



Fort Martin Power Station

Maidsville, West Virginia

Award Number: DE-CD-0000171

Period: October 2026 to April 2029



Coal Handling Optimization

Station Background

- **Fort Martin 1 was commissioned in 1967 and has a net generating capacity of 552 MW**
- **Fort Martin 2 was commissioned in 1968 and has a net capacity of 546 MW**
- **Environmental Controls**
 - Low NO_x Burners
 - Selective Noncatalytic Reduction (SNCR)
 - Wet Flue Gas Desulfurization (WFGD)
 - Electrostatic Precipitators (ESP)
 - GORE Technology for Mercury control
 - FGD Wastewater Treatment via Phys-Chem and Biological systems
- **Each unit has a dedicated hyperbolic cooling tower**
- **The station consumes over 2.8M tons of locally sourced bituminous coal annually that is transported primarily by barge via the Monongahela River**

REFERENCE NORTH

MONONGAHELA RIVER

BRADFORD BREAKER

PROPOSED NEW CRUSHER BUILDING

TRANSFER HOUSE

DEAD CONE STORAGE AREA

INTERSECTION OF CENTER LINES

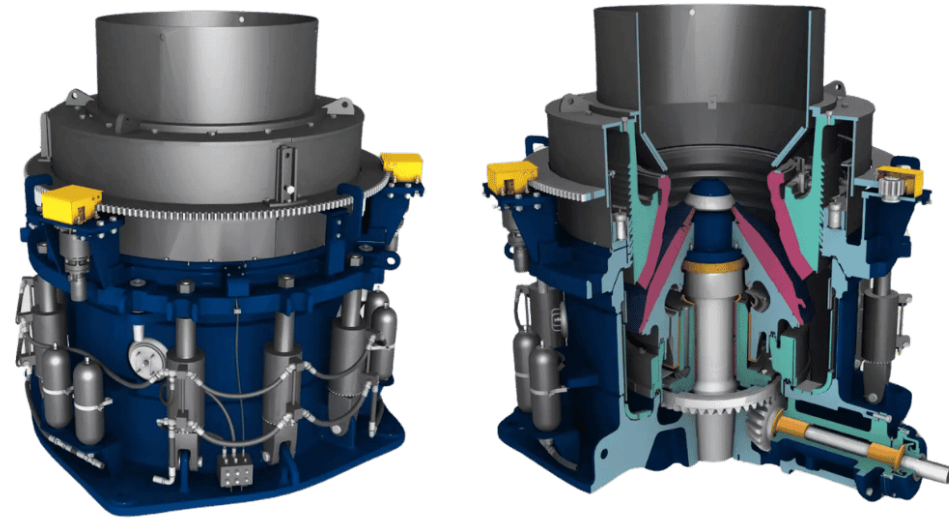
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Project Scope

- **Install two redundant 500 TPH FLSmidth Raptor cone crushers, one each in coal Reclaim Conveyors 7A & 7B supplying the unit coal silos**

- **Benefits:**

- Enhance station reliability by eliminating the Bradford Breaker as a single point of failure
- Modernize the fuel handling system to keep Fort Martin a viable source of energy for MonPower's customers until 2050 and beyond
- Full redundancy in the coal supply during maintenance and repairs
- Size the coal in the reclaim system immediately before consumption, rather than in the barge unloading system before open stockpile
- Reduce impact of wet weather events (plugged chutes, feeders, etc) by stockpiling coal in its coarser, as-received form



Execution Strategy

- **Engineering – Develop detailed engineering packages for civil, mechanical, and electrical scope**
 - Foundation/structural, motor and gearbox sizing, conveyor structure modifications, chute and diverter gate, MCC power requirements, control logic, etc
- **Procurement – Long lead items: cone crushers, deck screens, MCC/switchgear**
- **Preliminary Construction – Civil site prep, building foundations, partial building erection while long lead materials are being procured**
- **Crusher installation – “A” and “B” Crusher installation, transfer chutes, electrical and controls install**
- **Preliminary Commissioning – Functional testing and commissioning of equipment with no product throughput**
- **System Tie-ins – Tie-in and commission each new crusher in the reclaim conveyors one at a time, while maintaining fuel supply to the plant on the redundant conveyor.**
- **Bypass existing Bradford Breaker**

Project Cost & Schedule

- **Estimated Total Project Cost: \$8.55 Million**
- **Dept of Energy Award: \$4.27 Million**
- **MonPower Cost Share: \$4.27 Million**

Construction Schedule									
Task	2027				2028				2029
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Detailed Engineering	X	X							
Procurement			X	X	X	X			
Preliminary Construction			X	X					
Crusher Installation						X	X	X	
System Tie-ins								X	
Bradford Breaker Bypass									X

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