

33000 KW SIEMENS CONDENSING STEAM TURBINE GENERATOR SET

STEAM TURBINE:

Manufacturer: Siemens Axial Exhaust
Type: SST-300
Rating: 33040 kw
Inlet steam: 1189 psia/845 °F
Maximum inlet steam flow: 330,000 lbs/hr
Extraction steam:
 Uncontrolled 350 psia 0 - 9,702 lbs/hr
 Controlled 200 psia 0 - 241,480 lbs/hr
 Uncontrolled 80 psia 0 - 47,870 lbs/hr
Exhaust steam: 3" HgA
Maximum Exhaust steam flow: 257,230 lbs/hr
Steam rate at zero all extractions
 33,040 kw 10.11 lbs/kwh
 25,000 kw 9.6 lbs/kwh
 15,000 kw 10.7 lbs/kwh
Number of stages: Hp: 7 LP: 10
Inlet steam size: 8" class1500
Speed: 6000 rpm
Rotation: CW from governor end

GEAR REDUCER:

Manufacturer: Renk
Model number: TLE 710
Speed: 6010/1800 rpm

GENERATOR:

Manufacturer: Siemens TEWAC
Model: SGEN 6 100A-4P
Rated Power: 38,970 KVA
Voltage: 13,800 v/3 phase, 60 hz
PF: 0.85
Speed: 1800 rpm

CONDENSER:

Manufacturer: Holtec
Surface area: 20,500 Sq ft
Cooling water inlet/outlet: 85 /109 °F
Cooling water flow: 18,652 gpm
Tube material: SS 316

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 pump with motor
Turbine control panel
Generator breaker and control panel

HISTORY:

Year manufactured: 2007
Last run: 2018

The turbine generator condenser is complete with all associated equipment



