

**BTEC TURBINES LP**

**GE FRAME 7E GAS TURBINE & EQUIPMENT**



**TURBINE**

**Model:** MS7000B STAG/uprated to E status  
**Emission controls:** Dry Low NO<sub>x</sub> (DLN) combustion system  
**Output (ISO)/Heat rate:** 65 MW @ 10,999 btu/kwh  
**Inlet/Exhaust:** Pressure drop: 4.0/5.0 Inches of H<sub>2</sub>O  
**Fuel:** Natural gas  
**Control System:** Turbo-Tronics

**GENERATOR**

**Manufacturer:** GE  
**Type:** D235T4  
**Excitation System:** Basler – Regulator 357501FS141  
**Terminal voltage:** 13.8 kV (2-Pole, 3-Phase, Wye Conn.)  
**Frequency/Power Factor:** 60 Hz/0.9 pf  
**Rated Output (15°C inlet air):** 71.9 kVA  
**Cooling:** Air-cooled

**AUXILIARY EQUIPMENT**

**Fire Protection System:** Chemetron CO<sub>2</sub> system  
**Control Building:** 25 ft x 11.5 ft climate controlled building  
**Air Inlet Filter:** Inertial separator with replaceable media filters  
**Exhaust Stack:** 45 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:** 13.8 kV primary, 500 kV secondary, 208 MVA  
**Auxiliary Transformers:** 13.8 kV to 4160 V and 13.8 kV to 480 V  
**Switchyard:** SF6 breaker, air switches and associated equipment  
**Water Wash System:** On-line and off-line systems  
**Deminerlized Storage Tank:** 2,000 gallon  
**Fire/Raw Water Storage Tank:** 120,000 gallon



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