7000 KW EXTRACTION CONDENSING STEAM TURBINE GENERATOR SET

STEAM TURBINE:
Manufacturer: Murray (Dresser-Rand)
Serial number: T-5593
Rating: 9,000 KW
Inlet steam: 850 psig/750 deg f
Extraction steam: 125 psig
Exhaust steam: 3” Hga
Rating with zero extraction: 6500 kw
Steam flow at 6500 kw: 70,000 lbs/hr
Steam rate straight condensing: 10.77 lbs/kwh
Extraction steam flow: 0 to 50,000 lb/hr
Maximum inlet steam flow: 120,000 lbs/hr
Number of stages: 9
Speed: 4711 rpm
Inlet steam flange: 6" right side
Extraction steam Flange: 8” left side
Exhaust flange: 48" top
Rotation(view from Governor end): CCW

GEAR REDUCER:
Manufacturer: Lufkin
Model number: N2400C
Serial number: 116675
Rating: 12,837 hp
Service factor: 1.56

GENERATOR:
Rating: 7778 kva
KW: 7000
Serial #:331924
Voltage: 4160 v
Rpm: 1800 rpm
PF: 0.9
Amps: 1079
Temp. rise: 80 deg c rise
Type: SAB, air cooled
Exciter: Brushless
Frame: 21320-34
Insulation: class F
Rotation: CW from drive end
Center line height: 35"

HISTORY:
Turbine:
Year built: 2001
Last major overhaul: 2006

sales@nsvenergy.com   908-421-4139

Last year run: 2008,
Turbine rebuilt and stored inside warehouse
Generator rewound 2000 and rebuilt 2014 stored inside warehouse ready to ship

SCOPE OF SUPPLY
9000 KW Dresser Rand extraction condensing steam turbine, serial number: T-5593, Lufkin gear reducer
Mounted on common skid with 6" steam inlet stop valve, 8" extraction NRV, with all internal piping.

7000 KW Ideal generator, 4160 v, with exciter, PMG, air cooled. Generator terminal box with ct's, surge arresters and capacitor

Lube oil system with lube oil tank, lube oil cooler, pumps, lube oil conditioner, lube oil piping.

Lube oil conditioner with control panel

Gland steam condenser with steam trap.

Extraction steam safety valve.

Drawings, manuals.

Following equipment are not included if needed can be supplied:
Condenser and auxiliaries
Generator breaker
Turbine control panel
Generator control panel