

40 MW GE Frame 6B Gas Turbine Generator

Capacity: 40 MW

Year Commissioned: 1995

Current Status: Still running

Gas Turbine:

Manufacturer GE
Model Frame 6B
Type PG6541B
Power rating 38.34 / 41.4 MW
Fuel Natural gas
Turbine speed 5,100 rpm
Last overhaul 2012
Hours since last overhaul 25,108
Total starts 246
NOx reduction Steam injection
Star device Electrical motor
Torque converter
Heat rate 11,460 KJ/KWh

Gear Box:

Manufacturer Voight
Speed ratio 5,100 / 3,000 rpm

Generator:

Manufacturer GEC Alsthom
Voltage 11 KV
Frequency 50 Hz
Cooling Air cooled
Rate output 52.975 MVA
Power factor 0.8
Speed 3,000 rpm
Excitation Roating diode exciter
Protection IP55



BRIEF PLANT DESCRIPTION

GE Frame 6B is a heavy duty gas turbine. It offers high availability of 93.4% and high reliability of 98.2%. There are more than 1,200 units installed all over the world. Besides the gas turbine, gear box and generator, this complete power plant also includes critical spare parts, special tooling, and other equipment such as air intake / filtration system, inlet ducting, lateral exhaust ducting, stack, outdoor enclosures, natural gas skid, fire protection container (CO2), and electrical / electronic control cabinet with speedtronic turbine control system (Mark V), motor control center, generator breaker and protection and control System, operator control module. The plant uses steam injection for emissions control / NOx reduction. The plant is currently operating and will be shut down in 2015. All maintenance work is performed routinely.

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