

June 21, 2023

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

TV Tracking #: 712 (resubmittal)

1.  RECEIVED IN  
ENFORCEMENT: 06/23/2023

Via email attachment

**Re: Los Medanos Energy Center Facility B1866  
Title V Semi-Annual Monitoring Report  
Reporting Period: October 1, 2022 through March 31, 2023  
Correction to initial submittal on April 27<sup>th</sup>, 2023**


During the reporting period LMEC was intermittently in compliance with Title V permit conditions. The following table summarizes five (5) instances of CEMS equipment malfunctions that resulted in non-compliance with Title V permit conditions. Copies of the submitted RCA's are included as attachments to this report. All other previously submitted documentation will not be reproduced in this report.

Date	Unit	Description
11/9/22	Unit 1 CEMS	Stack sample pump failure resulted in erroneous NOx emissions (ppmv, lb/mmBTU, lbs) (Breakdown and RCA IDs# 08N22/23) BAAQMD Disposition – Pending
11/12/22	Unit 1 CEMS	Total Heat Input exceeded during calendar day. (RCA ID# 08N34) BAAQMD Disposition – No Action.
11/19/22	Unit 1 CEMS	Power disruption to the stack sampling system resulted in NOx lbs exceedance during unit shutdown. (RCA ID# 08N59) BAAQMD Disposition – Pending
3/5/23	Unit 1 CEMS	Moisture sensor relay failure resulted in erroneous NOx emissions (ppmv, lb/mmBTU, lbs) (RCA ID# 08R16) BAAQMD Disposition – Pending
3/15/23	Unit 1 CEMS	Turbine control logic failure resulted in NOx lbs exceedance during unit shutdown. (Breakdown and RCA IDs# 08R52/53) BAAQMD Disposition – Pending
3/26/23	Auxiliary Boiler CEMS	Loss of ammonia flow indication resulted in the loss of the real time ammonia slip calculation. The inability to calculate ammonia slip was not immediately recognized as monitoring downtime. (Inoperative monitor RCA ID#08R46) BAAQMD Disposition – NOV A60874 issued for failure to report inoperative monitor within required timeframe.

Should you have any questions, please contact Diana West at (925) 252-2069.

*As a Responsible Official, I certify that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.*

Sincerely,

DocuSigned by:  
  
81C6B6B202A4494...

Chris German  
Vice President Regional Operations  
Authorized Signatory

cc: California Energy Commission                      Via email attachment  
[EHSWalnutCreek@calpine.com](mailto:EHSWalnutCreek@calpine.com)                      Via email attachment

Attachments:

Title V CEMS Semi-Annual Monitoring Report 10/1/22 – 3/31/23  
BAAQMD Episode Report Forms 10/1/22 – 3/31/23

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Title V CEMS Semi-Annual Monitoring Report  
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**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1, S-3 TURBINES**  
**S-2, S-4 HEAT RECOVERY STEAM GENERATORS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
NO <sub>x</sub>	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM	X	
	BAAQMD 9-9-301.2	N		0.15 lb/MW-hr or 5 ppmv	BAAQMD 9-9-501	C	CEM	X	
NO <sub>x</sub>	SIP 9-9-301.2	N		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD 9-9-501	C	CEM	X	
	NSPS, 40 CFR 60.44 Da (a)(1)	Y		0.2 lb/MMBtu	40 CFR 60.48 Da(j)	C	CEM	X	
NO <sub>x</sub>	NSPS, 40 CFR 60.44 Da (d)(1)	Y		1.6 lb/MW-hr (rolling 24-hr average)	40 CFR 60.48 Da(k)	C	CEM	X	
NO <sub>x</sub>	NSPS, 40 CFR 60.332 (a)(1)	Y		75 ppmv, @ 15% O <sub>2</sub> , dry 4-hr average	40 CFR 60.334(c) and BAAQMD Condition 16676, Part 35b	C	CEM	X	
		Y		None	40 CFR 75.10	C	CEM	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	Intermittent RCA 08N22/23 RCA 08R16	
NO <sub>x</sub>	BAAQMD condition #16676, part 21a	Y		20 lb/hr, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	Intermittent RCA 08N22/23 RCA 08R16	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
NO <sub>x</sub>	BAAQMD condition #16676, part 21a	Y		0.009 lb/MM BTU, for each turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O <sub>2</sub> , dry, for each turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum load	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O <sub>2</sub> , dry, for each turbine and HRSG combined, 1-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	Intermittent RCA 08N22/23 RCA 08R16	
NO <sub>x</sub>	BAAQMD condition #16676, part 23(a)	Y		240 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations	Intermittent RCA 08N59	
	BAAQMD condition #16676, part 23(a)	Y		20 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations	Intermittent RCA 08N22/23 RCA 08R52/53	
	BAAQMD condition #16676, part 23(a)	Y		600 lb/turbine during steam turbine cold start-up or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35b	C	CEM	Intermittent RCA 08N22/23	

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								Yes	No
	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM	X	
CO	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
CO	BAAQMD condition #16676, part 21c	Y		29.2 lb/hr, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	X	
	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
	BAAQMD condition #16676, part 21c	Y		0.0132 lb/MM BTU, for turbine and HRSG combined, except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	X	
CO	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O <sub>2</sub> , dry, for turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 35b	C	CEM	X	

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								Yes	No
CO	BAAQMD condition #16676, part 21d	Y		6 ppmv, @ 15% O <sub>2</sub> , dry, for turbine and HRSG combined, 3-hr average except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
CO	BAAQMD condition #16676, part 23(b)	Y		2514 lb/turbine during start-up, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
CO	BAAQMD condition #16676, part 23(b)	Y		44.1 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35b	C	CEM	X	
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM	X	
CO <sub>2</sub>		Y		None	40 CFR 75.10	C	fuel flow monitor and CO <sub>2</sub> calculation	X	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		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		N/A	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N		N/A	
SO <sub>2</sub>	NSPS 40 CFR 60.333(b)	Y		0.015% (vol) @ 15% O <sub>2</sub> (dry) or total sulfur content of fuel less than or equal to 0.8% sulfur by weight (8,000 ppmw)	NSPS 40 CFR 60.334 (h) (3) (ii) and BAAQMD Condition 16676, Part 14	P/M	Monthly fuel sulfur analysis	X	

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								Yes	No
SO <sub>2</sub>	NSPS 40 CFR 60.43 Da (b)(2)			0.2 lb/MMBtu, 24 hr average except during startup, shutdown		N		N/A	
		Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measurements, calculations	X	
	BAAQMD condition #16676, part 14	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 14	P/M	Fuel testing	X	
	BAAQMD condition #16676, part 21g	Y		6.2 lb/hr, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
SO <sub>2</sub>	BAAQMD condition #16676, part 21g	Y		0.00277 lb/MM BTU, for turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
SO <sub>2</sub>	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
Opacity	BAAQMD 6-1-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		N/A	
Opacity	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		N/A	
Opacity	NSPS 40 CFR 60.42 Da (b)	Y		20% Opacity (6 min. avg.) with one 6 min. avg. at less than 27% Opacity	40 CFR 60.49 Da (a) (3)	N		N/A	
FP	BAAQMD 6-1-310	N		0.15 grain/dscf		N		N/A	

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								Yes	No
FP	SIP 6-310	Y		0.15 grain/dscf		N		N/A	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A	
PM	NSPS 40 CFR 60.42 Da (a) (1)	Y		0.03 lb/MMBtu of PM		N		N/A	
PM	NSPS 40 CFR 60.42 Da (b)			< 20% opacity, 6 minute average, except one six minute period/hr up to 27% opacity		N		N/A	
PM <sub>10</sub>	BAAQMD condition #16676, part 21h	Y		9.0 lb/hr, for each turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
PM <sub>10</sub>	BAAQMD condition #16676, part 21h	Y		0.0040 lb/MM BTU, for each turbine and HRSG combined	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
	BAAQMD condition #16676, part 32d	Y		465 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
PM <sub>10</sub>	BAAQMD condition #16676, part 33d	Y		69.2 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
POC	BAAQMD condition #16676, part 21f	Y		3.8 lb/hr (as CH <sub>4</sub> ) for each turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	



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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
POC	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU (as CH4) for each turbine, and HRSG combined except during turbine startup, shutdown, steam turbine cold start-up, or combustor tuning period	BAAQMD condition #16676, part 39	P/A	Source test at maximum and minimum load	X	
	BAAQMD condition #16676, part 23(c)	Y		48 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
POC	BAAQMD condition #16676, part 23(c)	Y		8 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 23(c)	Y		96 lb/turbine during steam turbine cold start-up or combustor tuning period	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH4) for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
POC	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
NH <sub>3</sub>	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O <sub>2</sub> , dry, averaged over 3 hrs for each turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 35c	C	Ammonia injection rate monitor	X	
NH <sub>3</sub>	BAAQMD condition #16676, Part 21e	N		10 ppmv, @ 15% O <sub>2</sub> , dry, averaged over 3 hrs for each turbine and HRSG combined except during turbine startup or shutdown	BAAQMD condition #16676, part 21e	C	Ammonia injection rate monitor	X	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Formaldehyde	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 34a	N		3817 lb/yr for turbine, HRSG, and auxiliary boiler combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test	X	
Benzene	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 34a	N		460.9 lb/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test	X	
Specified PAH's	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, Part 34c	N		78.5 lb/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 42	P/every two years on P-1 or P-2	Source test	X	
Heat input limit	BAAQMD condition #16676, part 15	Y		2,225.1 MM BTU/hr, 3-hr average for each Turbine and HRSG, total	BAAQMD condition #16676, part 35a	C	Fuel meter, firing monitor, calculations	X	
Heat Input Limit	BAAQMD condition #16676, part 16	Y		50,738.24 MM BTU/calendar day, for each Turbine and HRSG, total	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations	Intermittent RCA 08N34	
	BAAQMD condition #16676, part 17	Y		34,010,400 MM BTU/yr for S-1, S-3, Turbines and S-2, S-4, HRSGs combined	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations	X	
Heat input limit	BAAQMD condition #16676, part 30	Y		109,157 MM BTU/day, for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, Part 35a	C	Fuel meters	X	

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								Yes	No
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35a	C	Fuel meters	X	
Steam turbine cold start-up or combustor tuning	BAAQMD condition #16676, part 24	Y		30 hours per year per turbine	BAAQMD condition #16676, part 55	P/H	records	X	

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**Table VII - B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5, AUXILIARY BOILER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
NO <sub>x</sub>	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM	X	
	BAAQMD 9-7-301.1	N		30 ppmv @3%O <sub>2</sub> , dry	BAAQMD 1-520.1	C	CEM	X	
	SIP 9-7-301.1	Y		30 ppmv @3%O <sub>2</sub> , dry	BAAQMD 1-520.1	C	CEM	X	
NO <sub>x</sub>	NSPS 40 CFR 60.44b (a)(4)	Y		0.2 lb/MM BTU, 30-day rolling average in NSPS, 24 hour averaging period per BAAQMD Regulation 10, part 4	NSPS 40 CFR 60.48(b) and Condition No. 16676 Part 35b.	C	CEM	X	
	BAAQMD condition #16676, part 28a	Y		3.5 lb/hr except during startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM	X	
	BAAQMD condition #16676, part 28b	Y		9.0 ppmv @ 3% O <sub>2</sub> , 3-hr average	BAAQMD condition #16676, part 35b	C	CEM	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35b	C	CEM	X	
NO <sub>x</sub>	BAAQMD condition #16676, part 33a	Y		175.7 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM	X	
CO	BAAQMD 9-7-301.4	N		400 ppmv @ 3% O <sub>2</sub> , dry	BAAQMD condition #16676, part 35(b)	C	CEM	X	
CO	SIP 9-7-301.2	Y		400 ppmv @ 3% O <sub>2</sub> , dry	BAAQMD condition #16676, part 35(b)	C	CEM	X	
	BAAQMD condition #16676, part 28c			11.8 lb/hr except during startup or shutdown	BAAQMD condition #16676, part 35b	C	CEM	X	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
	BAAQMD condition #16676, part 28d			50 ppmv @ 3% O <sub>2</sub> , 3-hr average	BAAQMD condition #16676, part 35b	C	CEM	X	
	BAAQMD condition #16676, part 32b	Y		6445 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35b	C	CEM	X	
CO	BAAQMD condition #16676, part 33b	Y		506.4 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 35b	C	CEM	X	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		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		N/A	
SO <sub>2</sub>	BAAQMD 9-1-302	Y		300 ppm (dry)		N		N/A	
SO <sub>2</sub>	BAAQMD condition #16676, part 25	Y		Fuel sulfur content of 1 gr/100 scf	BAAQMD condition #16676, part 25	P/M	Fuel testing	X	
	BAAQMD condition #16676, part 28f	Y		0.5 lb/hr	BAAQMD condition #16676, part 40	P/A	Source test at maximum load	X	
SO <sub>2</sub>	BAAQMD condition #16676, part 32e	Y		282.6 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 33e	Y		47.11 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
Opacity	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		N/A	
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		N/A	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours		N		N/A	
Opacity	SIP 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion btu/24 hours		N		N/A	
FP	BAAQMD 6-1-310	N		0.15 grain/dscf		N		N/A	
FP	SIP 6-310	Y		0.15 grain/dscf		N		N/A	
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A	
FP	SIP 6-310.3			0.15 grain/dscf @ 6% O <sub>2</sub>		N		N/A	
PM <sub>10</sub>	BAAQMD condition #16676, part 28g	Y		1.6 lb/hr	BAAQMD condition #16676, part 40	P/A	Source test at maximum load	X	
PM <sub>10</sub>	BAAQMD condition #16676, part 32d	Y		465 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 33d	Y		69.2 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
POC	BAAQMD condition #16676, part 28e	Y		1.7 lb/hr (as CH <sub>4</sub> )	BAAQMD condition #16676, part 40	P/A	Source test	X	
POC	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH <sub>4</sub> ) for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
POC	BAAQMD condition #16676, part 33c	Y		33.9 ton/yr for turbines, HRSGs, and auxiliary boiler combined (includes emissions from commissioning period)	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
NH <sub>3</sub>	BAAQMD condition #16676, Part 28h	N		10 ppmv, @ 3% O <sub>2</sub> , dry, averaged over 3 hrs	BAAQMD condition #16676, part 28h	C	Records of ammonia injection rate	Intermittent RCA 08R46	
Heat input limits	BAAQMD condition #16676, part 26	Y		320 MM BTU/hr, 3-hr average	BAAQMD condition #16676, part 35a	C	fuel meter, firing monitor, calculations	X	
	BAAQMD condition #16676, part 27	Y		480,000 MM BTU/yr	BAAQMD condition #16676, part 35a	C	Fuel meters	X	
Heat input limits	BAAQMD condition #16676, part 30			109,157 MM BTU/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35a	C	Fuel meters	X	
	BAAQMD condition #16676, part 31	Y		34,490,400 MM BTU/yr for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35a	C	Fuel meters	X	

**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6, FIRE PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD Regulation 6-303.1	N		Ringelmann 2.0 for 3 minutes in any hour		N		N/A	
Opacity	SIP Regulation 6-303.1	Y		Ringelmann 2.0 for 3 minutes in any hour		N		N/A	
FP	SIP Regulation 6-310	Y		0.15 gr/dscf		N		N/A	
FP	BAAQMD Regulation 6-1-310	N		0.15 gr/dscf		N		N/A	

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours	None	N	N/A	N/A	
SO <sub>2</sub>	BAAQMD 9-1-304	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition # 19498, Parts 5 and 8	P/E	Vendor Certification	X	
Reliability Related Hours	BAAQMD 9-8-330	N	1/1/12	100 hours until 1/1/12 50 hours after 1/1/12	9-8-502	P/E	Totalizing meter record keeping	X	
Reliability Related Hours	BAAQMD Condition #22851, part 1	N		34 hours per calendar year	BAAQMD Condition #22851, part 3, 4	P/E	Totalizing meter record keeping	X	

**Table VII – D**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-7, NATURAL GAS FIRED EMERGENCY GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-303.1	N		< Ringelmann 2.0, except for no more than 3 minutes in any hour		N		N/A	
Opacity	SIP 6-303.1	Y		< Ringelmann 2.0, except for no more than 3 minutes in any hour		N		N/A	
FP	BAAQMD Regulation 6-1-310	N		0.15 gr/dscf		N		N/A	
FP	SIP Regulation 6-310	Y		0.15 gr/dscf		N		N/A	
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤ 0.05 ppm for 24 hours		N		N/A	



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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Reliability Related Hours	BAAQMD 9-8-330	N	1/1/12	100 hours until 1/1/12 50 hours after 1/1/12	9-8-502	P/E	Totalizing meter record keeping	X	
Reliability Related Hours	BAAQMD Condition #21597, part 1	N		100 hours per calendar year	BAAQMD Condition #21597, part 2 and 3	P/E	Record keeping	X	

**Table VII – E**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-8, COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-1-301	N		> Ringelmann 1.0 for no more than 3 minutes in any hour		N		N/A	
Opacity	SIP 6-301	Y		> Ringelmann 1.0 for no more than 3 minutes in any hour		N		N/A	
FP	BAAQMD Regulation 6-1-310	N		0.15 gr/dscf		N		N/A	
FP	SIP Regulation 6-310	Y		0.15 gr/dscf		N		N/A	

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Subject: Complete with DocuSign: LM Resubmittal of BAAQMD April 2023 Semi Annual Emissions Monitoring Re...	
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<b>Notary Events</b>	<b>Signature</b>	<b>Timestamp</b>
<b>Envelope Summary Events</b>	<b>Status</b>	<b>Timestamps</b>
Envelope Sent	Hashed/Encrypted	6/23/2023 1:43:30 PM
Certified Delivered	Security Checked	6/23/2023 4:33:48 PM
Signing Complete	Security Checked	6/23/2023 4:33:58 PM
Completed	Security Checked	6/23/2023 4:33:58 PM
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