February 9, 2020
Facility # B6151

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street
Suite 600
San Francisco, CA 94105-2097
Attn: Title V Reports

Subject: Title V Semi-Annual Monitoring Report for the period August 1, 2019 to January 31, 2020

The Energy Center San Francisco herewith submits the Semi-Annual Report for Facility B6151. This report includes detailed reports and compliance reporting for the following sources for the Semi-Annual period August 1, 2019 to January 31, 2020:

S-3: Boiler 3
Status: Full Compliance

S-4: Boiler 4
Status: Full Compliance

S-5: Boiler 5
Status: Full Compliance

S-6: Boiler 6
Status: Full Compliance

S-7: Boiler 7
Status: Full Compliance

S-9: Boiler 8
Status: Full Compliance

S10: UST Tank #3
Status: Full Compliance (exempt source)

S-11: UST Tank #4
Status: Full Compliance (exempt source)

S-12: UST Tank #5

Status: Full Compliance (exempt source)

S-13: Emergency Standby Diesel Engine
Status: Full Compliance

Compliance Certification

Based on information and belief formed after reasonable inquiry, the statements and information in this report and the attached Compliance Certification Report form are true, accurate, and complete.

Sincerely,

Ted Vincent
Plant Manager
Facility #B6151

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Table VII-A
S-3 Boiler No. 3 & S-4 Boiler No. 4

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
Oxides of Nitrogen	BAAQMD 9-7-301.1	N	30 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-301.2	N	40 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.5	N	9 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.1	Y	30 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-305.1	Y	150 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-306.1	Y	150 ppmv, dry @ 3% O_2		N		Continuous
Carbon Monoxide	BAAQMD 9-7-301.4	N	400 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.5	N	400 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.2	Y	400 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-305.2	Y	400 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-306.2	Y	400 ppmv, dry @ 3% O_2		N		Continuous
Opacity	BAAQMD 6-1-301	N	≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
Opacity	SIP 6-301	Y	≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
FP	BAAQMD 6-1-310.3	N	0.15 grain/dscf @ 6% O_2		N		Continuous
FP	SIP 6-310.3	Y	0.15 grain/dscf @ 6% O_2		N		Continuous
SO2	SIP 9-1-302	Y	300 ppm (dry)		N		Continuous
	SIP 9-1-304	Y	Sulfur content of fuel <0.5% by weight		N		Continuous
SO2	BAAQMD 9-1-302	N	300 ppm (dry)		N		Continuous
	BAAQMD 9-1-304	N	Sulfur content of fuel <0.5% by weight		N		Continuous
Stack Gas Temperature	BAAQMD 9-7-312	N	150°F over saturated steam temperature		N		Continuous

Table VII-A
S-5 Boiler No. 5 & S-6 Boiler No. 6

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
Oxides of Nitrogen	BAAQMD 9-7-112.2	N	30 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	SIP 9-7-301.1	Y	30 ppmv, dry @ 3% O_2		N		Continuous
	SIP 9-7-303	Y	Weighted average of 9-7-301.1 and 9-7-302.1	SIP 9-7-501	C	Non-resettable fuel meters	Continuous
	SIP 9-7-305.1	Y	150 ppmv, dry @ 3% O_2		N		Continuous
	SIP 9-7-306.1	Y	150 ppmv, dry @ 3% O_2		N		Continuous
Carbon Monoxide	BAAQMD 9-7-112.2	N	400 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source test	Continuous
	BAAQMD 9-7-307.6	N	400 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.2	Y	400 ppmv, dry @ 3% O_2		N		Continuous
	SIP 9-7-305.2	Y	400 ppmv, dry @ 3% O_2		N		Continuous
	SIP 9-7-306.2	Y	400 ppmv, dry @ 3% O_2		N		Continuous
Opacity	BAAQMD 6-1-301	N	≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
	SIP 6-301	Y	≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
FP	BAAQMD 6-1-310.3	N	0.15 grain/dscf @ 6% O_2		N		Continuous
FP	SIP 6-310.3	Y	0.15 grain/dscf @ 6% O_2		N		Continuous
SO2	SIP 9-1-302	Y	300 ppm (dry)		N		Continuous

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
	SIP 9-1-304	Y	Sulfur content of fuel <0.5% by weight		N		Continuous
	BAAQMD 9-1-302	N	300 ppm (dry)		N		Continuous
Fuel Sulfur Content	BAAQMD 9-1-304	N	Sulfur content of fuel <0.5% by weight		N		Continuous
Stack Gas Temperature	BAAQMD 9-7-312	N	150°F over saturated steam temperature		N		Continuous

Table VII-C
S-7 BOILER NO. 7

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
Oxides of Nitrogen	BAAQMD 9-7-301.1	N	30 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-301.2	N	40 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.4	N	15 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.1	Y	30 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-303	Y	Weighted average of 9-7-301.1 and 9-7-302.1	SIP 9-7-501	C	Non-resettable fuel meters	Continuous
Oxides of Nitrogen	SIP 9-7-305.1	Y	150 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-306.1	Y	150 ppmv, dry @ 3% O_2		N		Continuous
Carbon Monoxide	BAAQMD 9-7-301.4	N	400 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.4	N	400 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.2	Y	400 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-305.2	Y	400 ppmv, dry @ 3% O_2		P/A	Source test	Continuous
	SIP 9-7-306.2	Y	400 ppmv, dry @ 3% O_2		N		Continuous
Opacity	BAAQMD 6-1-301	N	$\geq$ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
	SIP 6-301	Y	$\geq$ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
FP	BAAQMD 6-1-310.3	N	0.15 grain/dscf @ 6% O_2		N		Continuous
	SIP 6-310.3	Y	0.15 grain/dscf @ 6% O_2		N		Continuous
SO2	SIP 9-1-302	Y	300 ppm (dry)		N		Continuous
	SIP 9-1-304	Y	Sulfur content of fuel <0.5% by weight		N		Continuous
	BAAQMD 9-1-302	N	300 ppm (dry)		N		Continuous
Fuel Sulfur Content	BAAQMD 9-1-304	N	Sulfur content of fuel <0.5% by weight		N		Continuous
Stack Gas Temperature	BAAQMD 9-7-312	N	150°F over saturated steam temperature		N		Continuous

Table VII-D
S-9 Boiler No. 8

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
Oxides of Nitrogen	BAAQMD 9-7-301.1		30 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-301.2		40 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.6		5 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.1		30 ppmv, dry @ 3% O_2		N		Continuous
	BAAQMD Condition #21200, part 3		9 ppmv, dry @ 3% O_2, averaged over 3 hours	BAAQMD Condition #21200, part 9	P/A	Source Test	Continuous
Carbon Monoxide	BAAQMD 9-7-301.4		400 ppmv, dry @ 3% O_2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.6		400 ppmv, dry @ 3% O_2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
Carbon Monoxide	SIP 9-7-301.2		400 ppmv, dry @ 3% O_2		N		Continuous
	BAAQMD Condition #21200, part 4		50 ppmv, dry @ 3% O_2, averaged over 3 hours	BAAQMD Condition #21200, part 9	P/initial	Source Test	Continuous
Opacity	BAAQMD 6-1-301		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
	SIP 6-301		≥ Ringelmann No. 1 for no more than 3 minutes in any one hour		N		Continuous
FP	BAAQMD 6-1-310.3		0.15 grain/dscf @ 6% O_2		N		Continuous

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
	SIP 6-310.3		0.15 grain/dscf @ 6% O_2		N		Continuous
SO2	BAAQMD 9-1-302		300 ppm (dry)		N		Continuous
	BAAQMD 9-1-304		Sulfur content of fuel <0.5% by weight		N		Continuous
	SIP 9-1-302		300 ppm (dry)		N		Continuous
Heat Input Rate	BAAQMD Condition #21200, part 1		99.93 MMBTU/hr	BAAQMD Condition #21200, part 11	P/M	Records	Continuous
Fuel usage	BAAQMD Condition #21200, part 5		8,730,000 therms per rolling 12 months	BAAQMD Condition #21200, part 11	P/M	Records	Continuous
Stack Gas Temperature	BAAQMD 9-7-312	1/1/13	150°F over saturated steam temperature		N		Continuous

Table VII-E
Applicable Limits and Compliance Monitoring Requirements
S-13 Standby Generator Diesel Engine

Type of Limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
Opacity	BAAQMD 6-1-303.1	N	≥ Ringelmann No. 2 for no more than 3 minutes in any hour		N		Continuous
	SIP 6-303.1	Y	≥ Ringelmann No. 2 for no more than 3 minutes in any hour		N		Continuous
FP	BAAQMD 6-1-310.3	N	0.15 grain/dscf @ 6% O2		N		Continuous
	SIP 6-310.3	Y	0.15 grain/dscf @ 6% O2		N		Continuous
SO2	BAAQMD 9-1-301	N	GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Continuous
	BAAQMD 9-1-304	N	Fuel sulfur content limit of 0.5% by weight		N		Continuous
	SIP 9-1-301	Y	GLC[1] of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		Continuous
	SIP 9-1-304	Y	Fuel sulfur content limit of 0.5% by weight		N		Continuous
Hours of Operation	BAAQMD condition #22820, part 1		20 hours per year discretionary operation	BAAQMD condition #22820, part 3	C	Totalizing counter	Continuous

Fuel Usage by Boiler

Boiler / Source	Natural Gas (therms)	Diesel Oil (gal)	Comments
Boiler 3 / S3	145996	0	
Boiler 4 / S4	940523	0	
Boiler 5 / S5	181784	0	
Boiler 6 / S6	306863	0	
Boiler 7 / S7	2765676	0	
Boiler 8 / S9	1027969	1222	Oil compliance tests: 4/24 & 5/8
Total	5368811	1222 gallons	

Note: Heat content Natural Gas fuel is 1019 BTU/scf.

Emergency Standby Generator Log (S-13)

Date	Hour Meter Reading			Total Hours	12 mo. Rolling (hrs)	Total Fuel Usage (gal)	Notes
	Time	Start	Stop				
2019	0	0300.9	0300.9	0	0	0	Note: This entry is from the prior report.
2019	0	0300.9	0300.9	0	0	0	Note: There was no usage during the year.