

Manufacturer: Solar Turbines.

Manufacture year: 2011.

Gas turbine model: Mars 100-Version 15000SAN. SoLoNOx

Gas turbine power: 14800 HP.

Gas turbine speed RPM: NGP 11168 NPT 9500 rpm.

Fuel Type: Natural Gas Maximum Supply Pressure 500 psig (3450 kPag).

SCOPE of SUPPLY: Complete Ga Turbine including:

- ☐ Gas turbine (axial compressor, combustion chamber, and power turbine).
- ☐ Intake volute, inlet silencers
- ☐ Exhaust volute, exhaust silencers
- ☐ Lubricating oil system, oil tank, heater, main and auxiliary oil pumps (main mechanical, AC electric pre/post, DC electric backup), filter, 120V DC starter, pressure and temperature regulator, oil mist separator, ventilation flame arrester
- ☐ Starter motor
- ☐ Oil pressure regulation system
- ☐ Thermostat valve
- ☐ Duplex filter holder with its 6-way valve
- ☐ CO2 piping system, fire detection, and fire extinguishing system CO2
- ☐ Instrumentation associated with the turbine (pressure transmitters, vibration modules)
- ☐ Gas valves (primary, secondary, and PEC)
- ☐ IGV electro-actuator
- ☐ Oil supply and drainage hoses and pipes
- ☐ Enclosure with its panels and doors (enclosure)
- ☐ Local control panel with its PLC
- ☐ Cabin air intake duct with its fan, ventilation system

- ☐ Cabin air outlet ducts, ventilation system
- ☐ Filter house
- ☐ Damper with shutters for cabin insulation (cabin intake and discharge)
- ☐ Main oil tank
- ☐ Gas, flame, and heat detectors
- ☐ Thermocouples
- ☐ Skid internal pipes.
- ☐ Injectors
- ☐ Bleed valve
- ☐ Air and gas manifolds

Additional Scope of Supply:

- Natural gas-fired cogeneration power plant with an effective capacity of 30 Megawatts.
- Hours worked: (about 34.000 Total). Rotor changeout 6,000 hrs ago
- Number of generating units: 03.
- Type of fuel used: Natural gas.
- Type of compatible fuel: No.
- Permanent suspension of activity: March/2023.
- Reason for interruption: End of subsidy for the acquisition of fuel (natural gas).
- Physical/operational conditions: The plant was shut down while fully operational and is 100% intact. No maintenance interventions or contingent plans are being carried out for the proper conservation of the equipment, but it is still energized.