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SUCCESS STORIES

L.V. SUTTON PLANT

COMBINED CYCLE POWER PLANT

LOCATION	WILMINGTON, NC, U.S.A.
CAPACITY	665 MW OUTPUT
START-UP	2012

PERFORMANCE MEASUREMENTS

	ENGLISH	METRIC
HP Steam Flow	765,809 lb/h	347,371 kg/h
HP Steam Pressure	2411 psig	166 barg
HP Steam Temperature	1058°F	570°C
RH Steam Flow	791,445 lb/h	358,999 kg/h
RH Steam Pressure	510 psig	35 barg
RH Steam Temperature	1055°F	568°C
IP Steam Flow	90,514 lb/h	41,057 kg/h
IP Steam Pressure	571 psig	39 barg
IP steam Temperature	650°F	343°C
LP Steam Flow	72,019 lb/h	32,668 kg/h
LP Steam Pressure	118 psig	8 barg
LP Steam Temperature	679°F	359°C

PROJECT OVERVIEW

- Project name: L.V. Sutton Plant
- Plant type: Combined Cycle Power Plant
- Customer: Duke Energy
- End user: Duke Energy
- Year ordered: 2010
- Operational: 2012
- Gas turbine supplier: Siemens
- Type: SGT6-5000F (FD4)
- Main fuel: Natural gas
- Alternate fuel: Fuel oil
- Number of HRSGs: 2

HRSG Attributes:

- Horizontal, natural circulation
- SMART design
- Three pressure levels + Reheat
- Fired