

Dry Fork Station

Basin Electric Power Cooperative
Wyoming Municipal Power Agency
Gillette, Wyoming

Plant Owner

Basin Electric Power Cooperative
Wyoming Municipal Power Agency

Plant Name

Dry Fork Station

Location

Gillette, Wyoming

Contract Order

2007

Commercial Operation

2011

B&W PGG Scope

- Coal-fired boiler with air quality control equipment
- Construction by Babcock & Wilcox Construction Co., Inc.
- Startup and commissioning advisory services
- Training

Boiler Specifications

- Boiler type: Pulverized coal-fired radiant drum boiler (RB Carolina-Type)
- Design fuel: Low sulfur Powder River Basin sub-bituminous coal
- Nominal capacity: 400 MW net
- Steam flow: 2,887,000 lb/h (364 kg/s)



The 400 MW Dry Fork Station features a RB Carolina-type pulverized coal-fired boiler and B&W AireJet® low NO_x burner technology.

- Superheater outlet pressure: 2483 psig (17.1 MPa)
- SH/RH outlet temperature: 1055/1055 F (568/568 C)
- Sootblower boiler cleaning systems by Diamond Power International, Inc. (DPII), a B&W PGG subsidiary
- Powerclean® intelligent sootblowing system
- Dry bottom ash system by Allen-Sherman-Hoff, a division of DPII

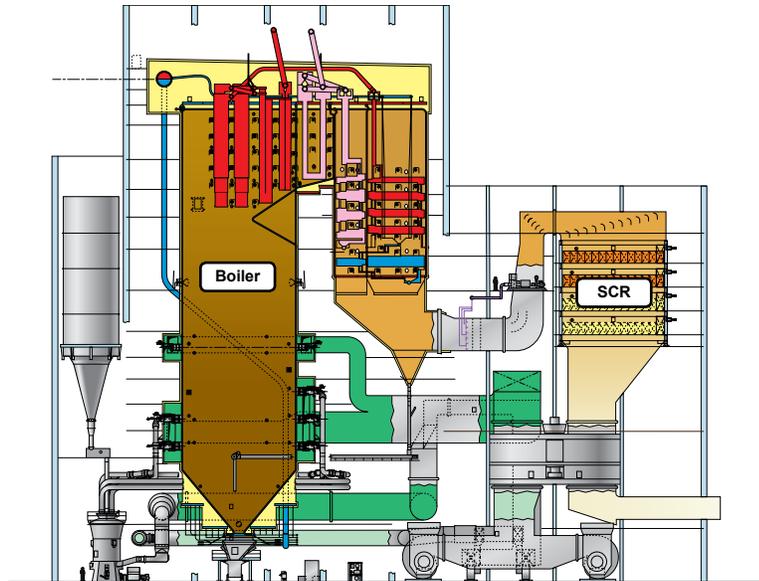
Environmental Equipment

- B&W AireJet® low NO_x burners and overfire air
- Selective catalytic reduction (SCR) NO_x removal system

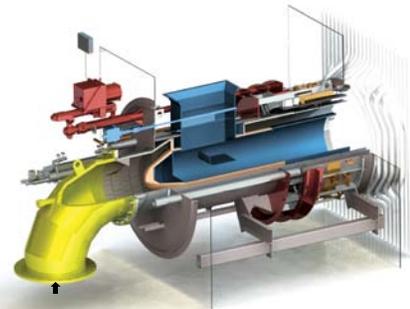
Other Equipment Supplied by B&W PGG

- B&W Roll Wheel® pulverizers, Series 89

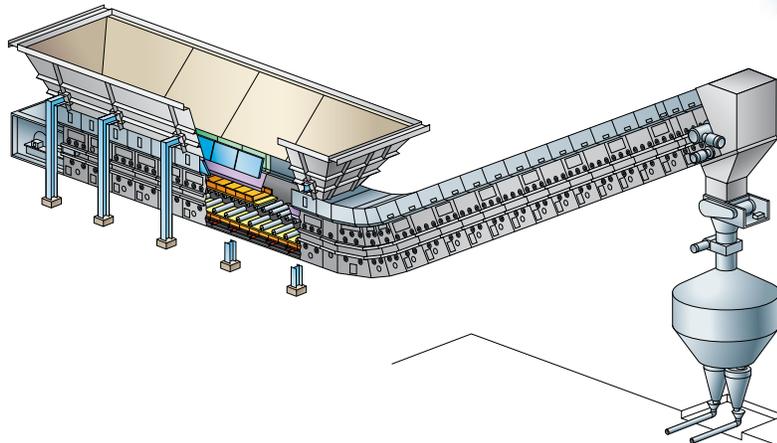
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AireJet® Low NO_x Coal Burner



Dry Bottom Ash System - by Allen Sherman-Hoff



Sectional sideview of the Dry Fork Station boiler with environmental equipment and dry bottom ash system.

delivering
proven results

www.babcock.com

Babcock & Wilcox Power Generation Group, Inc.

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