

TV Tracking #: 313

1. RECEIVED IN ENFORCEMENT: 09/29/2021



Powering The Center of What's Possible

September 29, 2021

To: Bay Area Air Quality Management District
Director of Compliance and Enforcement
375 Beale Street, Suite 600
San Francisco, CA 94105

Attn: Title V Reports

Subject: Title V Semi-annual Monitoring for City of Santa Clara, Silicon Valley Power (SVP) Cogeneration Plant, BAAQMD Plant No. A0621, Permit to Operate Condition 14194 (S-1, 2, 3, 4)

The City of Santa Clara Electric Department – Silicon Valley Power (SVP) – is submitting this semi-annual report in accordance with the Major Facility Review Permit Section I (Standard Conditions), Clause F (Monitoring Reports), and the Permit to Operate Condition 14194.

The permit requires a semi-annual reporting of operational hours and a reporting of specific events of non-compliance. During the period **March 1, 2021** through **August 31, 2021**, SVP completed all the required monitoring. There were no instances of non-compliance during this period. The attached forms provide data that details the compliance items.

I certify to the best of my knowledge that the statements and information contained in this report are true, accurate, and complete. A copy of this report has been sent to the Director of the Air Division, USEPA, Region IX.

Respectfully,

Kevin Kolnowski
Name of Responsible Official

Kevin M. Kolnowski
Signature

Chief Electric Operating Officer
Title of Responsible Official

9/29/2021
Date

Facility #A0621
City of Santa Clara,
Silicon Valley Power
Cogeneration Plant
524 Robert Avenue
Santa Clara, CA 95050

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, 2021** through **August 31, 2021**.

(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements
S1, S2-Gas Turbines w/Water Injection
S3, S4-Duct Burners

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 6-1-301	N		Ringelmann 1.0		N		Yes (1)
PM	SIP Regulation 6-301	Y		Ringelmann 1.0		N		Yes (1)
FP	BAAQMD Regulation 6-1-310.3	N		0.15 gr/dscf @ 6% O ₂		N		Yes (1)
FP	SIP Regulation 6-1-310.3	N		0.15 gr/dscf @ 6% O ₂		N		Yes (1)
NO _x	BAAQMD 9-9-301.1.1	N		42 ppmv @15% O ₂ (dry)	Condition #14194, Part 9 and 10, BAAQMD 9-9-504	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 Turbines w/Water Injection
S3, S4-Duct Burners

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	BAAQMD 9-9-301.1.1	N		42 ppmv @ 15% O ₂ (dry)	Condition #14194, part 8	C	Water-to-fuel monitoring	Yes
NOx	BAAQMD 9-9-301.2	N		42 ppmv @ 15% O ₂ (dry)	Condition #14194, parts 9 and 10, BAAQMD 9-9-504	P/A	Source test	Yes
NOx	BAAQMD 9-9-301.2	N		42 ppmv @ 15% O ₂ (dry)	Condition #14194, part 8	C	Water-to-fuel monitoring	Yes
NOx	BAAQMD 9-9-301.2	N	Up to 60 months after availability of commercially available technology	35 ppmv @ 15% O ₂ (dry)	Condition #14194, Parts 9 and 10, BAAQMD 9-9-504	P/A	Source test	N/A
NOx	BAAQMD 9-9-301.2	N	Up to 60 months after availability of commercially available technology	35 ppmv @ 15% O ₂ (dry)	Condition #14194, Part 8	C	Water-to-fuel monitoring	N/A

(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements (continued)
S1, S2-Gas Turbines w/Water Injection
S3, S4-Duct Burners

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	SIP 9-9-301.1.1	Y		42 ppmv @ 15% O ₂ (dry)	Condition #14194, parts 9 and 10	P/A	Source test	Yes
NOx	SIP 9-9-301.1.1	Y		42 ppmv @ 15% O ₂ (dry)	Condition #14194, part 8	C	Water-to-fuel monitoring	Yes
	NSPS Subpart GG 60.332 (a)(2)	Y		150 ppmv @ 15% O ₂ (dry)	NSPS Subpart GG 60.334(a)	C	Water-to-fuel monitoring	Yes (1)
NOx	Condition #14194, Part 4	Y		42 ppmv @ 15% O ₂ (dry), each turbine (except during startup and shutdown)	Condition #14194, parts 9 and 10	P/A	Source test	Yes
NOx	Condition #14194, Part 4	Y		42 ppmv @ 15% O ₂ (dry), each turbine (except during startup and shutdown)	Condition #14194, part 8	C	Water-to-fuel monitoring	Yes
NOx	Condition #14194, Part 5	Y		42 ppmv @ 15% O ₂ (dry), each turbine /supplemental burner combination	Condition #14194, parts 9 and 10	P/A	Source test	Yes

(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements (continued)
S1, S2-Gas Turbines w/Water Injection
S3, S4-Duct Burners

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
SO2	BAAQMD 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 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	40 CFR 60 Subpart GG 60.334 (h)(3)	N	None	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
	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
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 Monitoring	Yes

(Adapted from Table VII-A of the Major Facility Review Permit)
Applicable Limits and Compliance Monitoring Requirements (continued)
S1, S2-Gas Turbines w/Water Injection
S3, S4-Duct Burners

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
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric 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.

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-21 through Aug-21

I. Hours of Plant Operation:

For 6 months,				S-1 Gas Turbine	S-2 Gas Turbine	S-3 Supplemental Burner	S-4 Supplemental Burner
From	Mar-21	To	Aug-21				
Hours of Operation				3,838	4,240	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								
2								

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-21	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)	(1)			(1)		(1)	(1)			(1)	
1	0.60	1,296.99	24.00	80.85	0.00	0.00	0.59	1,291.01	24.00	79.03	0.00	0.00
2	0.60	1,293.66	24.00	80.85	0.00	0.00	0.59	1,288.71	24.00	79.07	0.00	0.00
3	0.60	1,291.68	24.00	80.85	0.00	0.00	0.59	1,284.63	24.00	78.96	0.00	0.00
4	0.60	1,212.87	24.00	73.71	0.00	0.00	0.59	1,230.47	24.00	73.95	0.00	0.00
5	0.60	1,266.92	24.00	78.49	0.00	0.00	0.59	1,281.98	24.00	78.36	0.00	0.00
6	0.60	1,259.96	24.00	77.51	0.00	0.00	0.59	1,288.26	24.00	78.53	0.00	0.00
7	0.60	1,272.67	24.00	78.42	0.00	0.00	0.59	1,286.59	24.00	79.19	0.00	0.00
8	0.60	1,274.23	24.00	78.51	0.00	0.00	0.59	1,295.22	24.00	79.02	0.00	0.00
9	0.60	1,281.43	24.00	78.81	0.00	0.00	0.59	1,301.58	24.00	79.37	0.00	0.00
10	0.60	1,310.88	24.00	81.02	0.00	0.00	0.59	1,315.45	24.00	80.41	0.00	0.00
11	0.60	1,305.60	24.00	80.81	0.00	0.00	0.59	1,306.94	24.00	80.12	0.00	0.00
12	0.60	1,297.82	24.00	80.54	0.00	0.00	0.59	1,291.51	24.00	79.19	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.59	308.88	8.00	17.40	0.00	0.00	0.59	362.83	9.00	20.21	0.00	0.00
20	0.60	1,208.31	24.00	73.37	0.00	0.00	0.59	1,231.66	24.00	73.80	0.00	0.00
21	0.60	1,292.51	24.00	80.69	0.00	0.00	0.59	1,314.08	24.00	81.08	0.00	0.00
22	0.60	1,278.81	24.00	79.59	0.00	0.00	0.59	1,301.13	24.00	79.96	0.00	0.00
23	0.60	1,291.83	24.00	80.93	0.00	0.00	0.59	1,311.55	24.00	81.05	0.00	0.00
24	0.60	1,288.78	24.00	80.49	0.00	0.00	0.59	1,305.73	24.00	80.57	0.00	0.00
25	0.60	1,292.13	24.00	80.30	0.00	0.00	0.59	1,313.01	24.00	81.24	0.00	0.00
26	0.60	1,289.31	24.00	80.12	0.00	0.00	0.59	1,304.98	24.00	80.47	0.00	0.00
27	0.60	1,282.15	24.00	80.06	0.00	0.00	0.59	1,299.03	24.00	80.26	0.00	0.00
28	0.60	1,279.98	24.00	79.73	0.00	0.00	0.59	1,300.98	24.00	80.30	0.00	0.00
29	0.60	1,297.53	24.00	80.48	0.00	0.00	0.59	1,315.53	24.00	81.04	0.00	0.00
30	0.59	923.62	18.00	57.35	0.00	0.00	0.59	937.57	18.00	57.69	0.00	0.00
31	0.59	592.68	13.00	36.323	0.00	0.00	0.59	630.70	13.00	37.706	0.00	0.00
TOTAL		29,991.25	567.00	1,857.20	0.00	0.00		30,402.12	568.00	1,860.58	0.00	0.00

Apr-21	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)	(1)	(1)	(1)	(1)	(1,2)	(1)	(1)	(1)	(1)	(1)	(1,2)
1	0.60	1,266.65	24.00	79.27	0.00	0.00	0.59	1,273.35	24.00	78.47	0.00	0.00
2	0.60	1,279.20	24.00	79.76	0.00	0.00	0.59	1,293.81	24.00	79.78	0.00	0.00
3	0.60	1,301.09	24.00	80.90	0.00	0.00	0.59	1,317.04	24.00	81.22	0.00	0.00
4	0.60	1,302.67	24.00	80.80	0.00	0.00	0.59	1,320.36	24.00	81.12	0.00	0.00
5	0.60	1,300.38	24.00	80.76	0.00	0.00	0.59	1,316.75	24.00	81.10	0.00	0.00
6	0.60	1,294.77	24.00	80.72	0.00	0.00	0.59	1,307.63	24.00	80.86	0.00	0.00
7	0.60	1,203.22	24.00	72.58	0.00	0.00	0.59	1,222.07	24.00	73.02	0.00	0.00
8	0.60	1,281.65	24.00	79.26	0.00	0.00	0.59	1,295.13	24.00	79.33	0.00	0.00
9	0.60	1,324.92	24.00	82.63	0.00	0.00	0.59	1,317.75	24.00	81.05	0.00	0.00
10	0.60	1,306.89	24.00	81.31	0.00	0.00	0.59	1,299.33	24.00	79.64	0.00	0.00
11	0.60	1,282.81	24.00	80.14	0.00	0.00	0.59	1,281.80	24.00	78.94	0.00	0.00
12	0.60	1,277.35	24.00	79.97	0.00	0.00	0.59	1,278.63	24.00	78.94	0.00	0.00
13	0.60	1,291.93	24.00	80.50	0.00	0.00	0.59	1,290.91	24.00	79.48	0.00	0.00
14	0.60	1,293.79	24.00	80.28	0.00	0.00	0.59	1,292.74	24.00	79.19	0.00	0.00
15	0.60	1,290.33	24.00	80.35	0.00	0.00	0.59	1,289.52	24.00	79.26	0.00	0.00
16	0.60	1,288.32	24.00	80.37	0.00	0.00	0.59	1,288.52	24.00	79.17	0.00	0.00
17	0.60	1,281.85	24.00	79.82	0.00	0.00	0.59	1,275.47	24.00	78.22	0.00	0.00
18	0.60	1,262.11	24.00	78.49	0.00	0.00	0.59	1,253.27	24.00	76.53	0.00	0.00
19	0.60	1,285.07	24.00	79.95	0.00	0.00	0.59	1,276.27	24.00	78.13	0.00	0.00
20	0.60	1,291.41	24.00	80.07	0.00	0.00	0.59	1,286.38	24.00	78.48	0.00	0.00
21	0.60	1,291.28	24.00	80.01	0.00	0.00	0.59	1,276.74	24.00	77.72	0.00	0.00
22	0.60	1,269.12	24.00	78.33	0.00	0.00	0.59	1,269.93	24.00	77.25	0.00	0.00
23	0.60	1,265.96	24.00	78.16	0.00	0.00	0.59	1,268.37	24.00	77.03	0.00	0.00
24	0.60	1,268.88	24.00	78.37	0.00	0.00	0.59	1,266.12	24.00	76.95	0.00	0.00
25	0.60	1,273.43	24.00	78.54	0.00	0.00	0.59	1,271.79	24.00	77.28	0.00	0.00
26	0.60	1,291.94	24.00	79.92	0.00	0.00	0.59	1,284.06	24.00	78.09	0.00	0.00
27	0.59	1,181.07	22.00	73.24	0.00	0.00	0.59	1,270.03	24.00	77.35	0.00	0.00
28	0.60	1,281.82	24.00	78.53	0.00	0.00	0.59	1,240.12	24.00	75.49	0.00	0.00
29	0.60	1,276.46	24.00	79.42	0.00	0.00	0.59	1,257.38	24.00	76.31	0.00	0.00
30	0.59	1,276.50	24.00	79.50	0.00	0.00	0.59	1,257.50	24.00	76.40	0.00	0.00
31												
TOTAL		38,362.88	718.00	2,381.95	0.00	0.00		38,434.79	720.00	2,351.82	0.00	0.00

(1) Fuel consumed is based on summarized one minute actual #Hr flow rates / 60 min/Hr * 21,084 BTU/# (Gas) normalized to the revenue meter to correct for Therm Factor.

May-21	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)	(1)	(1)	(1)	(1)	(1,2)	(1)	(1)	(1)	(1)	(1)	(1)	(1,2)
1	0.60	1,282.95	24.00	80.198	0.00	0.00	0.59	1,254.71	24.00	78.36	0.00	0.00
2	0.60	1,279.37	24.00	79.745	0.00	0.00	0.59	1,252.97	24.00	78.10	0.00	0.00
3	0.60	1,256.02	24.00	78.127	0.00	0.00	0.59	1,228.99	24.00	74.17	0.00	0.00
4	0.60	1,253.72	24.00	78.172	0.00	0.00	0.59	1,221.34	24.00	73.66	0.00	0.00
5	0.60	1,262.17	24.00	78.630	0.00	0.00	0.59	1,231.91	24.00	74.33	0.00	0.00
6	0.60	1,288.17	24.00	80.262	0.00	0.00	0.59	1,258.46	24.00	76.16	0.00	0.00
7	0.60	1,258.51	24.00	77.488	0.00	0.00	0.59	1,245.32	24.00	74.82	0.00	0.00
8	0.60	1,248.10	24.00	76.967	0.00	0.00	0.59	1,230.00	24.00	73.64	0.00	0.00
9	0.60	1,253.02	24.00	77.451	0.00	0.00	0.59	1,232.66	24.00	74.01	0.00	0.00
10	0.60	1,239.42	24.00	76.633	0.00	0.00	0.59	1,216.05	24.00	72.91	0.00	0.00
11	0.60	1,255.75	24.00	77.917	0.00	0.00	0.59	1,220.16	24.00	73.19	0.00	0.00
12	0.60	1,194.44	24.00	72.574	0.00	0.00	0.59	1,192.04	24.00	71.08	0.00	0.00
13	0.60	1,276.72	24.00	79.399	0.00	0.00	0.59	1,243.10	24.00	74.95	0.00	0.00
14	0.60	1,282.56	24.00	79.771	0.00	0.00	0.59	1,244.48	24.00	75.32	0.00	0.00
15	0.60	1,279.94	24.00	79.431	0.00	0.00	0.59	1,246.40	24.00	75.61	0.00	0.00
16	0.60	1,281.98	24.00	79.349	0.00	0.00	0.59	1,246.29	24.00	75.02	0.00	0.00
17	0.60	1,296.02	24.00	79.876	0.00	0.00	0.59	1,259.97	24.00	75.49	0.00	0.00
18	0.60	1,285.58	24.00	79.177	0.00	0.00	0.59	1,251.16	24.00	74.87	0.00	0.00
19	0.60	1,292.31	24.00	79.715	0.00	0.00	0.59	1,262.81	24.00	75.70	0.00	0.00
20	0.60	1,294.08	24.00	79.960	0.00	0.00	0.59	1,269.27	24.00	76.24	0.00	0.00
21	0.60	1,285.74	24.00	79.540	0.00	0.00	0.59	1,250.82	24.00	75.11	0.00	0.00
22	0.60	1,287.82	24.00	79.340	0.00	0.00	0.59	1,253.26	24.00	75.01	0.00	0.00
23	0.60	1,294.94	24.00	79.710	0.00	0.00	0.59	1,260.80	24.00	75.48	0.00	0.00
24	0.60	1,277.45	24.00	79.010	0.00	0.00	0.59	1,240.80	24.00	74.50	0.00	0.00
25	0.60	1,271.39	24.00	78.952	0.00	0.00	0.59	1,233.97	24.00	74.43	0.00	0.00
26	0.60	1,268.24	24.00	78.874	0.00	0.00	0.59	1,231.26	24.00	74.34	0.00	0.00
27	0.60	1,228.30	24.00	75.477	0.00	0.00	0.59	1,215.91	24.00	73.33	0.00	0.00
28	0.60	1,237.12	24.00	76.352	0.00	0.00	0.59	1,213.62	24.00	73.39	0.00	0.00
29	0.60	1,276.53	24.00	79.398	0.00	0.00	0.59	1,234.39	24.00	75.11	0.00	0.00
30	0.60	1,241.14	24.00	76.889	0.00	0.00	0.59	1,203.55	24.00	72.75	0.00	0.00
31	0.60	1,215.77	24.00	74.90	0.00	0.00	0.59	1,183.23	24.00	71.04	0.00	0.00
TOTAL		39,244.25	744.00	2,429.28	0.00	0.00		38,329.70	744.00	2,308.11	0.00	0.00

Jun-21	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)	(1)	(1)	(1)	(1)	(1,2)	(1)	(1)	(1)	(1)	(1)	(1)	(1,2)
1	0.60	1,223.69	24.00	75.170	0.00	0.00	0.59	1,194.59	24.00	71.63	0.00	0.00
2	0.60	1,253.13	24.00	77.390	0.00	0.00	0.59	1,214.44	24.00	73.09	0.00	0.00
3	0.60	1,235.63	24.00	76.192	0.00	0.00	0.59	1,195.89	24.00	71.84	0.00	0.00
4	0.60	1,244.48	24.00	76.882	0.00	0.00	0.59	1,204.76	24.00	72.47	0.00	0.00
5	0.60	1,243.12	24.00	76.658	0.00	0.00	0.59	1,199.38	24.00	71.99	0.00	0.00
6	0.60	1,257.71	24.00	77.180	0.00	0.00	0.59	1,213.97	24.00	72.67	0.00	0.00
7	0.60	1,273.12	24.00	78.180	0.00	0.00	0.59	1,233.67	24.00	74.00	0.00	0.00
8	0.60	1,281.93	24.00	78.850	0.00	0.00	0.59	1,239.22	24.00	74.38	0.00	0.00
9	0.60	1,280.94	24.00	79.026	0.00	0.00	0.59	1,242.70	24.00	74.85	0.00	0.00
10	0.60	1,284.45	24.00	79.252	0.00	0.00	0.59	1,240.71	24.00	74.70	0.00	0.00
11	0.60	1,267.89	24.00	78.128	0.00	0.00	0.59	1,224.63	24.00	73.57	0.00	0.00
12	0.60	1,240.40	24.00	76.360	0.00	0.00	0.59	1,196.25	24.00	71.78	0.00	0.00
13	0.60	1,235.64	24.00	76.270	0.00	0.00	0.59	1,191.67	24.00	71.59	0.00	0.00
14	0.60	1,251.44	24.00	77.273	0.00	0.00	0.59	1,202.73	24.00	72.16	0.00	0.00
15	0.60	1,253.32	24.00	77.972	0.00	0.00	0.59	1,204.42	24.00	72.67	0.00	0.00
16	0.60	1,212.48	24.00	75.203	0.00	0.00	0.59	1,169.09	24.00	70.25	0.00	0.00
17	0.60	1,181.75	24.00	72.983	0.00	0.00	0.59	1,142.75	24.00	68.36	0.00	0.00
18	0.60	1,193.71	24.00	73.421	0.00	0.00	0.59	1,152.54	24.00	68.59	0.00	0.00
19	0.60	1,215.14	24.00	75.469	0.00	0.00	0.59	1,163.84	24.00	69.72	0.00	0.00
20	0.60	1,232.14	24.00	76.690	0.00	0.00	0.59	1,178.66	24.00	70.79	0.00	0.00
21	0.60	1,244.74	24.00	77.410	0.00	0.00	0.59	1,184.19	24.00	70.99	0.00	0.00
22	0.60	1,236.19	24.00	76.703	0.00	0.00	0.59	1,179.95	24.00	70.68	0.00	0.00
23	0.60	1,247.04	24.00	77.374	0.00	0.00	0.59	1,188.42	24.00	71.18	0.00	0.00
24	0.60	1,257.04	24.00	77.893	0.00	0.00	0.59	1,197.70	24.00	71.68	0.00	0.00
25	0.60	1,256.91	24.00	77.912	0.00	0.00	0.59	1,199.85	24.00	71.85	0.00	0.00
26	0.60	1,247.71	24.00	77.133	0.00	0.00	0.59	1,192.39	24.00	71.21	0.00	0.00
27	0.60	1,255.05	24.00	77.515	0.00	0.00	0.59	1,196.47	24.00	71.42	0.00	0.00
28	0.60	1,249.31	24.00	77.234	0.00	0.00	0.59	1,190.62	24.00	71.10	0.00	0.00
29	0.60	1,240.12	24.00	76.692	0.00	0.00	0.59	1,183.26	24.00	70.64	0.00	0.00
30	0.59	1,240.20	24.00	76.800	0.00	0.00	0.59	1,183.40	24.00	70.75	0.00	0.00
31												
TOTAL		37,336.45	720.00	2,307.21	0.00	0.00		35,902.16	720.00	2,152.58	0.00	0.00

(1) Fuel consumed is based on summarized one minute actual #/Hr flow rates / 60 min/Hr * 21,084 BTU/# (Gas) normalized to the revenue meter to correct for Therm Factor.

Jul-21	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)	(1)	(1)	(1)	(1)	(1,2)	(1)	(1)	(1)	(1)	(1)	(1)	(1,2)
1	0.60	1,237.67	24.00	76.65	0.00	0.00	0.59	1,177.18	24.00	70.40	0.00	0.00
2	0.60	1,239.19	24.00	76.74	0.00	0.00	0.59	1,179.67	24.00	70.55	0.00	0.00
3	0.60	1,241.53	24.00	76.95	0.00	0.00	0.59	1,182.26	24.00	70.84	0.00	0.00
4	0.60	1,243.66	24.00	76.67	0.00	0.00	0.59	1,187.84	24.00	70.95	0.00	0.00
5	0.60	1,251.88	24.00	77.88	0.00	0.00	0.59	1,190.77	24.00	71.55	0.00	0.00
6	0.60	1,256.84	24.00	77.98	0.00	0.00	0.59	1,197.88	24.00	72.02	0.00	0.00
7	0.60	1,257.48	24.00	78.00	0.00	0.00	0.59	1,199.09	24.00	72.07	0.00	0.00
8	0.60	1,216.47	24.00	74.90	0.00	0.00	0.59	1,166.30	24.00	69.61	0.00	0.00
9	0.60	1,193.42	24.00	73.40	0.00	0.00	0.59	1,148.32	24.00	68.38	0.00	0.00
10	0.60	1,204.15	24.00	74.09	0.00	0.00	0.59	1,162.41	24.00	69.34	0.00	0.00
11	0.60	1,223.88	24.00	76.15	0.00	0.00	0.59	1,173.85	24.00	70.67	0.00	0.00
12	0.60	1,233.54	24.00	76.99	0.00	0.00	0.59	1,178.14	24.00	71.29	0.00	0.00
13	0.59	683.20	14.00	42.75	0.00	0.00	0.59	1,175.98	24.00	70.96	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,180.79	24.00	70.20	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,197.40	24.00	70.99	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,186.47	24.00	70.08	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,172.35	24.00	68.97	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,162.41	24.00	68.19	0.00	0.00
19	0.59	421.90	9.00	26.30	0.00	0.00	0.59	1,163.84	24.00	68.33	0.00	0.00
20	0.60	1,261.44	24.00	79.84	0.00	0.00	0.59	1,168.61	24.00	68.79	0.00	0.00
21	0.60	1,234.68	24.00	77.57	0.00	0.00	0.59	1,163.35	24.00	68.35	0.00	0.00
22	0.60	1,220.93	24.00	76.22	0.00	0.00	0.59	1,169.94	24.00	68.84	0.00	0.00
23	0.60	1,219.19	24.00	75.96	0.00	0.00	0.59	1,162.01	24.00	68.18	0.00	0.00
24	0.60	1,219.08	24.00	75.74	0.00	0.00	0.59	1,161.23	24.00	67.90	0.00	0.00
25	0.59	524.06	13.00	32.30	0.00	0.00	0.59	1,157.32	24.00	67.52	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,161.66	24.00	67.75	0.00	0.00
27	0.59	573.83	12.00	35.46	0.00	0.00	0.59	1,144.39	24.00	65.70	0.00	0.00
28	0.60	1,216.24	24.00	75.88	0.00	0.00	0.59	1,152.01	24.00	67.28	0.00	0.00
29	0.60	1,213.93	24.00	75.67	0.00	0.00	0.59	1,147.54	24.00	66.99	0.00	0.00
30	0.60	1,212.48	24.00	75.61	0.00	0.00	0.59	1,149.16	24.00	67.22	0.00	0.00
31	0.60	1,215.56	24.00	75.69	0.00	0.00	0.59	1,151.15	24.00	67.30	0.00	0.00
TOTAL		28,016.21	552.00	1,741.19	0.00	0.00		36,271.32	744.00	2,148.20	0.00	0.00

Aug-21	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)	(1)	(1)	(1)	(1)	(1,2)	(1)	(1)	(1)	(1)	(1)	(1)	(1,2)
1	0.60	1,222.86	24.00	75.95	0.00	0.00	0.59	1,162.77	24.00	68.08	0.00	0.00
2	0.60	1,222.53	24.00	75.92	0.00	0.00	0.59	1,164.56	24.00	68.25	0.00	0.00
3	0.60	1,228.81	24.00	76.60	0.00	0.00	0.59	1,161.92	24.00	68.17	0.00	0.00
4	0.60	1,242.81	24.00	77.64	0.00	0.00	0.59	1,169.38	24.00	68.77	0.00	0.00
5	0.60	1,242.97	24.00	77.78	0.00	0.00	0.59	1,165.78	24.00	68.68	0.00	0.00
6	0.60	1,222.13	24.00	76.31	0.00	0.00	0.59	1,148.28	24.00	67.36	0.00	0.00
7	0.60	1,220.81	24.00	76.24	0.00	0.00	0.59	1,149.14	24.00	67.53	0.00	0.00
8	0.60	1,232.00	24.00	76.42	0.00	0.00	0.59	1,158.19	24.00	67.61	0.00	0.00
9	0.60	1,235.18	24.00	76.61	0.00	0.00	0.59	1,160.41	24.00	67.75	0.00	0.00
10	0.60	1,223.93	24.00	75.67	0.00	0.00	0.59	1,149.76	24.00	68.89	0.00	0.00
11	0.60	1,214.76	24.00	75.24	0.00	0.00	0.59	1,147.02	24.00	66.98	0.00	0.00
12	0.60	1,212.14	24.00	74.96	0.00	0.00	0.59	1,147.03	24.00	66.98	0.00	0.00
13	0.60	1,216.55	24.00	75.22	0.00	0.00	0.59	1,150.57	24.00	67.23	0.00	0.00
14	0.60	1,222.29	24.00	75.03	0.00	0.00	0.59	1,156.13	24.00	67.16	0.00	0.00
15	0.60	1,223.56	24.00	74.52	0.00	0.00	0.59	1,160.00	24.00	66.99	0.00	0.00
16	0.60	1,217.21	24.00	74.19	0.00	0.00	0.59	1,149.89	24.00	66.43	0.00	0.00
17	0.60	1,215.13	24.00	74.45	0.00	0.00	0.59	1,147.73	24.00	66.70	0.00	0.00
18	0.60	1,196.53	24.00	72.31	0.00	0.00	0.59	1,162.49	24.00	67.50	0.00	0.00
19	0.60	1,223.94	24.00	74.87	0.00	0.00	0.59	1,161.81	24.00	67.66	0.00	0.00
20	0.60	1,225.20	24.00	74.65	0.00	0.00	0.59	1,162.69	24.00	67.46	0.00	0.00
21	0.60	1,220.29	24.00	74.62	0.00	0.00	0.59	1,160.24	24.00	67.81	0.00	0.00
22	0.59	837.96	17.00	51.41	0.00	0.00	0.59	1,160.52	24.00	67.88	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,172.90	24.00	68.40	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,174.57	24.00	68.52	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,175.20	24.00	68.75	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,151.04	24.00	67.01	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,117.29	24.00	64.56	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,105.91	24.00	63.99	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,130.60	24.00	65.75	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.59	1,140.55	24.00	66.33	0.00	0.00
31	0.59	799.58	16.00	50.305	0.00	0.00	0.59	1,142.17	24.00	66.29	0.00	0.00
TOTAL		27,319.08	537.00	1,636.63	0.00	0.00		35,766.53	744.00	2,085.48	0.00	0.00

(1) Fuel consumed is based on summarized one minute actual #/Hr flow rates / 60 min/Hr * 21,084 BTU# (Gas) normalized to the revenue meter to correct for Therm Factor.