

BTEC TURBINES LP

GE FRAME 7EA GAS TURBINE & EQUIPMENT



TURBINE

Model: PG7001EA
Emission controls: Dry Low NOx (DLN) combustion system
Output/Heat rate (ISO): 84.36 MW and 10,480 btu/kwh
Inlet/Exhaust: Pressure drop: 3.5/5.5 Inches of H₂O
Fuel: Natural gas
Hours: Approximately 150 hours
Control System: Mark VI SPEEDTRONIC Triple Modular Redundant (TMR)

GENERATOR

Manufacturer: Brush
Frame Size: BDAX 8-365ER (Brushless)
Excitation System: GE EX2000
Terminal voltage: 13.8 kV (2-Pole, 3-Phase, Wye Conn.)
Frequency/Power Factor: 60 Hz/0.85 pf
Rated Output (15°C inlet air): 86.53 MW/101.8 MVA
Cooling: Air-cooled

AUXILIARY EQUIPMENT

Fire Protection System: Chemetron CO₂ system
Control Building: 25 ft x 11.5 ft climate controlled building
Air Inlet Filter: Donaldson w/air inlet heating system and inlet fogging system
Exhaust Stack: 92 foot stack with CEMS unit
Cooling Water System: Closed loop fin-fan cooler with expansion tank and pump skid
Battery System: 125VDC charger and batteries

BALANCE OF PLANT EQUIPMENT

Generator Step up Transformer: Ferranti Packard, 13.8 kV primary, 230 kV secondary, 200 MVA
Auxiliary Transformers: 13.8 kV to 4160 V and 13.8 kV to 480 V, two winding, delta-Wye
Switchyard: SF6 breaker, air switches and associated equipment
Inlet Gas Scrubber and Filter: 22,000 scfm, 375 psig
Electric Fuel Gas Heater: 600 psig, -20 to 200°F, 5 psid, 500 kW
Water Wash System: On-line and off-line skid mounted system



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To learn more about how BTEC can solve your need for power, call 281-864-9122.