

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

