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## LM5000 Unit Specifics and History

### Unit 1

**Manufacturer & Model** General Electric 7LM5000-GD-NDBG07  
**Power Turbine** General Electric T-5000-1-G03  
**Normal Power Turbine RPM** 3600 rpm  
**Start System** Hydraulic, variable speed  
**Vibration Monitoring** Bentley Nevada 7200 Series  
**Fire Protection** Wilson Fire protection System and CO2 Fire Suppression  
**AC Generator** Brush Electric Machines BDAX7-290SS  
**Machine Number** 61099A-1G  
**Power Factor** 0.9  
**Voltage** 13.8 kV  
**Frequency** 60 Hz, 3-phase, Wye Connection  
**Cooling** Air Cooled  
**Brushless Excitation System** Brush MAVR  
**Rating** 52530 kVA  
**Amps** 2198  
**External Turbine Lube Oil System** Shell and tube heat exchanger with customer supplied cooling water  
220 Gallon reservoir capacity  
**Generator Lube Oil System** Generator driven main pump, AC motor driven auxiliary pump, rundown tanks  
Shell and tube heat exchanger with customer supplied cooling water  
500 Gallon reservoir capacity  
Motor driven pump capacity 62 GPM at 1800 RPM

### Unit 1 History

This unit was manufactured by Stewart & Stevenson  
Manufacture date – 1991  
Installed and Commissioned – 1992  
Unit was decommissioned – 2004  
Unit was disassembled - 2008  
Run hours – +/- 65,000 Unit was operated and maintained over the years per the Manufactures recommendations

Unit Gas Turbine has been inspected and minor overhauled performed– 2010

**Unit Gas Turbine had a zero hour overhaul performed - 2011**

Unit has a new control system built in 2010

## **Unit 2**

**Manufacturer & Model** General Electric 7LM5000-GD-NDBG05

**Power Turbine** General Electric T-5000-1-PT026

**Normal Power Turbine RPM** 3600 rpm

**Start System** Hydraulic, variable speed

**Vibration Monitoring** Bentley Nevada 7200 Series

**Fire Protection** Wilson Fire protection System CO2Fire Suppression

**AC Generator** Brush Electric Machines BDAX7-290SS

**Machine Number** 61173A-2G

**Power Factor** 0.9

**Voltage** 13.8 kV

**Frequency** 60 Hz, 3-phase, Wye Connection

**Cooling** Air Cooled

**Brushless Excitation System** Brush MAVR

**Rating** 52153 kVA

**Amps** 2145

**External Turbine Lube Oil System** Shell and tube heat exchanger with customer supplied cooling water

220 Gallon reservoir capacity

**Generator Lube Oil System** Generator driven main pump, AC motor driven auxiliary pump, rundown tanks

Shell and tube heat exchanger with customer supplied cooling water

500 Gallon reservoir capacity

Motor driven pump capacity 62 GPM at 1800 RPM

## **Unit 2 History**

This unit was manufactured by Stewart & Stevenson

Manufacture date – 1990

Installed and Commissioned – 1991

Unit was decommissioned – 2004

Unit was disassembled - 2008

Run hours – +/- 60,000 Unit was operated and maintained over the years per the Manufactures recommendations

Unit Gas Turbine has been inspected and minor overhauled performed– 2010

**Unit Gas Turbine is at depot slated for a zero hour overhaul - 2011**

Unit had new control system built in 2010