

**GUARENAS****Power Plant**

Site Elevation

Design Temperature

Relative Humidity

**Simple Cycle**

ID GTPRO

**LM2500+ LM6000**

1407 Feet

86 F

51%

4/22/2010

	330		283		Average	
	(2) LM6000 PC SPT		(2) LM2500+		Total 4 Units	
	Fuel Gas	Liquid Fuel	Fuel Gas	Liquid Fuel	Gas Fuel	Liquid Fuel
Gross Power KW	83826	79929	50029	50131	133855	130060
Net Power KW	81116	78446	48384	49051	129500	127497
Aux & Losses KW	2709.4	1482.5	1644.4	1080.3	4353.8	2562.8
LHV Gross Heat Rate (BTU/kWh)	8698	1482.5	9412	9506	9055	5494.25
LHV Net Heat Rate (BTU/kWh)	8988	8901	9732	9715	9360	9308
LHV Gross Electric Eff %	39.23	9070	36.25	35.9	37.74	4552.95
LHV Net Electric Eff %	37.96	38.33	35.06	35.12	36.51	36.725
LHV Fuel (kBTU/h)	729104	711470	470871	476537	599988	594004
HHV Fuel (kBTU/h)	807196	757812	521305	507576	664251	632694
Fuel Gas (KPPH)	36.64	0	23.46	0	60.1	0
Fuel Gas (MMSCFD)	18.81	0.00	12.04	0.00	30.86	0.00
Liquid Fuel (KPPH)	0	38.88	0	26.04	0	64.92
Liquid Fuel (GPM)	0	89.89	0.00	60.20	0.00	150.09
Water for Nox (KPPH)	32	34	27	28	60	61
Water for Nox (GPM)	65	68	55	55	120	123
SPT Water (KPPH)	8	8	0	0	8	8
SPT Water (GPM)	17	17	0	0	17	17
Centrifuges (KPPH)						5.00
Centrifuges (GPM)						10.00

**TOTAL**

Fuel Gas	31 (MMSCFD)		
Liquid Fuel	150 GPM		
Demin Water for Fuel Gas	137 GPM		
Demin Water For Liquid Fuel	140 GPM		
Filter/City Water to the Centrifuges	10 GPM	14,400 GPD	
Demin Water Centrifuges & LF	140 GPM	200,984 GPD	
RAW Water For Fuel Gas	195 GPM	281,036 GPD	(3) Days
RAW Water For Liquid Fuel	214 GPM	307,692 GPD	923,075