



**27000 KW GE BACKPRESSURE STEAM TURBINE GENERATOR SET**

**STEAM TURBINE:**

Manufacturer: General Electric  
Type: double extraction back pressure  
Rating: 31,500 kw  
Inlet steam: 600 psig/750 °F  
Maximum inlet steam flow: 600,000 lbs/hr  
Extraction steam:  
    Auto Extraction 150 psig 0 – 500,000 lbs/hr  
    Auto Extraction 75 psig 0 - 500,000 lbs/hr  
Exhaust steam: 40 psig 100,000 – 300,000 lbs/hr  
Maximum Exhaust steam flow: 300,000 lbs/hr  
Steam rate at zero all extractions  
    13,000 kw 23/1 lbs/kwh  
Number of stages: 9  
Inlet steam size: 2 x 12" side  
Extraction steam -1 24" down  
Extraction steam -2 24" down  
Exhaust steam: 30" down  
Speed: 3600 rpm  
Rotation: CCW from governor end

**GENERATOR:**

Manufacture/Type: General Electric/5A4 /TEWAC  
Rating: 31,765 kva, 13800 v, 3 phase, 60 hz  
Amps: 1,329  
Field: 125 v dc, 715 amps  
PF: 0.85  
Exciter: Kato PMG , brushless type  
Speed: 3600 RPM

**SCOPE OF SUPPLY**

Steam Turbine complete  
Generator with terminal box  
Inlet stop valves  
Lube oil system  
Gland steam condenser  
Condenser  
Turbine control panel  
Generator breaker and control panel

**HISTORY:**

Year manufactured: 1995  
Last overhaul 2017  
Year shutdown 2018