Vogt Power International

A BABCOCK POWER INC. SUBSIDIARY

SUCCESS STORIES

PAYNE CREEK

COMBINED CYCLE POWER PLANT, 500 MW

LOCATION	WACHULA, FL, U.S.A.
CUSTOMER	SIEMENS WESTINGHOUSE POWER CORPORATION
END USER	SEMINOLE ELECTRIC COOPERATIVE

PROJECT OVERVIEW

Gas Turbine

- Supplier: Siemens Westinghouse
- Type: 501F(D)
- Main Fuel: Natural Gas
- Backup Fuel: Light Oil No. 2

HRSG

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

	ENGLISH	METRIC
HP Steam Flow	410,000 lbs/hr	51.66 kg/s
HP Steam Pressure	1,800 psig	124.1 barg
HP Steam Temperature	1,055°F	568.3°C
Reheat Steam Flow	490,000 lbs/hr	61.74 kg/s
Reheat Steam Pressure	450 psig	31.0 barg
Reheat Steam Temperature	1,055°F	568.3°C
IP Steam Flow	80,000 lbs/hr	10.08 kg/s
IP Steam Pressure	460 psig	31.7 barg
IP Steam Temperature	620°F	326.7°C
LP Steam Flow	85,000 lbs/hr	10.71 kg/s
LP Steam Pressure	75 psig	5.2 barg
LP Steam Temperature	600°F	315.6°C

VOGT POWER SOLUTION

- HRSGs are of the horizontal gas path natural circulation type and feature three pressure levels plus reheat
- Heat transfer surfaces were supplied in "bundles" that, after delivery to the site, were lifted into position and then welded to their casings and structural steel framework

PERFORMANCE RESULTS

- Meets the growing electricity needs and the overall power demand in Florida.

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