

Dry Fork Station

Circulating fluidized bed scrubbing technology



Project summary
 Location: Gillette, WY, USA
 Customer: Nooter/Eriksen
 Duration: 2009-2011
 Scope: Design and supply of CFB scrubber

- ▶ Sumitomo SHI FW supplied the circulating fluidized bed scrubber behind a new 420 MWe PC boiler.
- ▶ Our scope included the design and supply of the absorber, pulse jet fabric filter, ash recirculation system, water injection system and lime dry hydrator.

Plant electrical output	420 MWe @ 4,300 ft	500 MWe @ SL
Fuel	Subbituminous PRB coal	
CFB scrubber flue gas flow	1.8 million ACFM	3.1 million m3/hr
Flue gas temperature	294°F	146°C
SO2 removal	Up to 97%	
SO3 removal	Up to 96%	
PM removal	Up to 99.9%	
Hg removal	Up to 60%	Up to 80% with PAC

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Our vision is to provide sustainable energy solutions through decarbonization, decentralization and digitalization of the energy industry. Our capabilities cover customer needs in the fields of power generation utilizing circulating fluidized bed (CFB) technologies, long term energy storage, and related network services. We continuously broaden our portfolio of products and services by advancing our in-house technologies and developing further alliances with new partners.

Our Values

Respect for people.

Valuing and inviting differing views and ideas

Committed to customers.

Exceeding expectations and providing value

Safety, integrity and teamwork.

Incorporating ethics in everything we do

Ownership of results.

Personally ensuring that success is achieved

Passion to innovate and grow.

Setting challenging goals for growth



Sumitomo
SHI **FW**