Weston Unit 4

Plant Owner
Wisconsin Public Service

Plant Name
Weston Unit 4

Location
near Wausau, Wisconsin

B&W Scope
- Supercritical coal-fired boiler with air quality control system
- Construction by Babcock & Wilcox Construction Co., Inc. (BWCC)
- Startup and commissioning advisory services
- Training

Boiler Specifications
- Boiler type: Pulverized coal-fired Spiral Wound Universal Pressure (SWUP™)-type supercritical boiler
- Design fuel: Low sulfur Powder River Basin coal
- Capacity: 530 MW net
- Steam flow: 3,641,000 lb/h (458 kg/s)
- Superheater outlet pressure: 3775 psig (26 MPa)
- SH/RH outlet temperature: 1085/1085 F (585/585 C)

Environmental Equipment
- DRB-4Z® low NOx burners and overfire air
- Selective catalytic reduction (SCR) NOx removal system
- Dry flue gas desulfurization (FGD) system
- Pulse jet fabric filter particulate collector
- Powdered activated carbon injection system for mercury removal

Other Equipment Supplied by B&W
- B&W Roll Wheel® pulverizers, Series 89
- Diaond Power® Hydrojet® and sootblower boiler cleaning system
- Powerclean™ intelligent sootblowing system

Contract Order
2004

Commercial Operation
2008

The Weston 4 supercritical boiler utilizes spiral furnace tube technology that provides flexible and reliable operation.

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Established in 1867, Babcock & Wilcox is a global leader in advanced energy and environmental technologies and services for the power and industrial markets, with operations, subsidiaries and joint ventures worldwide.

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