

## **Section 4.0 Design Basis and Interconnect Points**

### **4.1 Design Basis**

#### **Design Conditions**

Site Elevation	100 ft.
Air Temperature, High	104°F
Air Temperature, Low	60°F
Design Temperature	85°F
Relative Humidity	60%
Wind Speed	80 mph
Gas Turbine Power	75 MW net
GTG Fuel Consumption Rate	42,000 MCFD Natural Gas
GTG Liquid Fuel Consumption Rate	260 gpm
High Voltage Interconnect	230 KV
Demin Water Storage	126,000 Gallon (6) Fiberglass Tanks by Contractor
Instrument Air System	85 SCFM by Contractor
Waste Oil Storage	10,000 Gallons by Contractor
Waste Water Storage	10,000 Gallons by Contractor
Raw Water Storage	2,000,000 Gallon CS Tank by Contractor
Treated Fuel Storage	125,000 Gallon Storage Day Tank by Owner

### **4.2 Interconnect Points**

Natural Gas at min. 450 psig	Owner to provide interconnection point outside of the Plant Battery Limits.
Treated Liquid Fuel	Owner to provide pipeline and measurement at Plant Battery limits
Plant Waste Water	Plant Battery Limits.
Plant Waste Oil	Plant Waste Oil Tank.
230 KV	Connection to Utility via dead end structure inside Substation.
Telephone	Plant Battery Limits.
Raw Water Supply	Plant Battery Limits.
Sanitary Sewer	Existing Plant Septic System at boundary
Raw/Firewater Supply	Plant Battery Limits by Owner