

AIR POLLUTION EMISSION SOURCES

FACILITY LAKE COGEN,		DISTRICT Central	COUNTY
ADDRESS		CONTACT	
AIRS	PERMIT	EXPIRATION DATE	
SOURCE DESCRIPTION			
INSPECTION DATE 10/20/05	AUDIT TYPE	COMPLIANCE STATUS	
INSPECTION COMMENTS/RECOMMENDATIONS: <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>#1 42.6 nmw</p> <p>#2 42.3 MW</p> </div> <div style="width: 45%;"> <p>1.199 w/F</p> <p>1.105 w/F</p> </div> </div>			
INSPECTOR(S) NAME(S)			
SIGNATURE		DATE	

Year	Month	GT1 Gas Fuel (KSCF)	GT2 Gas Fuel (KSCF)	GT1 Gas Fuel (MMBtu)	GT2 Gas Fuel (MMBtu)	D Burner 1 Gas Fuel (KSCF)	D Burner 2 Gas Fuel (KSCF)	D Burner 1 Gas Fuel (MMBtu)	D Burner 2 Gas Fuel (MMBtu)	Liquid Fuel 1GT (gal)	Liquid Fuel 2GT (gal)	#1 Liquid Fuel (gal/hr)	#2 Liquid Fuel (gal/hr)	#1 Liquid Fuel (hr)	#2 Liquid Fuel (hr)	Sulfur Content	GT1 Gas Fuel (MMBtu) - 12 Month	GT2 Gas Fuel (MMBtu)-12 Month	D Burner 1 Gas Fuel (MMBtu)-12 Month	D Burner 2 Gas Fuel (MMBtu)-12 Month	Liquid Fuel 1GT-12 Month	Liquid Fuel 2GT-12 Month
2004	February	141,213.26	142,085.01	148,838.80	149,757.60	6.38	6.04	6.72	6.37	0	0						1,838,292.38	1,873,151.42	13,749.45	19,831.31	0.00	0.00
2004	March	150,663.77	152,087.71	158,799.61	160,300.45	7.01	4391.27	7.39	4,628.40	0	0						1,821,575.46	1,835,803.02	13,749.81	23,687.10	0.00	0.00
2004	April	145,043.70	146,867.94	152,876.06	154,798.81	8.55	4900.54	9.01	5,165.17	0	0						1,820,534.97	1,838,033.33	13,749.40	28,844.29	0.00	0.00
2004	May	148,130.37	151,171.65	150,129.41	159,334.92	246.74	5512.36	260.06	5,810.03	0	0						1,820,099.25	1,839,160.35	14,002.69	34,212.97	0.00	0.00
2004	June	145,485.37	145,670.58	153,341.58	153,538.79	1,353.15	5395.49	1,426.22	5,686.85	0	0						1,821,752.92	1,841,728.87	15,225.15	38,346.41	0.00	0.00
2004	July	146,497.96	126,308.07	154,408.85	133,128.71	5,476.85	6,153.25	5,772.60	6,485.52	0	0						1,817,048.26	1,818,788.93	16,841.47	43,380.50	0.00	0.00
2004	August	150,411.12	145,321.84	158,533.32	153,169.22	8225.30	8825.05	8,689.46	9,301.60	0	0						1,827,990.26	1,816,534.63	25,440.94	49,082.87	0.00	0.00
2004	September	143,141.94	142,404.48	150,871.60	150,094.32	2,239.06	4750.86	2,359.96	5,007.41	0	0						1,826,341.89	1,816,853.66	20,716.63	47,376.18	0.00	0.00
2004	October	146,743.81	151,310.49	154,667.96	159,481.26	239.18	2355.71	252.10	2,482.92	0	0						1,827,295.24	1,820,886.29	18,994.76	47,818.11	0.00	0.00
2004	November	145,545.12	139,044.46	153,404.56	146,552.86	0.34	2.26	0.35	2.38	0	0						1,830,365.24	1,818,399.87	16,766.51	46,804.51	0.00	0.00
2004	December	148,916.52	145,048.27	156,958.01	152,880.88	481.10	79.39	486.00	83.68	0	0						1,855,626.99	1,825,375.14	19,252.51	44,663.69	0.00	0.00
2005	January	139,243.74	152,569.88	146,762.90	160,808.65	530.63	4,131.38	559.28	4,354.47	0	0						1,845,592.68	1,833,844.46	19,809.17	49,014.79	0.00	0.00
2005	February	134,687.08	138,131.48	141,990.18	145,590.58	400.32	677.50	421.94	714.09	0	0						1,838,714.07	1,829,677.44	20,224.39	49,722.51	0.00	0.00
2005	March	148,245.33	141,816.67	156,250.56	149,474.77	2,807.92	2167.48	2,959.55	2,284.53	0	0						1,836,165.03	1,818,851.77	23,176.54	47,376.64	0.00	0.00
2005	April	136,334.44	148,940.28	143,696.50	156,983.06	2,781.81	6353.61	2,932.03	6,696.70	0	0						1,826,985.47	1,821,036.01	26,099.56	46,910.18	0.00	0.00
2005	May	151,245.10	154,251.78	159,412.34	162,581.38	2,390.59	370.59	2,519.68	390.60	0	0						1,830,268.40	1,824,282.47	28,359.18	43,490.75	0.00	0.00
2005	June	145,534.33	147,637.85	153,393.18	155,504.89	4,134.18	0.00	4,357.43	0.00	0	0						1,830,320.00	1,826,250.57	31,290.38	37,803.91	0.00	0.00
2005	July	149229.38	136446.17	157,267.77	143,814.26	6,647.86	94.97	7,006.85	100.10	0	0						1,833,198.92	1,836,936.13	32,524.62	31,418.48	0.00	0.00
2005	August	153,958.16	144,709.27	162,271.90	152,523.57	6,164.66	157.73	6,497.55	166.25	0	0						1,836,937.50	1,836,290.48	30,352.71	22,263.13	0.00	0.00
2005	September	176,270.05	178,427.65	185,788.63	188,062.74	3,274.44	0.00	3,451.26	0.00	0	0						1,871,854.53	1,874,258.90	31,444.01	17,275.72	0.00	0.00

LAKE COGENERATION

UMATILLA, FLORIDA

Data collected on 10-01-2005

Emissions Unit#2

TIME	#2 CGT MWATTS 2X12381	#2 CGT GAS FLOW 2F13227	#2 HRSG DUCT BURNER	#2 CGT mmBTU/H 2FT6243	#2 CGT NOX WATER	#2 CGT WATER / FUEL	#2 CGT NOX CALCUL- ATED	#2 DB NOX CALCUL- ATED
00:00	17.82	2777.2	0.00	56	554	0.200	7.97	0.00
01:00	0.00	2058.5	0.00	42	0	0.000	6.39	0.00
02:00	0.00	2056.2	0.00	42	0	0.000	6.39	0.00
03:00	0.00	2050.9	0.00	42	0	0.000	6.37	0.00
04:00	0.00	2047.2	0.00	42	0	0.000	6.36	0.00
05:00	0.00	2047.0	0.00	42	0	0.000	6.36	0.00
06:00	0.00	2049.2	0.00	42	0	0.000	6.37	0.00
07:00	0.00	2051.1	0.00	42	0	0.000	6.37	0.00
08:00	0.00	2051.0	0.00	42	0	0.000	6.37	0.00
09:00	0.00	2040.6	0.00	41	0	0.000	6.34	0.00
10:00	0.00	2010.4	0.00	41	0	0.000	6.28	0.00
11:00	0.00	2151.4	0.00	44	0	0.000	6.65	0.00
12:00	18.26	10364.4	0.00	210	9632	0.929	16.99	0.00
13:00	42.44	19447.6	0.00	395	21640	1.113	39.15	0.00
14:00	42.44	19452.4	0.00	395	21656	1.113	39.16	0.00
15:00	42.42	19445.1	0.00	395	21661	1.114	39.13	0.00
16:00	42.43	19449.0	0.00	395	21719	1.117	39.10	0.00
17:00	42.43	19465.4	0.00	395	21737	1.117	39.14	0.00
18:00	42.41	19456.4	0.00	395	21682	1.114	39.15	0.00
19:00	42.40	19451.2	0.00	395	21695	1.115	39.12	0.00
20:00	42.41	19471.5	0.00	395	21693	1.114	39.20	0.00
21:00	42.41	19469.5	0.00	395	21659	1.112	39.22	0.00
22:00	42.41	19484.0	0.00	395	21949	1.126	39.06	0.00
23:00	42.41	19469.3	0.00	395	21718	1.116	39.17	0.00
DAILY AVERAGE	20.95	10409.0	0.00	211	10375	0.997	21.91	0.00
DAILY TOTAL	502.69	249816.6	0.00	5071	248994		525.78	0.00

NOx Violations 0
Ratio Violations 0

Ratio Alarms due to Start Up	
Ratio Alarms due to Shut Down	

S/U or S/D	Time Gas System Activated	Time NOX Water in	Time NOX Water Out	Time Gas System Deactivated	Time
S/U	1054	1103			9
S/D			2302	2305	3
					12

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~~J. A. [Signature]~~

LAKE COGENERATION

UMATILLA, FLORIDA

Data collected on 10-02-2005

Emissions Unit#2

TIME	#2 CGT MWATTS 2X12381	#2 CGT GAS FLOW 2F13227	#2 HRSG DUCT BURNER	#2 CGT mmBTU/H 2FT6243	#2 CGT NOX WATER	#2 CGT WATER / FUEL	#2 CGT NOX CALCUL- ATED	#2 DB NOX CALCUL- ATED
00:00	16.49	2677.8	0.00	54	502	0.188	7.73	0.00
01:00	0.00	2048.6	0.00	42	0	0.000	6.36	0.00
02:00	0.00	2060.6	0.00	42	0	0.000	6.40	0.00
03:00	0.00	2068.1	0.00	42	0	0.000	6.42	0.00
04:00	0.00	2072.2	0.00	42	0	0.000	6.43	0.00
05:00	0.00	2076.4	0.00	42	0	0.000	6.44	0.00
06:00	0.00	2080.2	0.00	42	0	0.000	6.45	0.00
07:00	0.00	2084.5	0.00	42	0	0.000	6.46	0.00
08:00	0.00	2088.8	0.00	42	0	0.000	6.48	0.00
09:00	0.00	2090.0	0.00	42	0	0.000	6.48	0.00
10:00	0.00	2071.1	0.00	42	0	0.000	6.43	0.00
11:00	0.00	2232.5	0.00	45	0	0.000	6.88	0.00
12:00	16.10	9415.4	0.00	191	8085	0.859	16.15	0.00
13:00	41.50	19702.8	0.00	400	22387	1.136	39.53	0.00
14:00	42.27	19697.2	0.00	400	22305	1.132	39.57	0.00
15:00	42.44	19453.4	0.00	395	21771	1.119	39.08	0.00
16:00	42.43	19471.9	0.00	395	21803	1.120	39.12	0.00
17:00	42.28	19514.1	0.00	396	21828	1.119	39.25	0.00
18:00	42.34	19538.8	0.00	397	21946	1.123	39.26	0.00
19:00	42.32	19415.5	0.00	394	21804	1.123	38.92	0.00
20:00	42.33	19377.4	0.00	393	21719	1.121	38.84	0.00
21:00	42.32	19385.8	0.00	393	21670	1.118	38.91	0.00
22:00	42.33	19404.0	0.00	394	21696	1.118	38.95	0.00
23:00	42.31	19410.5	0.00	394	21720	1.119	38.96	0.00
DAILY AVERAGE	20.73	10393.2	0.00	211	10385	0.999	21.90	0.00
DAILY TOTAL	497.44	249437.8	0.00	5063	249237		525.49	0.00

NOx Violations 0
Ratio Violations 0

Ratio Alarms due to Start Up	
Ratio Alarms due to Shut Down	

S/U or S/D	Time Gas System Activated	Time NOX Water in	Time NOX Water Out	Time Gas System Deactivated	Time
S/U	1054	1114			20
S/D			2302	2305	3
					23

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LAKE COGENERATION
UMATILLA, FLORIDA
Data collected on 10-01-2005

Emissions Unit#1

TIME	#1 CGT MWATTS 1X12381	#1 CGT GAS FLOW 1F13227	#1 HRSG DUCT BURNER	#1 CGT mmBTU/H 1F76243	#1 CGT NOX WATER	#1 CGT WATER / FUEL	#1 CGT NOX CALCUL- ATED	#1 DB NOX CALCUL- ATED
00:00	19.18	1650.7	0.33	33	659	0.399	6.58	0.03
01:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
02:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
03:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
04:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
05:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
06:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
07:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
08:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
09:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
10:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
11:00	0.00	507.2	0.71	10	0	0.000	2.38	0.07
12:00	19.57	9984.0	6.13	202	9430	0.945	14.98	0.57
13:00	42.43	19035.0	12.01	386	22877	1.202	34.00	1.11
14:00	42.58	19096.6	16.57	387	22850	1.197	34.45	1.53
15:00	42.60	19087.8	16.68	387	22867	1.198	34.36	1.54
16:00	42.56	19062.6	16.62	387	22831	1.198	34.28	1.54
17:00	42.56	19077.2	16.56	387	22822	1.196	34.39	1.53
18:00	42.54	19063.4	16.78	387	22850	1.199	34.24	1.55
19:00	42.60	19079.4	16.74	387	22852	1.198	34.34	1.55
20:00	42.42	18983.1	16.72	385	22839	1.203	33.76	1.55
21:00	42.44	18982.0	16.69	385	22846	1.204	33.74	1.54
22:00	42.43	18970.9	16.77	385	22715	1.197	33.96	1.55
23:00	42.43	18976.5	16.52	385	22828	1.203	33.74	1.53
DAILY AVERAGE	21.10	9231.5	7.74	187	10886	1.179	16.63	0.72
DAILY TOTAL	506.33	221556.3	185.83	4492	261267		399.18	17.18

NOx Violations 0
Ratio Violations 0

Ratio Alarms due to Start Up	
Ratio Alarms due to Shut Down	

SU or S/D	Time Gas System Activated	Time NOX Water in	Time NOX Water Out	Time Gas System Deactivated	Time
S/U	1056	1106	✓	✓	10
S/D	✓	✓	2302	2309	9
					17

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LAKE COGENERATION

UMATILLA, FLORIDA

Data collected on 10-02-2005

Emissions Unit#1

TIME	#1 CGT MWATTS 1X12381	#1 CGT GAS FLOW 1F13227	#1 HRSG DUCT BURNER	#1 CGT mmBTU/H 1FT6243	#1 CGT NOX WATER	#1 CGT WATER / FUEL	#1 CGT NOX CALCUL- ATED	#1 DB NOX CALCUL- ATED
00:00	18.14	1568.2	0.00	32	597	0.381	6.37	0.00
01:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
02:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
03:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
04:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
05:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
06:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
07:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
08:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
09:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
10:00	0.00	0.0	0.00	0	0	0.000	0.00	0.00
11:00	0.00	520.8	0.00	11	0	0.000	2.41	0.00
12:00	20.36	10172.2	0.00	206	9787	0.962	15.80	0.00
13:00	42.46	19053.1	13.83	386	22484	1.179	35.01	1.28
14:00	42.44	19011.7	16.71	385	22483	1.183	34.71	1.54
15:00	42.52	19054.7	16.71	386	22757	1.194	34.39	1.55
16:00	42.53	19052.3	16.73	386	22767	1.195	34.35	1.55
17:00	42.47	19012.0	16.68	385	22736	1.196	34.17	1.54
18:00	42.54	19068.1	16.76	387	22694	1.190	34.61	1.55
19:00	42.51	18999.6	16.73	385	22757	1.198	34.04	1.55
20:00	42.50	18961.9	16.73	384	22776	1.201	33.76	1.55
21:00	42.52	18988.6	16.64	385	22787	1.200	33.91	1.54
22:00	42.55	19034.6	16.70	386	22792	1.197	34.19	1.54
23:00	42.55	19073.3	16.63	387	22780	1.194	34.45	1.54
DAILY AVERAGE	21.09	9232.1	7.54	187	10841	1.174	16.76	0.70
DAILY TOTAL	506.09	221571.0	180.85	4493	260178		402.16	16.72

NOx Violations 0
Ratio Violations 0

Ratio Alarms due to Start Up	
Ratio Alarms due to Shut Down	

S/U or S/D	Time Gas System Activated	Time NOX Water in	Time NOX Water Out	Time Gas System Deactivated	Time
S/U	1056	1106			10
S/D			2302	2310	8
					18

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