

# Weston Unit 4

## Wisconsin Public Service Wausau, Wisconsin

### 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 NO<sub>x</sub> burners and overfire air
- Selective catalytic reduction (SCR) NO<sub>x</sub> 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
- Hydrojet® and sootblower boiler cleaning system by Diamond Power International, Inc., a B&W subsidiary
- Powerclean™ intelligent sootblowing system



Weston site aerial view during construction.

### Contract Order

2004

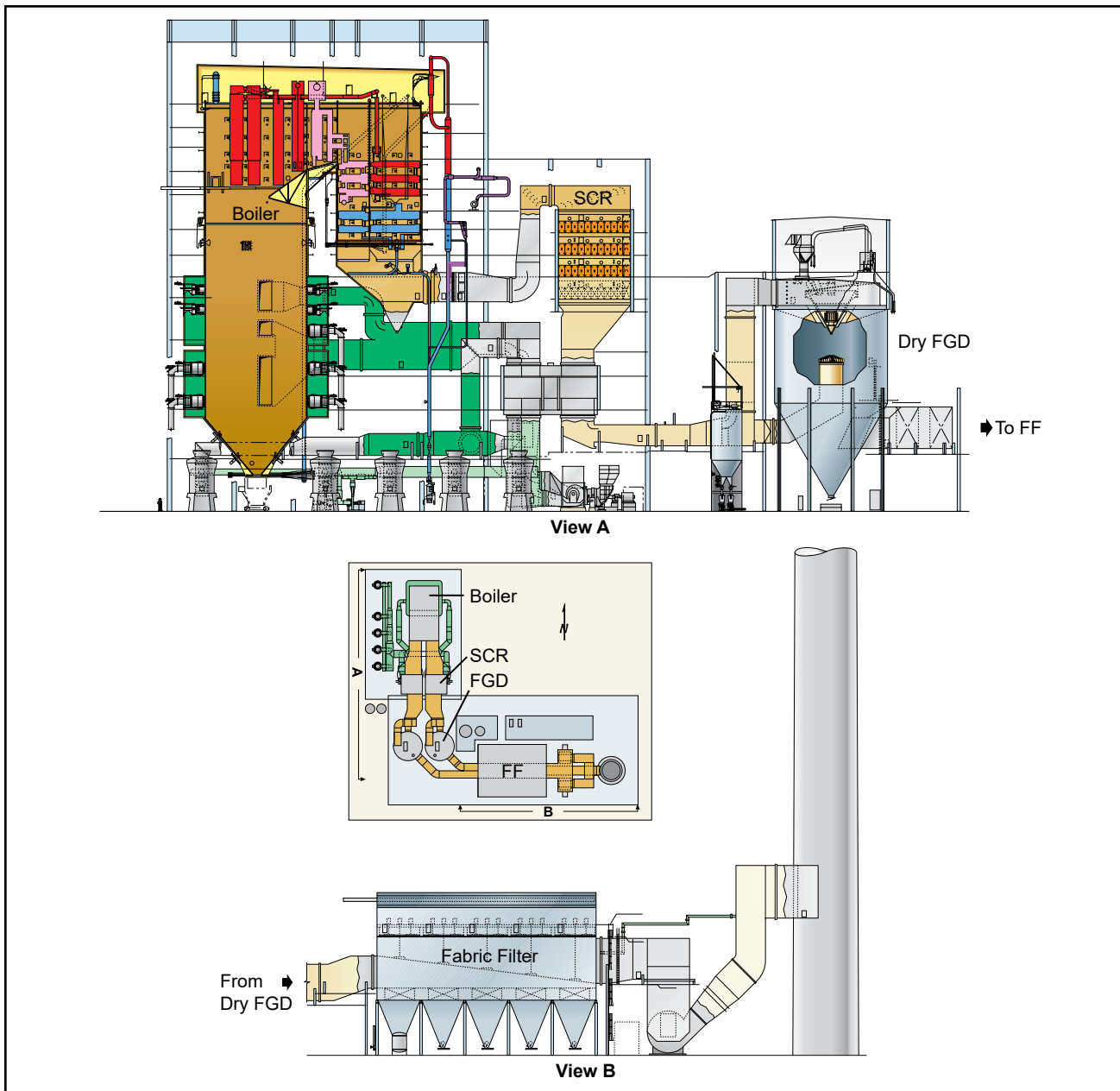
### Commercial Operation

2008



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

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Sectional sideview of Weston 4 boiler with air quality control equipment.

## Babcock & Wilcox

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