



Major Power Supplier
North Carolina

Scope of Work:

Southern Environmental, Inc. provided detailed engineering, material supply, fabrication, construction management, a 1/12 scale physical model study, electrical wiring, foundation, field construction, insulation and cladding, painting and start-up services for Unit #3 & Unit #4 Electrostatic Precipitator replacement.

The new precipitator is upstream of a new FGD. The unique construction approach allowed for the addition of a future SCR to be located upstream of the ESP and reduced projected outage time by 50%.



Fabrication and Construction Services:

- Caisson Installation
- Structural Steel Fabrication and Construction
- ESP Fabrication and Construction
- Electrical Construction
- Ductwork Fabrication and Construction
- Project Management
- Site Management
- Insulation and Lagging
- Painting
- Lead Abatement

Application:

- 2- 700 MW Coal Fired Power Boiler Unit #3 & #4

Project Duration:

- PO Received: October 2004
- Mobilize: April 2005
- Demobilize: May 2007
- 12 week outage

Detailed Engineering in the following disciplines:

- Civil
- Structural
- Mechanical
- Electrical
- 1/12th Scale Physical Model Study

Performance Guarantee:

SEI provided a broad range of guarantees for twenty-five coals. Outlet Emissions: Ranging between 0.04 lb/MMBtu and 0.05 lb/MMBtu.

Opacities: Ranging between 12% Opacity and 10% Opacity Inlet Gas Flow: 2,512,000 ACFM at 320F°

