Appendix A - EL SEGUNDO POWER, LLC
Siemens SGT6-5000F CTG Hourly Emissions - Normal Operations

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Data:
Standard Conditions: 29.92 inches Hg and 68 degrees Fahrenheit
Emission Factor (lb/MMBTU) = (ppmvd)*(MW)*(1/SMV)*(20.9/5.9)*(Fd)*(1/1E6)
where,
controlled ppmvd = controlled concentration corrected to 15% O_2
MW = molecular weight (lb/lb-mol)
SMV = specific molar volume at 68 degrees Fahrenheit = 385.3 dscf/lb-mol
Fd = dry oxygen F-factor for natural gas = 8,710 dscf/MMBTU at 68 degrees Fahrenheit
Emission Rate Uncontrolled = Emission Factor Uncontrolled (lb/MMBTU) * Heat Input (MMBTU/hr)
Emission Rate Controlled = Emission Factor Controlled (lb/MMBTU) * Heat Input (MMBTU/hr)
Uncontrolled Emissions from the CTG:
NOx = 25 ppm @ 15% O_2, CO = 100 ppm @ 15% O_2, VOC = 4 ppm, PM10 = 0.0053 lbs/MMBTU; SOx = 0.25 grains/100 scf

CO Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Pollutant Conc. Uncontrolled (ppmvd)	Pollutant Conc. Controlled (ppmvd)	Molecular Weight (lbs/lb-mole)	Specific Molar Volume (dscf/lb-mole)	Dry Fuel Factor (dscf/MMBTU)	Emission Factor Uncontrolled (lb/MMBTU)	Emission Factor Controlled (lb/MMBTU)	Emission Rate Uncontrolled (lb/hr)	Emission Rate Controlled (lb/hr)
1	1,881.0	100	2.00	28	385.3	8,710	0.2242	0.0045	421.76	8.44
2	1,951.0	100	2.00	28	385.3	8,710	0.2242	0.0045	437.45	8.75
3	2,096.0	100	2.00	28	385.3	8,710	0.2242	0.0045	469.96	9.40
4	1,155.0	100	2.00	28	385.3	8,710	0.2242	0.0045	258.97	5.18
Average										**7.94**

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NOx Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Pollutant Conc. Uncontrolled (ppmvd)	Pollutant Conc. Controlled (ppmvd)	Molecular Weight (lb/lb-mol)	Specific Molar Volume (dscf/lb-mole)	Dry Fuel Factor (dscf/MMBTU)	Emission Factor Uncontrolled (lb/MMBTU)	Emission Factor Controlled (lb/MMBTU)	Emission Rate Uncontrolled (lb/hr)	Emission Rate Controlled (lb/hr)
1	1,881.0	9	2.0	46	385.3	8,710	0.0332	0.0074	62.36	13.86
2	1,951.0	9	2.0	46	385.3	8,710	0.0332	0.0074	64.68	14.37
3	2,096.0	9	2.0	46	385.3	8,710	0.0332	0.0074	69.49	15.44
4	1,155.0	9	2.0	46	385.3	8,710	0.0332	0.0074	38.29	8.51
Average										**13.05**

VOC Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Pollutant Conc. Uncontrolled (ppmvd)	Pollutant Conc. Controlled (ppmvd)	Molecular Weight (lb/lb-mol)	Specific Molar Volume (dscf/lb-mol)	Dry Fuel Factor (dscf/MMBTU)	Emission Factor Uncontrolled (lb/MMBTU)	Emission Factor Controlled (lb/MMBTU)	Emission Rate Uncontrolled (lb/hr)	Emission Rate Controlled (lb/hr)
1	1,881.0	4	2.0	16	385.3	8,710	0.0051	0.0026	9.64	4.82
2	1,951.0	4	2.0	16	385.3	8,710	0.0051	0.0026	10.00	5.00
3	2,096.0	4	2.0	16	385.3	8,710	0.0051	0.0026	10.74	5.37
4	1,155.0	4	2.0	16	385.3	8,710	0.0051	0.0026	5.92	2.96
Average										**4.54**

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PM10 Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Emission Factor (lb/MMBTU)	Emission Rate Uncontrolled (lb/hr)	Emission Rate Controlled (lb/hr)
1	1,881.0	0.0045	8.52	8.52
2	1,951.0	0.0045	8.84	8.84
3	2,096.0	0.0045	9.49	9.49
4	1,155.0	0.0045	5.23	5.23
Average			**8.02**	**8.02**

SOx Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Emission Factor[1] (lb/MMBTU)	Emission Rate Uncontrolled (lb/hr)	Emission Rate Controlled (lb/hr)
1	1,881.0	0.00070	1.317	1.317
2	1,951.0	0.00070	1.366	1.366
3	2,096.0	0.00070	1.467	1.467
4	1,155.0	0.00070	0.809	0.809
Average			**1.240**	**1.240**

[1] Based on a maximum sulfur content of 0.25 grains/100 scf fuel; 1,050 BTU/scf natural gas; and 7,000 grains/lb, and 1 mole S for 2 moles SO_2

SOx = (0.25 gr/100scf)(1 scf/1,020 BTU)(lb/7,000 gr)(2 mol SO_2/1 mol S) = 0.00070 lb/MMBTU

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NH3 Emissions

Operating Condition Number	Heat Input (MMBTU/hr)	Pollutant Conc. Controlled (ppmvd)	Molecular Weight (lb/lb-mol)	Specific Molar Volume (dscf/lb-mol)	Dry Fuel Factor (dscf/MMBTU)	Emission Factor (lb/MMBTU)	Emission Rate (lb/hr)
1	1,881.0	5	17	385.3	8,710	0.0068	12.80
2	1,951.0	5	17	385.3	8,710	0.0068	13.28
3	2,096.0	5	17	385.3	8,710	0.0068	14.27
4	1,155.0	5	17	385.3	8,710	0.0068	7.86
Average							**12.05**