



## **ONE (1) UNUSED SURPLUS 4500KW ELLIOTT CONDENSING STEAM TURBINE GENERATOR SET**

### **TURBINE:**

One (1) New Elliott 4500kw Multi Stage Condensing Steam Turbine Type 2DYR5, 5254 RPM  
Inlet Steam: 575 PSIG 745 Deg F, Exhaust 3.5”Hga, CCW Rotation Looking From Governor  
End, 6” Class 600 Inlet Size, 36” Class 150” Up Exhaust. Steam Rate 11.44 Lbs./Hr., Steam  
Flow 51,500 Lbs./Hr Turbine Maximum Capability 4783KW

### **GEAR REDUCER:**

Elliott Single Reduction Gear Reducer Input RPM= 5254, Output RPM=1800

### **GENERATOR:**

TD Power Systems 5295 KVA, 4500 kW, 0.85 PF, 4160V, TEWAC, Brushless Exciter

### **CONDENSER:**

Graham surface condenser, 7571 sq. ft, 63,000 lbs./hr steam condensed.

### **GENERATOR CIRCUIT BREAKER**

Indoor Free standing NEMA-1 cabinet, built ANSI, IEEE standards. Cable entry and exit at top.  
Consists of following:

#### Generator Circuit Breaker

- GE type VB1
- 1200 amps, 4160 v, 3 phase, 250MVA , 125V dc trip and close
- 3 x 1200:5 CTS bus side
- 2 x 4200:120V fused pts on bus side
- 2 x 4200:120V fused pts on generator side
- Lockout relay
- Breaker control switch - red/green light
- Two section each 36” wide cabinets

### **SCOPE OF SUPPLY:**

- Steam Turbine, Gear Reducer, Trip and Throttle Valve, Mounted On Common Skid
- Condenser, Air Ejector
- Local Turbine Gauge Board.
- Lube Oil System with Lube Oil Tank, AC and DC Lube Oil Pump

#### **CTG POWER SYSTEMS INTNL., LLC**

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- Lube Oil Filter, Lube Oil Cooler
- Valtek Governor Actuator
- Steam Turbine Blankets
- Lube Oil Piping Supply And Return From Lube Oil Tank To Turbine And Generator Gland Steam Condenser and Piping
- Drain Piping Near Turbine Generator Terminal Box
- Generator Surge Protection with Surge Arrester and Capacitor Engineering Drawings and Manuals,
- Foundation Design Data Neutral Ground Resister Coupling With Guard
- Turbine Generator Control Panel
- Generator Circuit Breaker
- Battery Charger, Battery and Rack



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