

**72690 kw GE SCSF DOUBLE AUTOMATIC EXTRACTION CONDENSING STEAM TURBINE GENERATOR SET**

**STEAM TURBINE:**

Manufacturer: General Electric  
Turbine number:  
Inlet steam: 950 psig/900 °F  
Exhaust steam: 1.5" Hga  
Maximum inlet steam flow: 700,000 lbs/hr  
Automatic Extraction steam:  
    Pressure                    Flow                    Flange size  
    160 psig (176-144 psig)    0 – 600,000 lbs/hr    14"  
    45 psig (55-35 psig)      0 – 500,000 lbs/hr    30"  
Straight condensing steam flow: 395,000 lbs/hr , 50,000 kw  
Steam rate at zero extraction: 7.9 lbs/kwh  
Number of stages: 16  
Speed: 3600 rpm

**GENERATOR:**

Manufacturer: General Electric, Hydrogen cooled  
Serial Number: 316X702  
Rating: 86,600 KVA  
Voltage: 13800 v/3/60 hz  
PF: 0.85  
Exciter: Static 342 v  
Speed: 3600 rpm

**CONDENSER:**

Manufacturer: Graham, two pass  
Surface area: 39,240 Sq ft  
Cooling water inlet/outlet: 65/85 °F  
Cooling water flow: 37,500 gpm  
Tubes: ¾" – 18 BWG, 70/30 Cu-Ni, 5,710 tubes

**SCOPE OF SUPPLY**

Steam Turbine generator  
Inlet stop valve  
Lube oil system  
Control oil system  
In line Oil centrifuge  
Gland steam condenser  
Hydrogen system  
Condenser  
Air ejector  
Condensate extraction pump with motor  
Generator terminal box and surge arrester and capacitor  
Neutral Ground resister  
Extraction NRVS  
Sole plates  
Generator breaker and control panel  
Turbine control panel  
Any available spare parts

Drawings, manuals, history records.

HISTORY:

Year built: 1987

Last run: June 2017



