

COGENERATION SEMIANNUAL MONITORING REPORT

Excess Emission and Monitoring System Performance Report for BAAQMD & USEPA
Permit to Operate Condition No. 14194 (S-1, 2, 3 & 4)

BAAQMD Plant # 621-Silicon Valley Power COGENERATION PLANT NO. 1

Report for the period from Mar-12 through Aug-12

I. Hours of Plant Operation:

For 6 months, From Mar-12 To Aug-12		S-1 Gas Turbine	S-2 Gas Turbine	S-3 Supplemental Burner	S-4 Supplemental Burner
Hours of Operation		4,078	4,088	0	0

II. Periods Water to Fuel Ratio Was Outside Permitted Range:

Unit	Start		Corrected		Duration (hr:min)	Ave Fuel Consumption and Turbine Load During Excursion		Remarks
	Date	Time	Date	Time		MMBTU/HR	KW	
1	04-26	4:22	04-26	4:23	0:01	46.9	2,788.00	04-26 Unit 1 RCA 06E95.
1 & 2	07-12	13:52	07-12	14:05	0:13	45.3	2,316.00	07-09 Unit 1&2 RCA 06F95

III. Continuous Monitoring System Malfunctions:

Unit	Start		Corrected		Duration (hr:min)	Ave Fuel Consumption and Turbine Load During Monitor Malfunction		Remarks
	Date	Time	Date	Time		MMBTU/HR	KW	
1					None			Continuous monitoring system was operative for the entire reporting period.
2					None			

IV. Monthly Operating Data:

(The following monthly data provides the basis of the three summary tables found on page 1)

Mar-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine				S-3 Supp Burner		S-2 Gas Turbine			S-4 Supp Burner		
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
	(I)			(I)			(I)			(I)		
1	0.83	1,274.39	24.00	83.06	0.00	0.00	0.83	1,281.85	24.00	82.70	0.00	0.00
2	0.83	1,274.21	24.00	83.06	0.00	0.00	0.83	1,281.24	24.00	82.90	0.00	0.00
3	0.83	1,252.77	24.00	82.36	0.00	0.00	0.83	1,251.85	24.00	82.91	0.00	0.00
4	0.83	1,225.71	24.00	79.52	0.00	0.00	0.83	1,220.02	24.00	80.84	0.00	0.00
5	0.83	520.88	24.00	32.24	0.00	0.00	0.83	514.12	24.00	31.46	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.60	976.49	22.00	59.55	0.00	0.00	0.60	962.89	22.00	61.00	0.00	0.00
10	0.60	1,135.53	24.00	71.72	0.00	0.00	0.60	1,126.25	24.00	72.40	0.00	0.00
11	0.60	1,058.58	24.00	69.22	0.00	0.00	0.60	1,055.49	24.00	70.00	0.00	0.00
12	0.60	1,057.49	22.00	66.42	0.00	0.00	0.60	1,035.09	22.00	66.52	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.60	310.01	20.00	57.07	0.00	0.00	0.50	891.70	20.00	57.24	0.00	0.00
16	0.50	1,150.03	24.00	72.01	0.00	0.00	0.50	1,131.85	24.00	73.01	0.00	0.00
17	0.50	1,198.07	24.00	78.01	0.00	0.00	0.50	1,173.00	24.00	76.53	0.00	0.00
18	0.83	1,182.22	24.00	73.22	0.00	0.00	0.60	1,183.17	24.00	75.72	0.00	0.00
19	0.83	1,177.65	24.00	69.45	0.00	0.00	0.60	1,180.47	24.00	65.97	0.00	0.00
20	0.83	1,128.28	24.00	71.00	0.00	0.00	0.60	1,103.67	24.00	71.90	0.00	0.00
21	0.83	1,123.55	24.00	70.82	0.00	0.00	0.60	1,107.68	24.00	71.24	0.00	0.00
22	0.83	1,147.59	24.00	72.00	0.00	0.00	0.60	1,125.68	24.00	72.96	0.00	0.00
23	0.83	847.71	15.00	53.16	0.00	0.00	0.83	833.94	18.00	53.90	0.00	0.00
24	0.83	1,210.23	24.00	77.01	0.00	0.00	0.83	1,191.04	24.00	77.52	0.00	0.00
25	0.60	1,251.87	24.00	82.90	0.00	0.00	0.60	1,232.69	24.00	81.51	0.00	0.00
26	0.60	1,220.08	24.00	77.55	0.00	0.00	0.60	1,180.83	24.00	78.50	0.00	0.00
27	0.60	1,120.83	24.00	62.31	0.00	0.00	0.60	1,082.85	24.00	69.83	0.00	0.00
28	0.60	1,118.09	24.00	68.45	0.00	0.00	0.60	1,096.89	24.00	69.94	0.00	0.00
29	0.60	1,135.45	24.00	69.93	0.00	0.00	0.60	1,098.47	24.00	70.43	0.00	0.00
30	0.60	1,123.75	24.00	70.56	0.00	0.00	0.60	1,107.25	24.00	71.14	0.00	0.00
31	0.60	1,147.46	24.00	71.29	0.00	0.00	0.60	1,126.51	24.00	71.75	0.00	0.00
TOTAL		26,925.22	590.00	1,631.66	0.00	0.00		23,517.70	499.00	1,647.01	0.00	0.00

Apr-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine				S-3 Supp Burner		S-2 Gas Turbine			S-4 Supp Burner		
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
	(I)			(I)			(I)			(I)		
1	0.60	474.38	11.00	29.25	0.00	0.00	0.60	469.09	11.00	29.43	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.60	826.06	21.00	56.01	0.00	0.00	0.60	804.58	20.00	56.73	0.00	0.00
5	0.60	1,023.60	24.00	70.29	0.00	0.00	0.60	1,158.36	24.00	76.57	0.00	0.00
6	0.60	1,162.87	24.00	74.81	0.00	0.00	0.60	1,164.95	24.00	75.45	0.00	0.00
7	0.60	1,166.56	24.00	73.83	0.00	0.00	0.60	1,148.39	24.00	74.82	0.00	0.00
8	0.60	1,158.62	24.00	72.74	0.00	0.00	0.60	1,140.11	24.00	73.25	0.00	0.00
9	0.60	1,188.30	24.00	73.65	0.00	0.00	0.60	1,168.79	24.00	76.18	0.00	0.00
10	0.60	1,173.51	24.00	73.05	0.00	0.00	0.60	1,149.85	24.00	74.18	0.00	0.00
11	0.60	1,152.90	24.00	72.45	0.00	0.00	0.60	1,131.42	24.00	72.96	0.00	0.00
12	0.60	1,154.11	24.00	70.94	0.00	0.00	0.60	1,112.17	24.00	70.64	0.00	0.00
13	0.60	1,239.00	24.00	77.07	0.00	0.00	0.50	1,188.51	25.00	77.58	0.00	0.00
14	0.30	392.08	7.00	22.58	0.00	0.00	0.60	346.00	9.00	22.62	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.50	743.01	12.00	45.28	0.00	0.00	0.60	1,142.65	24.00	73.83	0.00	0.00
17	0.50	1,139.17	24.00	71.48	0.00	0.00	0.60	1,117.50	24.00	71.95	0.00	0.00
18	0.60	1,219.87	24.00	78.02	0.00	0.00	0.60	1,187.25	24.00	79.26	0.00	0.00
19	0.50	1,033.67	24.00	67.68	0.00	0.00	0.60	1,073.24	24.00	68.17	0.00	0.00
20	0.60	1,101.16	24.00	68.03	0.00	0.00	0.60	1,083.18	24.00	68.15	0.00	0.00
21	0.60	1,083.47	24.00	67.61	0.00	0.00	0.60	1,063.51	24.00	68.13	0.00	0.00
22	0.60	1,084.43	24.00	67.44	0.00	0.00	0.60	1,086.95	24.00	67.93	0.00	0.00
23	0.60	1,138.16	24.00	70.96	0.00	0.00	0.60	1,113.63	24.00	71.09	0.00	0.00
24	0.60	1,109.57	24.00	68.33	0.00	0.00	0.60	1,081.32	24.00	68.54	0.00	0.00
25	0.60	1,091.78	24.00	67.34	0.00	0.00	0.60	1,000.32	24.00	67.85	0.00	0.00
26	0.60	1,072.48	23.00	67.99	0.00	0.00	0.60	1,150.37	24.00	73.55	0.00	0.00
27	0.60	1,149.47	24.00	72.47	0.00	0.00	0.60	1,130.30	24.00	71.73	0.00	0.00
28	0.60	1,107.40	24.00	68.83	0.00	0.00	0.60	1,091.50	24.00	69.43	0.00	0.00
29	0.60	1,080.35	24.00	67.92	0.00	0.00	0.60	1,076.97	24.00	68.42	0.00	0.00
30	0.60	1,094.33	24.00	67.83	0.00	0.00	0.50	1,075.83	24.00	68.38	0.00	0.00
31												
TOTAL		28,938.48	507.00	1,793.69	0.00	0.00		23,691.32	617.00	1,642.59	0.00	0.00

(1) Fuel consumed is based on summarized one minute boiler #WH (low rate) + 60 (high rate) * 21,034 BTU/lb (Gas) normalized to the revenue meter to correct for Therm Factor.

May-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine				S-3 Supp Burner		S-2 Gas Turbine				S-4 Supp Burner	
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1	0.60	315.97	24.00	147.03	0.00	0.00	0.60	313.09	24.00	146.40	0.00	0.00
2	0.60	0.00	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00
3	0.60	1,388.95	24.00	635.2	0.00	0.00	0.57	1,070.83	24.00	511.25	0.00	0.00
4	0.60	1,145.51	24.00	516.22	0.00	0.00	0.59	1,131.40	24.00	521.85	0.00	0.00
5	0.60	1,155.35	24.00	529.60	0.00	0.00	0.59	1,142.74	24.00	525.16	0.00	0.00
6	0.60	1,175.84	24.00	540.25	0.00	0.00	0.59	1,115.77	24.00	514.90	0.00	0.00
7	0.60	1,031.72	24.00	483.34	0.00	0.00	0.58	1,001.50	24.00	480.60	0.00	0.00
8	0.60	1,097.94	24.00	507.87	0.00	0.00	0.58	1,077.20	24.00	503.82	0.00	0.00
9	0.59	1,037.03	24.00	487.68	0.00	0.00	0.63	1,005.44	24.00	483.15	0.00	0.00
10	0.60	1,127.60	24.00	517.20	0.00	0.00	0.59	1,110.60	24.00	510.22	0.00	0.00
11	0.60	1,132.61	24.00	520.52	0.00	0.00	0.59	1,111.30	24.00	507.31	0.00	0.00
12	0.60	1,144.45	24.00	524.13	0.00	0.00	0.59	1,121.68	24.00	510.43	0.00	0.00
13	0.60	1,183.53	24.00	544.19	0.00	0.00	0.59	1,167.77	24.00	545.84	0.00	0.00
14	0.60	1,205.05	24.00	559.34	0.00	0.00	0.58	1,188.70	24.00	559.00	0.00	0.00
15	0.60	1,149.28	24.00	518.74	0.00	0.00	0.58	1,150.20	24.00	522.24	0.00	0.00
16	0.60	1,111.95	24.00	506.04	0.00	0.00	0.58	1,106.43	24.00	502.17	0.00	0.00
17	0.60	1,057.12	24.00	487.59	0.00	0.00	0.58	1,060.90	24.00	497.61	0.00	0.00
18	0.60	1,108.25	24.00	503.11	0.00	0.00	0.58	1,108.24	24.00	507.25	0.00	0.00
19	0.60	1,153.13	24.00	527.60	0.00	0.00	0.59	1,120.05	24.00	513.87	0.00	0.00
20	0.60	1,104.85	24.00	502.72	0.00	0.00	0.59	1,091.93	24.00	502.14	0.00	0.00
21	0.60	1,131.95	24.00	525.49	0.00	0.00	0.59	1,111.80	24.00	509.62	0.00	0.00
22	0.60	1,121.13	24.00	517.50	0.00	0.00	0.59	1,107.00	24.00	507.33	0.00	0.00
23	0.60	1,091.19	24.00	499.64	0.00	0.00	0.59	1,071.20	24.00	497.40	0.00	0.00
24	0.60	1,122.12	24.00	519.55	0.00	0.00	0.59	1,110.20	24.00	510.40	0.00	0.00
25	0.60	1,179.30	24.00	545.57	0.00	0.00	0.59	1,150.60	24.00	533.81	0.00	0.00
26	0.60	1,125.87	24.00	517.72	0.00	0.00	0.59	1,110.80	24.00	507.35	0.00	0.00
27	0.60	1,135.20	24.00	525.06	0.00	0.00	0.59	1,110.20	24.00	507.13	0.00	0.00
28	0.60	1,125.70	24.00	519.27	0.00	0.00	0.59	1,110.15	24.00	507.12	0.00	0.00
29	0.60	1,127.07	24.00	520.91	0.00	0.00	0.59	1,113.10	24.00	508.57	0.00	0.00
30	0.60	1,131.64	24.00	524.40	0.00	0.00	0.59	1,122.80	24.00	512.03	0.00	0.00
31	0.60	1,102.51	24.00	505.16	0.00	0.00	0.59	1,091.05	24.00	500.84	0.00	0.00
101M		32,960.53	708.00	2,353.63	0.00	0.00		32,604.47	708.00	2,070.84	0.00	0.00

Jun-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine				S-3 Supp Burner		S-2 Gas Turbine				S-4 Supp Burner	
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
1	0.60	1,031.29	24.00	471.84	0.00	0.00	0.59	1,070.25	24.00	497.70	0.00	0.00
2	0.60	1,130.64	24.00	515.91	0.00	0.00	0.59	1,107.11	24.00	502.47	0.00	0.00
3	0.60	1,150.70	24.00	525.57	0.00	0.00	0.59	1,109.49	24.00	503.29	0.00	0.00
4	0.60	1,135.23	24.00	517.06	0.00	0.00	0.59	1,121.20	24.00	508.80	0.00	0.00
5	0.60	1,133.81	24.00	516.30	0.00	0.00	0.59	1,128.62	24.00	507.90	0.00	0.00
6	0.60	1,101.04	24.00	497.52	0.00	0.00	0.59	1,095.69	24.00	495.75	0.00	0.00
7	0.60	1,114.25	24.00	506.32	0.00	0.00	0.60	1,100.01	24.00	495.60	0.00	0.00
8	0.60	1,103.50	24.00	498.78	0.00	0.00	0.60	1,088.90	24.00	490.32	0.00	0.00
9	0.60	1,087.90	24.00	489.21	0.00	0.00	0.58	1,077.49	24.00	485.65	0.00	0.00
10	0.60	1,090.36	24.00	491.70	0.00	0.00	0.59	1,081.32	24.00	489.31	0.00	0.00
11	0.60	1,063.30	24.00	479.03	0.00	0.00	0.59	1,075.20	24.00	480.02	0.00	0.00
12	0.60	1,024.18	24.00	465.27	0.00	0.00	0.58	1,020.58	24.00	469.23	0.00	0.00
13	0.60	1,077.73	24.00	495.05	0.00	0.00	0.58	1,065.26	24.00	487.51	0.00	0.00
14	0.60	1,065.48	24.00	487.63	0.00	0.00	0.58	1,052.33	24.00	481.74	0.00	0.00
15	0.60	1,047.13	24.00	478.12	0.00	0.00	0.59	1,035.15	24.00	473.90	0.00	0.00
16	0.60	1,090.58	24.00	497.40	0.00	0.00	0.59	1,074.67	24.00	488.12	0.00	0.00
17	0.60	1,094.35	24.00	497.42	0.00	0.00	0.59	1,075.14	24.00	487.61	0.00	0.00
18	0.60	1,106.45	24.00	498.81	0.00	0.00	0.59	1,080.03	24.00	489.48	0.00	0.00
19	0.60	1,106.16	24.00	498.50	0.00	0.00	0.59	1,091.77	24.00	489.12	0.00	0.00
20	0.60	1,097.27	24.00	493.72	0.00	0.00	0.60	1,084.44	24.00	485.54	0.00	0.00
21	0.60	1,115.67	24.00	503.06	0.00	0.00	0.59	1,104.14	24.00	495.70	0.00	0.00
22	0.60	1,085.38	24.00	492.44	0.00	0.00	0.60	1,070.10	24.00	483.43	0.00	0.00
23	0.60	1,098.94	24.00	497.37	0.00	0.00	0.59	1,095.22	24.00	489.01	0.00	0.00
24	0.60	1,133.28	24.00	516.50	0.00	0.00	0.60	1,120.00	24.00	502.25	0.00	0.00
25	0.60	1,141.90	24.00	520.16	0.00	0.00	0.60	1,130.10	24.00	507.28	0.00	0.00
26	0.60	1,115.67	24.00	498.41	0.00	0.00	0.59	1,105.12	24.00	495.60	0.00	0.00
27	0.60	1,125.66	24.00	498.61	0.00	0.00	0.59	1,115.70	24.00	500.04	0.00	0.00
28	0.60	1,110.20	24.00	492.23	0.00	0.00	0.58	1,100.80	24.00	493.74	0.00	0.00
29	0.60	1,120.47	24.00	496.61	0.00	0.00	0.58	1,108.15	24.00	497.83	0.00	0.00
30	0.60	1,105.11	24.00	490.70	0.00	0.00	0.58	1,104.85	24.00	497.11	0.00	0.00
31												
TOTAL		32,162.90	726.00	2,314.12	0.00	0.00		32,942.20	726.00	2,072.69	0.00	0.00

(1) Fuel consumed is based on summer spec one minute actual 4HR flow rates / 60 min/hr * 21,034 BTU/hr (Gas) normalized to the revenue meter, to correct for Turbine Factor

Jul-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine			S-3 Supp Burner			S-2 Gas Turbine			S-4 Supp Burner		
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
1	0.63	1,088.53	24.00	71,752	0.00	0.00	0.57	1,341.85	24.00	71,674	0.00	0.00
2	0.60	1,084.82	24.00	70,724	0.00	0.00	0.57	1,328.52	24.00	70,684	0.00	0.00
3	0.60	1,030.71	24.00	65,884	0.00	0.00	0.57	1,306.80	24.00	68,752	0.00	0.00
4	0.60	1,077.16	24.00	67,228	0.00	0.00	0.57	894.45	24.00	67,158	0.00	0.00
5	0.60	927.43	24.00	61,288	0.00	0.00	0.57	831.49	24.00	60,517	0.00	0.00
6	0.60	1,322.22	24.00	67,693	0.00	0.00	0.57	838.05	24.00	67,645	0.00	0.00
7	0.60	1,305.83	24.00	71,325	0.00	0.00	0.57	857.04	24.00	67,348	0.00	0.00
8	0.60	1,055.45	24.00	70,323	0.00	0.00	0.57	1,027.04	24.00	70,300	0.00	0.00
9	0.60	1,127.09	24.00	76,238	0.00	0.00	0.57	1,092.20	24.00	76,011	0.00	0.00
10	0.60	1,094.23	24.00	72,138	0.00	0.00	0.57	1,051.54	24.00	72,070	0.00	0.00
11	0.60	1,097.05	24.00	72,309	0.00	0.00	0.57	1,054.44	24.00	71,633	0.00	0.00
12	0.60	1,094.42	24.00	71,350	0.00	0.00	0.57	1,023.06	24.00	71,621	0.00	0.00
13	0.60	1,051.73	24.00	68,326	0.00	0.00	0.57	1,023.14	24.00	68,881	0.00	0.00
14	0.60	1,093.29	24.00	65,950	0.00	0.00	0.57	1,023.00	24.00	68,821	0.00	0.00
15	0.60	1,018.13	24.00	66,534	0.00	0.00	0.57	1,018.26	24.00	68,696	0.00	0.00
16	0.60	1,017.45	24.00	60,078	0.00	0.00	0.57	1,010.71	24.00	69,032	0.00	0.00
17	0.60	1,177.00	24.00	74,696	0.00	0.00	0.57	1,075.80	24.00	74,574	0.00	0.00
18	0.60	1,006.32	24.00	69,035	0.00	0.00	0.57	1,321.19	24.00	69,027	0.00	0.00
19	0.60	1,025.96	24.00	67,282	0.00	0.00	0.57	1,000.89	24.00	67,211	0.00	0.00
20	0.60	1,062.51	24.00	72,842	0.00	0.00	0.57	1,351.01	24.00	72,500	0.00	0.00
21	0.60	1,159.52	24.00	73,017	0.00	0.00	0.57	1,113.00	24.00	72,288	0.00	0.00
22	0.60	1,094.55	24.00	73,364	0.00	0.00	0.57	1,008.20	24.00	72,240	0.00	0.00
23	0.60	1,147.66	24.00	77,567	0.00	0.00	0.57	1,025.55	24.00	72,150	0.00	0.00
24	0.60	1,104.25	24.00	73,079	0.00	0.00	0.57	1,077.07	24.00	72,268	0.00	0.00
25	0.60	1,107.17	24.00	73,169	0.00	0.00	0.57	1,048.01	24.00	73,171	0.00	0.00
26	0.60	1,104.81	24.00	78,007	0.00	0.00	0.67	1,083.40	24.00	80,291	0.00	0.00
27	0.60	1,115.30	24.00	74,442	0.00	0.00	0.67	1,035.10	24.00	74,516	0.00	0.00
28	0.60	1,181.28	24.00	75,850	0.00	0.00	0.67	1,043.05	24.00	75,137	0.00	0.00
29	0.60	1,042.04	24.00	69,144	0.00	0.00	0.67	965.17	24.00	69,200	0.00	0.00
30	0.60	1,130.74	24.00	78,548	0.00	0.00	0.67	1,069.65	24.00	78,824	0.00	0.00
31	0.60	1,160.04	24.00	79,071	0.00	0.00	0.67	1,078.00	24.00	79,000	0.00	0.00
TOTAL		33,463.04	748.00	2,280.98	0.00	0.00		31,268.06	748.00	2,225.97	0.00	0.00

Aug-12	UNIT 1						UNIT 2					
	S-1 Gas Turbine			S-3 Supp Burner			S-2 Gas Turbine			S-4 Supp Burner		
	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs	Avg 24Hr H2O/Fuel Ratio	Fuel Used MMBTU	Hrs	MWH	Fuel Used MMBTU	Hrs
1	0.60	1,038.28	24.00	69,165	0.00	0.00	0.69	1,029.77	24.00	68,878	0.00	0.00
2	0.60	1,036.64	24.00	68,120	0.00	0.00	0.69	1,025.58	24.00	68,379	0.00	0.00
3	0.60	1,012.00	24.00	67,220	0.00	0.00	0.69	1,001.43	24.00	67,750	0.00	0.00
4	0.60	1,017.84	24.00	67,641	0.00	0.00	0.69	1,005.66	24.00	68,201	0.00	0.00
5	0.60	1,065.68	24.00	71,510	0.00	0.00	0.69	1,058.51	24.00	72,459	0.00	0.00
6	0.60	1,039.04	24.00	68,830	0.00	0.00	0.69	1,022.26	24.00	69,487	0.00	0.00
7	0.60	1,025.67	24.00	68,457	0.00	0.00	0.69	1,018.04	24.00	69,243	0.00	0.00
8	0.60	1,029.41	24.00	70,420	0.00	0.00	0.69	1,044.33	24.00	71,154	0.00	0.00
9	0.60	1,067.88	24.00	71,411	0.00	0.00	0.69	1,051.84	24.00	71,067	0.00	0.00
10	0.60	1,025.30	24.00	68,896	0.00	0.00	0.69	1,028.67	24.00	69,079	0.00	0.00
11	0.60	1,019.33	24.00	67,633	0.00	0.00	0.69	1,006.60	24.00	68,205	0.00	0.00
12	0.60	1,019.14	24.00	67,210	0.00	0.00	0.69	1,007.38	24.00	68,017	0.00	0.00
13	0.60	1,081.19	24.00	70,135	0.00	0.00	0.69	1,042.31	24.00	70,883	0.00	0.00
14	0.60	1,000.21	24.00	67,623	0.00	0.00	0.69	1,012.17	24.00	68,064	0.00	0.00
15	0.60	1,041.00	24.00	69,298	0.00	0.00	0.69	1,031.17	24.00	69,384	0.00	0.00
16	0.60	1,071.23	24.00	71,081	0.00	0.00	0.69	1,053.45	24.00	72,863	0.00	0.00
17	0.60	1,054.08	24.00	70,643	0.00	0.00	0.69	1,044.63	24.00	71,317	0.00	0.00
18	0.60	832.79	7.00	20,268	0.00	0.00	0.69	299.12	7.00	20,379	0.00	0.00
19	0.60	831.18	3.00	1,900	0.00	0.00	0.69	86.89	3.00	4,902	0.00	0.00
20	0.60	1,037.40	24.00	69,350	0.00	0.00	0.69	1,021.68	24.00	69,163	0.00	0.00
21	0.60	1,029.35	24.00	67,396	0.00	0.00	0.69	1,007.12	24.00	67,699	0.00	0.00
22	0.60	1,019.87	24.00	67,791	0.00	0.00	0.69	1,014.60	24.00	68,534	0.00	0.00
23	0.60	1,037.64	24.00	68,966	0.00	0.00	0.69	1,031.10	24.00	69,834	0.00	0.00
24	0.60	1,038.59	24.00	69,034	0.00	0.00	0.69	1,033.00	24.00	70,021	0.00	0.00
25	0.60	1,117.17	24.00	67,222	0.00	0.00	0.69	1,007.04	24.00	67,110	0.00	0.00
26	0.60	1,072.92	24.00	68,537	0.00	0.00	0.69	1,004.39	24.00	67,012	0.00	0.00
27	0.60	1,025.75	24.00	67,647	0.00	0.00	0.69	1,016.07	24.00	68,295	0.00	0.00
28	0.60	1,035.13	24.00	68,088	0.00	0.00	0.69	1,015.32	24.00	68,172	0.00	0.00
29	0.60	1,030.90	24.00	68,252	0.00	0.00	0.69	1,021.58	24.00	68,920	0.00	0.00
30	0.60	1,024.33	24.00	68,193	0.00	0.00	0.69	1,017.67	24.00	68,927	0.00	0.00
31	0.60	1,016.36	24.00	67,643	0.00	0.00	0.69	1,010.44	24.00	68,330	0.00	0.00
TOTAL		30,329.72	706.00	2,017.50	0.00	0.00		30,073.28	706.00	2,007.25	0.00	0.00

(1) Fuel oil claimed is based on summarized one minute actual flow from meter / 60 min / 1.21 Btu/lb (Gas) normalized to the revenue meter to correct for Therm Factor.

Title V Semi- Annual Monitoring Verification Report

Applicable Limits and Compliance Monitoring

This report summarizes the applicable source – specific emission limits for the Cogeneration Plant, facility #A0621. The following table shows the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency indicates whether periodic (P) or continuous (C) monitoring is required. Also, for periodic monitoring, the frequency of the monitoring is shown: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) is required if the current applicable rule or regulation does not require monitoring where our facility's operation will not deviate from the applicable emission limit based upon the nature of its operation. The last two columns indicate our facility's compliance from **March 1, 2012** through **August 31, 2012**.

(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements
S1, S2 – Gas Turbines w/Water Injection

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Yes/No
PM	BAAQMD Regulation 6-301	Y		Ringelmann 1.0		N		Yes (1)
	BAAQMD Regulation 6-301	Y		0.15 gr/dscf @ 6% O ₂		N		Yes (1)
NOx	BAAQMD 9-8-301.1	Y		42 ppmv @15% O ₂	Condition #14194, Part 9	P/A	Source Test	No
	NSPS Subpart GG 60.332 (a)(2)	Y		141 ppmv @15% O ₂	NSPS Subpart GG 60.334(a)	C	Water-to fuel ratio	No
	Condition #14194, part 4	Y		42 ppmv @15% O ₂ (dry), each turbine (except during startup and shutdown)	Condition #14194, Part 9	P/A	Source Test	Yes (1)

**(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements (continued)
S1, S2-Gas Turbine w/Water Injection**

Type of limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Yes/No
NOX	Condition #14194, part 5	Y		42 ppmv @ 15% O ₂ (dry), each turbine supplemental burner combination	Condition #14194, part 9	P/A	Source Test	Yes
S02	BAAQMD 9-1-301	Y		Ground level concentrations: 0.5ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours		N		Yes (1)
	BAAQMD 9-1-302	Y		300 ppm (dry) general emission limitation		N		Yes (1)
	40 CFR 60 Subpart GG 60.333 (b)	Y		0.8% (wt) fuel sulfur content	Monitoring requirement subsumed by BAAQMD condition #14194, part 1. See Permit Shield	N		Yes (1)
Fuel Usage	BAAQMD Condition #14194 part 2	Y		55.1 MMBTU/hr heat input (each turbine)	BAAQMD Condition #14194 part 7	C	Continuous Fuel Usage Monitors	Yes
Water-to-Fuel Ratio	BAAQMD Condition #14194 part 6	Y		Water-to-Fuel Ratio: 57% to 62% (wt)	BAAQMD Condition #14194 part 7	C	Continuous Water-to-Fuel Ratio	No

**(Adapted from Table VII-B of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements (continued)
S3, S4-Duct Burner**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Yes/No
PM	BAAQMD Regulation 6-301	Y		Ringelmann 1.0		N		Yes (1)
	BAAQMD Regulation 6-310.3	Y		0.15 gr/dscf @ 6% O ₂		N		Yes (1)
NO _x	Condition #14194, part 5	Y		42 ppmv @ 15% O ₂ (dry), each turbine/supplemental burner combination	Condition #14194, part 9	P/A	Source Test	Yes
S02	BAAQMD Regulation 9-1-301	Y		Ground Level Concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours		N		Yes (1)
	BAAQMD Regulation 9-1-302	Y		300 ppm (dry) general emission limitation		N		Yes (1)
Fuel Usage	BAAQMD Condition #14194 part 3	Y		13.5 MMBTU/hr heat input (each duct burner)	BAAQMD condition #14194 part 7	C	Continuous Fuel Usage Monitors	Yes

(1) This facility uses PUC pipeline quality natural gas. Enforceable limits are "subsumed" by use of this fuel. (Reference: Section IX "Permit Shield" of this plant's Major Facility Review Permit.)