

## **18302 kw GE CONDENSING STEAM TURBINE GENERATOR SET**

### STEAM TURBINE:

Manufacturer: General Electric  
Type: Geared drive top exhaust  
Rating: 18302 kw  
Inlet steam: 825 psi/790 °F  
Exhaust steam: 3.8" Hga  
Maximum inlet steam flow: 137,789 lbs/hr  
Output zero induction steam: 15100 kw @ 137789 lbs/hr  
Steam rate: 9.125 lbs/kwh  
Induction steam: 91 psig 0 to 43,870 lbs/hr  
Inlet steam size: 6" class1500  
Speed: 4519 rpm

### GEAR REDUCER:

Manufacturer: Lufkin  
Speed: 4519/1800 rpm

### GENERATOR

Manufacturer: General Electric  
Rating: 21,530 KVA  
Volts/phase/hz: 13800 v/3/60 hz  
PF: 0.85  
Type of cooling: air cooled (TEWAC)

### CONDENSER:

GEA Air cooled

### SCOPE OF SUPPLY

Steam Turbine complete  
Generator  
Inlet stop valve  
Lube oil system  
Gland steam condenser  
Air cooled Condenser  
Condensate extraction pump with motor  
Turbine control panel with Woodward 505  
Generator AVR and control panel

### HISTORY:

Year manufactured: 1995  
Last run: 2018  
Last Overhaul: 2010

