



Stock # TG55

8300 kw Siemens Back pressure steam turbine generator set consists of following

STEAM TURBINE:

Manufacturer: Siemens (Dresser-Rand)
Frame 1QS2BQ
Serial number: D-3577 (U-25965)
Rating: 8351 KW
Rating at zero extra. 5,750 kw
Inlet steam: 448 psig/660 °F Maximum 458 psig/670 °F , right side
Controlled Extraction 130 psig 0-80,000 lbs/hr, down
Exhaust steam 60 PSIG Maximum 70 psig , down
Max. inlet flow 275,000 lbs/hr, Zero Extraction 150,000 lbs/hr
Steam rate at zero extraction: 26.09 lbs/kwh
Speed: 6038 rpm
Number of stages 4 rateau
Rotation: CW from Governor end
Steam inlet: 12" #600 RF, Extraction steam 14" #300 RF, Exhaust steam 16" # 150 RF

GEAR REDUCER

Manufacturer Lufkin
Model no NFV24000
Inlet speed: 6038 rpm
Outlet speed 1800 rpm
Ratio: 3.354:1
Serial No. 11148

GENERATOR:

Manufacturer: Electrical Machinery
Serial number: 194342411
Type TEWAC , Brushless
Rated Power: 10,439 kva
KW: 8351 KW
Voltage: 13,800 v,3 phase, 60 hz
PF 0.8
Speed: 1800 rpm
Exciter 30 volts, 8 amps
Rotation: CCW from drive end

SCOPE OF SUPPLY

Steam Turbine, Gear reducer mounted on skid
Inlet T & T valve 12" # 600
Exhaust expansion joint
Generator with brushless exciter
Generator terminal box with surge arrester and capacitor
Air to water cooler

NSV Energy LLC
35 Hickory Springs Industrial Drive
Canton GA 30115



Cooling water inlet and outlet isolation valve
Extraction steam NRV
Safety valves extraction line and exhaust steam line
Woodward 505E governor, Woodward EGCP-3 digital control
Lube oil tank, lube oil cooler, lube oil pump
Lube oil purifier
Gland steam system
Manual and drawings

Generator breaker with cts and pts can be supplied if needed additional cost

Approximate shipping size and weights
Steam turbine and gear reducer on skid 217" x 96" W x 131" H 71,480 lbs
Generator 209" L x 90" W x 85" H 55,000 lbs
Auxiliaries 3 flat bed trucks

History
Manufactured 1994, Shutdown: 2021

