February 9, 2020 Facility # B6151

## RECEIVED

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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,

Feletima

Ted Vincent Plant Manager Facility #B6151

### VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

Type of limitCitation of LimitFE Y/NLimit		Limit	nit Requirement Citation		Monitoring Type	Compliance Status	
Oxides of Nitrogen	BAAQMD 9-7-301.1	N	30 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD Condition	P/A	Source Test	Continuous
				#21200, part 10			
	BAAQMD	N	40 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD	P/A	Source Test	Continuous
	9-7-301.2			Condition			
				#21200, part 10			
	BAAQMD	N	9 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD	P/A	Source Test	Continuous
	9-7-307.5			9-7-403,			
				9-7-506			
	SIP	Y	30 ppmv, dry @ 3% O2		P/A	Source test	Continuous
	9-7-301.1						
	SIP	Y	150 ppmv, dry @ 3%		P/A	Source test	Continuous
	9-7-305.1		O2				
	SIP	Y	150 ppmv, dry @ 3%		N		Continuous
	9-7-306.1		O2				
Carbon	BAAQMD	N	400 ppmv, dry @ 3%	BAAQMD	P/A	Source Test	Continuous
Monoxide	9-7-301.4		O2	Condition			
				#21200, part 10			
	BAAQMD	N	400 ppmv, dry @ 3%	BAAQMD	P/A	Source Test	Continuous
	9-7-307.5		O2	9-7-403,			
				9-7-506			
	SIP	Y	400 ppmv, dry @ 3%		P/A	Source test	Continuous
	9-7-301.2		O2				
	SIP	Y	400 ppmv, dry @ 3%		P/A	Source test	Continuous
	9-7-305.2		O2				
	SIP	Y	400 ppmv, dry @ 3%		N		Continuous
	9-7-306.2		O2				
Opacity	BAAQMD	N	≥ Ringelmann No. 1 for		N		Continuous
	6-1-301		no more than 3 minutes				
			in any one hour				
Opacity	SIP 6-301	Y	$\geq$ Ringelmann No. 1 for		N		Continuous
			no more than 3 minutes				
			in any one hour				

# Table VII-AS-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
FP	BAAQMD	N	0.15 grain/dscf		N		Continuous
	6-1-310.3		@ 6% O <sub>2</sub>				
FP	SIP 6-	Y	0.15 grain/dscf		N		Continuous
	310.3		@ 6% O2				
SO2	SIP 9-1-	Y	300 ppm (dry)		N		Continuous
	302						
	SIP 9-1-	Y	Sulfur content of fuel		N		Continuous
	304		<0.5% by weight				
SO2	BAAQMD	N	300 ppm (dry)		N		Continuous
	9-1-302						
	BAAQMD	N	Sulfur content of fuel		N		Continuous
	9-1-304		<0.5% by weight				
Stack Gas	BAAQMD	N	150°F over saturated		N		Continuous
Temperatur	9-7-312		steam temperature				
e							

Table VII-A								
S-5 BOILER NO. 5 & S-6 BOILER NO. 6								

Type of limit	f Citation of FE Limit 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 <sub>2</sub>	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	SIP 9-7-301.1	Y	30 ppmv, dry @ 3% O <sub>2</sub>		N		Continuous
	SIP 9-7-303	Y	Weighted average of 9- 7-301.1 and 9-7-302.1	SIP 9-7-501	С	Non- resettable fuel meters	Continuous
	SIP 9-7-305.1	Y	150 ppmv, dry @ 3% O2		N		Continuous
	SIP 9-7-306.1	Y	150 ppmv, dry @ 3% O2		N		Continuous
Carbon Monoxide	BAAQMD 9-7-112.2	N	400 ppmv, dry @ 3% O2	BAAQMD Condition #21200, part 10	P/A	Source test	Continuous
	BAAQMD 9-7-307.6	N	400 ppmv, dry @ 3% O2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.2	Y	400 ppmv, dry @ 3% O2		N		Continuous
	SIP 9-7-305.2	Y	400 ppmv, dry @ 3% O2		N		Continuous
	SIP 9-7-306.2	Y	400 ppmv, dry @ 3% O2		Ν		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 <sub>2</sub>		N		Continuous
FP	SIP 6- 310.3	Y	0.15 grain/dscf @ 6% O2		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		Ν		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 Temperatur e	BAAQMD 9-7-312	N	150°F over saturated steam temperature		N		Continuous

# Table VII-CS-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 <sub>2</sub>	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-301.2	N	40 ppmv, dry @ 3% O2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.4	N	15 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.1	Y	30 ppmv, dry @ 3% O <sub>2</sub>		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	С	Non- resettable fuel meters	Continuous
Oxides of Nitrogen	SIP 9-7-305.1	Y	150 ppmv, dry @ 3% O2		P/A	Source test	Continuous
	SIP 9-7-306.1	Y	150 ppmv, dry @ 3% O2		N		Continuous
Carbon Monoxide	BAAQMD 9-7-301.4	N	400 ppmv, dry @ 3% O2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.4	N	400 ppmv, dry @ 3% O2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.2	Y	400 ppmv, dry @ 3% O2		P/A	Source test	Continuous
	SIP 9-7-305.2	Y	400 ppmv, dry @ 3% O2		P/A	Source test	Continuous
	SIP 9-7-306.2	Y	400 ppmv, dry @ 3% O2		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

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance Status
FP	BAAQMD	N	0.15 grain/dscf		N		Continuous
	6-1-310.3		@ 6% O <sub>2</sub>				
	SIP 6-	Y	0.15 grain/dscf		N		Continuous
	310.3		@ 6% O <sub>2</sub>				
SO2	SIP 9-1-	Y	300 ppm (dry)		N		Continuous
	302						
	SIP 9-1-	Y	Sulfur content of fuel		N		Continuous
	304		<0.5% by weight				
	BAAQMD	Ν	300 ppm (dry)		N		Continuous
	9-1-302		[1] and [1] [2] [3] [3] [4]				
Fuel Sulfur	BAAQMD	Ν	Sulfur content of fuel		N		Continuous
Content	9-1-304		<0.5% by weight				
Stack Gas	BAAQMD	Ν	150°F over saturated		N		Continuous
Temperatur	9-7-312		steam temperature				
е							

### Table VII-D S-9 Boiler No. 8

Type of limit	Citation of Limit	FE Y/N	Limit	Monitoring Requirement Citation	Monito ring Freque ncy (P/C/N)	Monitoring Type	Compliance Status
Oxides of Nitrogen	BAAQMD 9-7-301.1		30 ppmv, dry @ 3% O2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-301.2		40 ppmv, dry @ 3% O2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.6		5 ppmv, dry @ 3% O2	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
	SIP 9-7-301.1		30 ppmv, dry @ 3% O2		N		Continuous
	BAAQMD Condition #21200, part 3		9 ppmv, dry @ 3% O <sub>2</sub> , 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% O2	BAAQMD Condition #21200, part 10	P/A	Source Test	Continuous
	BAAQMD 9-7-307.6		400 ppmv, dry @ 3% O <sub>2</sub>	BAAQMD 9-7-403, 9-7-506	P/A	Source Test	Continuous
Carbon Monoxide	SIP 9-7-301.2		400 ppmv, dry @ 3% O <sub>2</sub>		N		Continuous
	BAAQMD Condition #21200, part 4		50 ppmv, dry @ 3% O <sub>2</sub> , 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% O2		N		Continuous

Type of limit	Limit Y/N		Monitoring Requirement Citation	Monito ring Freque ncy (P/C/N)	Monitoring Type	Compliance Status	
	SIP 6- 310.3		0.15 grain/dscf @ 6% O <sub>2</sub>		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 P/M Records Condition #21200, part 11		Continuous	
Stack Gas Temperatur e	BAAQMD 9-7-312	1/1/1 3	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	Monitor ing Frequen cy (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		N		Continuous
	SIP 6- 303.1	Y	hour ≥ 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 <sup>1</sup> 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-         Y         GLC <sup>1</sup> of 0.5 ppm for 3 min or           301         0.25 ppm for 60 min or 0.05		GLC <sup>1</sup> of 0.5 ppm for 3 min or		N		Continuous
	SIP 9-1- 304	Y	Fuel sulfur content limit of 0.5% by weight		N		Continuous
Hours of Operatio n	BAAQMD condition #22820, part 1		20 hours per year discretionary operation	BAAQMD condition #22820, part 3	С	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 Rea	ading	Total	12 mo. Rolling	Total Fuel	Notes
Date	Time	Start	Stop	Hours	(hrs)	Usage (gal)	Noles
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.