

W.H. Sammis Plant Retrofit Project



Sammis Retrofit Project—installing air quality control systems on seven units, totaling 2,200 MW

Bechtel is providing engineering, procurement, construction, and startup services for the W.H. Sammis Plant Retrofit Project along the Ohio River near Stratton, Ohio. The project, scheduled for completion by the end of 2010, encompasses the installation of air quality control systems and supporting infrastructure on seven pulverized-coal-fired power plant units (totaling 2,200 MW) constructed between 1959 and 1971. The power plant occupies a narrow strip of land between a four-lane highway bordering the Ohio River and a high bluff.

The scope of work includes three wet flue gas desulfurization (FGD) units exhausting to a single 850-foot chimney with three flues, new booster fans, limestone and gypsum handling, makeup and wastewater treatment, flue gas ductwork, electrical supply and distribution, control system components, and other support facilities. Bechtel, acting as the Owner's agent, is managing the activities of the FGD process systems subcontractor.

A CUSTOMER-FOCUSED, COLLABORATIVE APPROACH TO EMISSIONS CONTROL

In undertaking the Sammis project, the result of a federally mandated air quality compliance initiative, the customer expressed a desire to explore a number of technology and design options. Collaborating closely with the customer, Bechtel worked to narrow the technical alternatives, with the customer's objectives guiding the selection process. Once mutual agreement was reached on a scope of work, Bechtel utilized its EPC capabilities to manage execution of the project.



Location:

Ohio, USA

Customer:

FirstEnergy

Scope of Services:

Project Management
Engineering
Procurement
Construction
Startup

Project Completion:

2010

Units and Megawatts:

Seven units, 2,200 MW



Significant Features/ Accomplishments:

- Air quality control systems installed on seven PC-fired units, totaling 2,200 MW
- FGD system was designed to remove 95 percent of sulfur dioxide from emissions
- System includes 9,000 feet (2,743 meters) of flue gas duct
- Bechtel coordinated placement of 17 heavy-lift cranes on congested 5-acre (2-hectare) site

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