



**11775 KW SIEMENS CONDENSING STEAM TURBINE GENERATOR SET**

**STEAM TURBINE:**

Manufacturer: Siemens (Westinghouse) down Exhaust  
Type: M2533A3,  
Rating: 11775 kw Maximum: 13438 kw  
Inlet steam: 600 psig/750 °F  
Maximum inlet steam flow: 127,779 lbs/hr  
Extraction steam just for 2 heaters and deaerator  
Exhaust steam: 2.5" HgA  
Maximum Exhaust steam flow: 108,840 lbs/hr  
Steam rate @ 11775 kw , 112,434 lbs/hr, 9.55 lbs/kwh  
Number of stages: 10  
Inlet steam size: 8" class 600  
Speed: 5985 rpm  
Rotation: CW from governor end

**GEAR REDUCER:**

Manufacturer: Lufkin  
Model number: NF24070, S/N 4724  
Speed: 5985/1800 rpm Ratio: 3.325:1  
Service Factor: 1.51

**GENERATOR:**

Manufacturer: Brush TEWAC, brushless exciter  
Frame: BSGMHW 118.220/4, S/N 60786a-1G  
Rated Power: 15000 KVA  
Voltage: 13,800 v/3 phase, 60 hz  
PF: 0.9  
Speed: 1800 rpm

**CONDENSER:**

Manufacturer: Graham

**SCOPE OF SUPPLY**

Steam Turbine, gear reducer skid complete  
Generator with terminal box  
Inlet stop valve  
Lube oil system  
Gland steam condenser  
Condenser  
Air ejector  
Condensate extraction pumps with motor (2)  
Woodward 505 and protech TPS, Bently 3500 vibration monitor, DECS200 voltage regulator  
Cooling water pumps with motor (3 )

**HISTORY:**

Year manufactured: 1989, shutdown March 2019

The turbine generator condenser is complete with all associated equipment

