company, American Electric Power

Plant Name

John W. Turk, Jr. Unit 1

Location

Fulton, Arkansas

Contract Order

2006

Commercial Operation

2012

B&W PGG Scope

- Ultra-supercritical coal-fired boiler with air quality control system
- Construction by Babcock & Wilcox Construction Co., Inc.
- Startup and commissioning advisory services
- Training

Boiler Specifications

- Boiler type: Pulverized coal-fired spiral wound universal pressure (SWUP) ultra-supercritical boiler
- Design fuel: Low sulfur Powder River Basin coal
- Nominal capacity: 600 MW net
- Steam flow: 4,419,400 lb/h (557 kg/s)



The 600 MW John W. Turk, Jr. Power Plant features ultra-supercritical boiler clean coal combustion technology and advanced emissions control equipment.

- Superheater outlet pressure: 3789 psig (26.2 MPa)
- SH/RH outlet temperature: 1114/1126 F (601/608 C)

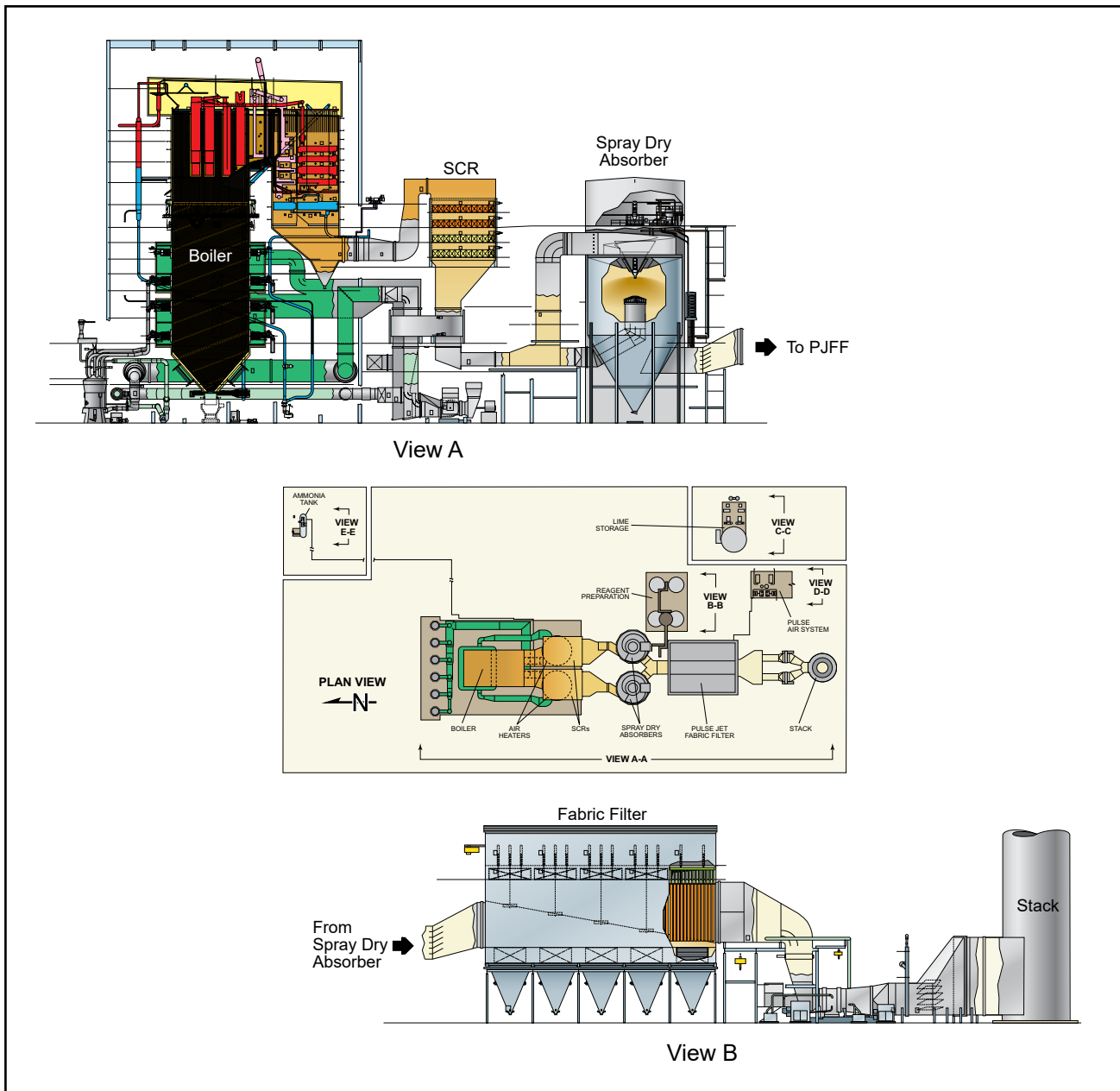
Environmental Equipment

- DRB-4Z[®] low NO_x burners and overfire air
- Selective catalytic reduction (SCR) NO_x removal system
- Spray dry absorber flue gas desulfurization system
- Pulse jet fabric filter particulate collector

Other Equipment Supplied by B&W PGG

- B&W Roll Wheel[®] pulverizers, Series 98
- Convection pass and Hydrojet[®] sootblower boiler cleaning systems by Diamond Power International, Inc., a B&W PGG subsidiary
- Powerclean[™] intelligent sootblowing system

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Sectional sideview of John W. Turk, Jr. unit 1 boiler with air emissions control equipment.

Babcock & Wilcox
 1200 E Market Street, Suite 650
 Akron, Ohio, U.S.A. 44305
 Phone: +1 330.753.4511



www.babcock.com    

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