



SUCCESS STORIES

DANIEL

COMBINED CYCLE POWER PLANT, 565 MW

LOCATION ESCATAWPA, MS
CUSTOMER SOUTHERN COMPANY SERVICES
END USER MISSISSIPPI POWER

PROJECT OVERVIEW

Gas Turbine

- + Supplier: General Electric
- + Type: Frame 7FA (PG7241 FA)
- + Main Fuel: Natural Gas
- + Backup Fuel: N/A

HRSB

- + No. of Units: 2
- + Type: Horizontal gas path Natural Circulation, 3 Pressure Levels + Reheat Supplementary Duct Fire

	ENGLISH	METRIC
HP Steam Flow	423,023 lbs/hr	53.30 kg/s
HP Steam Pressure	1,882 psig	129.8 barg
HP Steam Temperature	1,055°F	568.3°C
Reheat Steam Flow	465,881 lbs/hr	58.70 kg/s
Reheat Steam Pressure	456 psig	31.4 barg
Reheat Steam Temperature	1,055°F	568.3°C
IP Steam Flow	55,557 lbs/hr	7.00 kg/s
IP Steam Pressure	485 psig	33.4 barg
IP Steam Temperature	624°F	328.9°C
LP Steam Flow	79,366 lbs/hr	10.00 kg/s
LP Steam Pressure	59 psig	4.1 barg
LP Steam Temperature	499°F	259.4°C



VOGT POWER SOLUTION

- + The units for Daniel have a very high degree of shop assembly (VPI's SMART-Box design concept).
- + Heat transfer surfaces were supplied in 14 "module boxes" that, after delivery to the site, were lifted into their structural steel framework.

PERFORMANCE RESULTS

The SMART-Box design allows for the fewest number of boiler parts sent to a jobsite resulting in lower installation costs and shorter construction periods.

