



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

HRSG

- + 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.

