

Section 4.0 Design Basis and Interconnection Points

4.1 Design Conditions

Design Conditions

Site Elevation (Meters above Mean Sea Level)	165 (547 ft.)
Multi-year median temperature:	27.5°C (81.5°F)
Maximum dry bulb temperature:	35°C (95°F)
Maximum wet bulb temperature:	28.3°C (82.94°F)
Multi-year median relative humidity:	85%
Median annual precipitation:	813mm (32 in)
(Majority during the months of October and November)	
Predominant wind direction:	Northwest
Maximum average multiannual wind velocity:	80.3km/h (48 mph)
Seismic Zone	4
Fuel Gas Supply Pressure	250 psig minimum
Total Plant Fuel Consumption Rate (3) FT8 SwiftPac	42.66 mmscfd *
Natural Gas Fuel Consumption Rate(3) FT* SwiftPac	201 gpm
High Voltage Interconnect @ GSU Bushings	230KV Substation (By Owner)
Instrument Air System	185 scfm by Contractor
Demin Water required	171 gpm
Demin Water Storage	1,000 m ³ (260,000 gal)
Raw Water Storage (Includes Fire water)	2,400 m ³ (650,000 gal)
Raw Diesel Fuel Storage	5,000 m ³ (1,300,000 gal)
Clean Diesel Fuel Storage	3,000 m ³ (500,000 gal)

* assumes 1000 Btu/SCF natural gas quality

4.2 Interconnect Points

Interconnect Points

Fuel Gas	250 psig at PDVSA Metering & Regulating Station within Site
Liquid Fuel	Diesel Fuel Offloading Station (By Contractor)
Plant Waste Water	At waste water tank discharge pump
Plant Waste Oil	At waste oil tank discharge pump
230 KV	At GSU High Side Bushings
Raw Water Supply	At Plant battery limits from Water Utility (Not purified for drinking)

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