

Turnkey Installation of New Steam Facilities

DuPont Teijin Films U.S. – Florence, South Carolina

Client Benefits

DuPont Teijin Films U. S. was experiencing extremely high steam costs at its Florence, South Carolina polyester films plant. These costs were the result of operating an oversized, antiquated coal-fired boiler facility that required excessive maintenance and operating attention.

Peregrine helped DuPont Teijin significantly reduce these costs by designing and building a properly sized and automated gas-fired boiler plant.

The Opportunity

Peregrine performed an extensive evaluation and baseline cost study of the existing coal-fired plant as well as a comparative analysis of the cost of a new highly automated gas-fired facility. It was determined that significant money could be saved by retiring the coal-fired plant and replacing it with a new, automated gas-fired facility. The steam plant would also take advantage of a new distributive control system to consolidate other utilities and process controls into one centralized control room.

The Solution

Peregrine delivered a “turnkey” total solution meeting DuPont Teijin’s utility needs, including:

- Two 80,000 pph gas-fired package boilers
- Complete ancillary support equipment, burner assemblies, natural gas trains, No. 2 fuel oil trains, burner management systems, economizers, condensate make-up storage tank, FD fans, deaerator, boiler chemical feed pumps, fuel oil unloading facilities and a new building to enclose the steam plant
- New central boiler and utility control system and control room to incorporate all site utility operations

This project was completed within budget and on time and has already created significant savings in DuPont Teijin’s steam costs through increased operating efficiencies and further reduced total utility costs by consolidating site utility operations into one area.

