

Sea Star Base Generator Specifications and Operation Details

The existing generator providing emergency power for the property has been serviced by Cummins under a service agreement since it was installed and placed into operation.

Cummins performs scheduled maintenance under an ongoing service contract, taking care of oil changes, coolant replacements, belts, as well as oil and fuel filters.

They monitor and perform load tests as scheduled, including switchover gear, and overall performance.

The system is diesel driven, that is supplied by a 4000-gallon external storage tank.

The Day Tank Controller transfers fuel from the main ground-mounted 4000-gallon storage tank to the 185 Gallon onboard tank as needed via a computer that automatically sends fuel to the onboard tank, with safety devices that monitor automatic fuel transfer.

The system is monitored on the 5th floor in the Administration area.

There are two monitors located on the west wall of the open office area. One provides main storage tank details, with a series of alarms and conditions of the fuel storage level as well as leak detection.

The other control monitors the Cummins gen set has a remote monitoring control, that will send an alarm when building power has been lost from the power grid provided by the electric company "outages". Types of alarms. Genset Supplying Load, not in auto mode, High Battery Voltage, Low Battery voltage, Onboard Charger AC failure, Failure to start, Low Engine Temperature, Pre-High Engine Temperature, High Engine Temperature, Pre-Low oil pressure, Low oil pressure, RPM Overspeed, Low coolant level, Low onboard fuel tank level, Network conductivity.

Operation of Generator.

The onboard sensors monitor the power provided by the electrical provider.

If the power supply is interrupted by the provider "Grid Loss" the system will sense the loss and automatically start the generator as well as switch over the power supply instantaneously.

Once grid power is back on the generator will switch back to the grid and go through a cooldown shut-down mode.

The Fuel burn rate for the generator is 23.125 gallons of diesel per hour of operation.

The Generator is programmed to automatically start every other Wednesday, at 12:30 and operates for 45 minutes, then cycles itself off.

During full operation with a full building load, Lights, Chiller, Air Handlers, and refrigeration units, all operating, the Generator operating capacity is operating at 33%.

This system has plenty of KVA power available for building and load expansion.

Cummins and Coupled Generator Specifications.

Cummins Diesel Engine:

Model # QSK23-G7 NR2 Serial # 00326771

Horsepower 1220 hp MFG 10/25/2013

Generator Stamford:

Model # HC1634J1 Serial # X13J445710

Base Rating kVA 1300kVA

480 Volt 3-phase 1563.7 Amps per branch.

ACS Manufacturing Inc

Acoustical Enclosure, with barometric inlet and exhaust dampers on each end providing protection from the elements.

Please see attached photos.

Please call or email if any additional information is needed.

Roger Bellinger.

Chief Facilities Engineer / Facilities Director.

817-800-1979

rbellingar@ssl









