

Los Medanos Energy Center, LLC.

750 E. 3rd Street
Pittsburg, CA 94565

April 29, 2026

TV Tracking #1351 (Semi-Annual)

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

1. ☐ RECEIVED IN
ENFORCEMENT: **04/29/2026**

**Re: Los Medanos Energy Center Facility B1866
Title V Semi-Annual Monitoring Report
Reporting Period: October 1, 2025 through March 31, 2026**

Attn: Title V Reports

During the reporting period LMEC maintained compliance with Title V permit conditions.

As previously reported to the District, on November 16, 2025, LMEC experienced a failure of the communication link to the Plant Distributed Control System (DCS) resulting in an inaccurate NO_x lbs. calculation during the shutdown of Unit 2. The inaccurate NO_x calculation resulted in an indicated excess of NO_x 9 lbs. above the limit of 20 lbs.

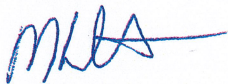
LMEC submitted the RCA Notification for this event to the District on November 19, 2025. The 10-and 30-Day reports were submitted to the District on November 25, 2025. A Notice of Violation has not been issued for this event.

All previously submitted CEMS Monitoring documentation will not be reproduced in this report.

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,



Michael White
Plant Manager and Authorized Signatory

cc: John Heiser - California Energy Commission via email attachment
EPA Region IX via email attachment
EHSWalnutCreek@calpine.com via email attachment

Attachments:

Title V CEMS Semi-Annual Monitoring Report for the reporting period 10/1/25 – 3/31/26

DS
JG

RCA Form ID #202614

LMEC 10- Day and 30-Day Report for RCA#202614

LMEC Semi-Annual Monitoring Report -
Reporting Period 10/01/2025 - 3/31/2026

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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 _x	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 _x	SIP 9-9-301.2	N		9 ppmv @ 15% O ₂ , 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 _x	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 _x	NSPS, 40 CFR 60.332 (a)(1)	Y		75 ppmv, @ 15% O ₂ , 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 _x	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	X	
NO _x	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 _x	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	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
NO _x	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 _x	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O ₂ , 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 _x	BAAQMD condition #16676, part 21b	Y		2.5 ppmv, @ 15% O ₂ , 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	X	
NO _x	BAAQMD condition #16676, part 23(a)	Y		240 lb/turbine during start-up	BAAQMD condition #16676, part 36	P/D	Records, calculations	X	
	BAAQMD condition #16676, part 23(a)	Y		20 lb/turbine during shutdown	BAAQMD condition #16676, part 36	P/D	Records, calculations	X Note: See attached documentation regarding inaccurate NO _x shutdown exceedance on 11/16/2025.	
	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	

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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 _x	BAAQMD condition #16676, part 32a	Y		1342 lb/day for turbines, HRSGs, and auxiliary boiler combined	BAAQMD condition #16676, part 35b	C	CEM	X	
	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 ₂ , 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 ₂ , 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 ₂		Y		None	40 CFR 75.10	C	fuel flow monitor and CO ₂ calculation	X	
SO ₂	BAAQMD 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		N/A	
	BAAQMD 9-1-302	Y		300 ppm (dry)		N		N/A	
SO ₂	NSPS 40 CFR 60.333(b)	Y		0.015% (vol) 15% O ₂ (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 ₂	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 ₂	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 ₂	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	
FP	SIP 6-310	Y		0.15 grain/dscf		N		N/A	

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								Yes	No
FP	BAAQMD 6-1-310.3	N		0.15 grain/dscf @ 6% O ₂		N		N/A	
	SIP 6-310.3	Y		0.15 grain/dscf @ 6% O ₂		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 ₁₀	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 ₁₀	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 ₁₀	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 ₄) 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	
POC	BAAQMD condition #16676, part 21f	Y		0.0017 lb/MM BTU (as CH ₄) 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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								Yes	No
	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 CH ₄) 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 ₃	BAAQMD condition #16676, Part 21e	N		10 ppmv, 15% O ₂ , 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 ₃	BAAQMD condition #16676, Part 21e	N		10 ppmv, 15% O ₂ , 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	
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	

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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
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	X	
	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	
	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 _x	BAAQMD 9-3-303	N		125 ppm	BAAQMD 1-520.1	C	CEM	X	
	BAAQMD 9-7-301.1	N		30 ppmv @3%O ₂ , dry	BAAQMD 1-520.1	C	CEM	X	
	SIP 9-7-301.1	Y		30 ppmv @3%O ₂ , dry	BAAQMD 1-520.1	C	CEM	X	
NO _x	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 ₂ , 3-hr average	BAAQMD condition #16676, part 35b	C	CEM	X	
NO _x	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 _x	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 ₂ , dry	BAAQMD condition #16676, part 35(b)	C	CEM	X	
CO	SIP 9-7-301.2	Y		400 ppmv @ 3% O ₂ , 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 ₂ , 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 ₂	BAAQMD 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		N/A	
SO ₂	BAAQMD 9-1-302	Y		300 ppm (dry)		N		N/A	
SO ₂	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 ₂	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 ₂		N		N/A	
FP	SIP 6-310.3			0.15 grain/dscf @ 6% O ₂		N		N/A	
PM ₁₀	BAAQMD condition #16676, part 28g	Y		1.6 lb/hr	BAAQMD condition #16676, part 40	P/A	Source test at maximum load	X	
PM ₁₀	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 ₄)	BAAQMD condition #16676, part 40	P/A	Source test	X	
POC	BAAQMD condition #16676, part 32c	Y		271.3 lb/day (as CH ₄) 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 ₃	BAAQMD condition #16676, Part 28h	N		10 ppmv, 3% O ₂ , dry, averaged over 3 hrs	BAAQMD condition #16676, part 28h	C	Records of ammonia injection rate	X	
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	

Los Medanos Energy Center
Title V CEMS Semi-Annual Monitoring Report
10/1/25-3/31/26

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 ₂	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 ₂	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 ₂	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	

Los Medanos Energy Center
Title V CEMS Semi-Annual Monitoring Report
10/1/25-3/31/26

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	

LMEC RCA Form and 10 and 30-Day Reports
Reporting Period 10/01/2025 - 3/31/2026



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable
Compliance
Activity (RCA)

[See back of form for instructions](#) →

1. ☐ **BREAKDOWN RELIEF:** *District Use Only* BREAKDOWN REFERENCE #:
2. ☒ **MONITOR EXCESS EMISSION or EXCURSION:** *District Use Only* REFERENCE #:
3. ☐ **MONITOR IS INOPERATIVE:** *District Use Only* REFERENCE #:
4. ☐ **PRESSURE RELIEF DEVICE (PRD):** *District Use Only* PRD REFERENCE #:

SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Los Medanos Energy Center, LLC	Site #	B1866
Address	750 E. 3rd Street	Source #	S-3
Reported by	Diana West	Phone #	925-252-2069
Indicated Excess	29 lbs NOx	Fax #	
Allowable Limit	20 lbs	Averaging Time	Shutdown
Start Time/Date	00:16 AM / 11/16/2025	Clear Time	00:26 AM / 11/16/2025
Monitor/device type(s)	☒ ▶ CEM ☐ ▶ GLM ☐ ▶ Parametric ☐ ▶ PRD ☐ ▶ Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation			
☒ ▶ NO _x	☐ ▶ SO ₂	☐ ▶ CO	☐ ▶ CO ₂
☐ ▶ O ₂	☐ ▶ H ₂ O	☐ ▶ Opacity	☐ ▶ Lead
☐ ▶ Hydrocarbon Breakthrough (VOC)	☐ ▶ Temperature	☐ ▶ Wind Speed	☐ ▶ H ₂ S
☐ ▶ Wind Direction	☐ ▶ Steam	☐ ▶ Other (describe)	☐ ▶ TRS
Unit(s) of Measurement			
☐ ▶ ppm	☐ ▶ ppb	☐ ▶ min/hr > 20%	☐ ▶ inches H ₂ O
☐ ▶ psig	☐ ▶ pH	☐ ▶ °Fahrenheit	☐ ▶ mmHg
☐ ▶ Other (describe) lbs.	☒		

Event Description: During the shutdown of Unit 2 on 11/16/2025 the facility experienced an inaccurate fuel flow rate, resulting in an inaccurate calculation of NOx lbs

DS
JG

Initial
LG

Initial
MW

District Use Only

Received by

Date

Time

General Instructions

Los Medanos Energy Center, LLC.

750 E. 3rd Street
Pittsburg, CA 94565

Via email attachment

November 25, 2025

Director, Enforcement and Compliance Division
Bay Area Air District
375 Beale Street, Suite 600
San Francisco, CA 94105
compliance@baaqmd.gov

**RE: Los Medanos Energy Center, Site # B1866
Major Facility Review Permit (Title V Permit)
10-Day Title V Non-Compliance and 30-Day Follow-Up Report RCA ID #202614**

To Whom It May Concern:

In accordance with the Major Facility Review Permit (Title V Permit) for the Los Medanos Energy Center (the "Facility"), this letter is to advise you of indicated permit deviation as required by Section I. F. of the Title V Permit, which requires the reporting of all non-compliance instances of the Title V Permit in writing within 10 days. In addition, this letter will also serve to satisfy the follow-up report of the probable cause and corrective actions required within 30 days of discovery of the incidents.

Reportable Compliance Activity (RCA) ID No.202614 was submitted to the District on November 19, 2025.

As described below, there were no excess emissions or permit deviations associated with this event.

Event

On November 16, 2025 at 00:15, Unit 2 was put into a normal shutdown in preparation for a scheduled outage. During the shutdown, plant operations noticed that the NO_x lbs. value for the shutdown was abnormally high, so they initiated an emergency shutdown of the unit. After the emergency shutdown was complete, operations noted that the data acquisition and handling system (DAHS) indicated a NO_x emissions of 29 lbs. for the shutdown, exceeding the limit of 20 lbs. per shutdown as defined in LMEC's Title V Permit Condition 23(a).

Corrective Action

As described below, there was no excess emission event thus no corrective action was necessary.

Compliance Status

Unit 2 was in compliance with all permit conditions before and during the shutdown event.

Investigation

Our investigation determined that the indicated emission exceedance was the result of a failure of the communication link to the Plant distributed control system (DCS). Attachment 1 to this report is a graph that shows both the DCS fuel flow indication and the actual data from the gas turbine Controller. As shown in the graph, the DCS indication remained at the Normal Operations flow rate before and during the shutdown event rather than decreasing as the megawatts were reduced. The data from the Gas Turbine Controller shows the expected decrease in fuel flow. The inaccurate high fuel flow indication during the shutdown resulted in an inaccurate NOX lbs. calculation for this shutdown event.

Attachment 2 is CeDAR Report that also shows the DCS fuel flow not tracking the megawatt decrease in the shutdown and also indicates the correct NO_x calculation based on the direct fuel flow reading from the Gas Turbine Controller.

Preventative Actions

The following preventative and corrective actions were identified during the investigation:

- The facility has substituted the incorrect fuel flow data with the correct fuel flow numbers for the shutdown. Attachment 3 and Attachment 4 are emissions reports completed after the data substitution showing no excess emission event.
- LMEC will ensure that facility and its equipment will be operated and maintained in accordance with the manufacturer's specifications, instructions and recommended procedures, and in full compliance with all relevant Federal, State, and local regulatory requirements.

If you have any questions or require additional information, please contact Diana West, EHS Specialist, at 925-252-2069.

As the 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,



Michael White
Responsible Official and Plant Manager

cc: John Heiser - California Energy Commission
EHSWalnutCreek@calpine.com
CICS INC104290

Attachments:

Attachment 1 – Graph of Fuel Flow and Megawatts during Shutdown Event
Attachment 2 – CeDAR 1 Minute Report of Unit 2 Shutdown Event
Attachment 3 – CeDAR Shutdown Event Emissions Report
Attachment 4 – CeDAR Unit 2 - 1 Minute Emissions Report

DS
JG

Initial
LG

The screenshot displays a power plant monitoring interface. On the left, a graph plots MW (left y-axis, 0 to 150) and #/SEC (right y-axis, 0 to 20) against time. The x-axis shows the transition from Saturday, Nov 15, 2025, to Sunday, Nov 16, 2025. Key data points and annotations include:

- 11/15/2025 11:50:45 PM:** 19.619 OK, 19.614 OK, 156.531 OK, 156.132 OK.
- 11/16/2025 12:26:04 AM:** 19.619 OK, 1.162 OK, 156.531 OK, -20.0 OK.
- Annotations:**
 - "Communication Link to Plant DCS system malfunctioned results in state data" points to a vertical line at approximately 11:50 PM on Nov 15.
 - "Data polled directly from the Gas Turbine Controller(T2:) shows correct fuel flow for shutdown period" points to a data point at 12:26 AM on Nov 16.

On the right side, there is a summary of data sources and a process flow diagram:

- Data Sources:**
 - 2FQG Data Source: DCS
 - 2DWATT Data Source: DCS
 - T2:FQG Data Source: MKVe
 - T2:DWATT Data Source: MKVe
- Real-time Data (11/16/2025 1:30:00 AM):**
 - 0.613 #/SEC
 - 0.644 #/SEC
 - 20.0 MW
 - 20.0 MW
- Process Flow Diagram:** Shows the flow from "Combustion Turbine 2" through "DB Fuel Flow Meter Component 059" to "Sample Conditioning System" and "Modbus TCP/IP Communication". It also includes "Plant DCS Alarm Display Information" and "CEMS 4B" for monitoring.

Attachment 2

CeDAR 1-Minute Data

Data for 11/15/2025 11:30 PM thru 11/16/2025 12:30 AM

Timestamp	Process C	NOx ppm	NOx lb/mmBtu	NOx lbs 1-175-02 % 1-CT	Nat Gas	Nat Gas Gt	CT Heat In	DB Heat In	Gross Megawatts	1-40CPR75 Megawatts	1-Min	Verification	CheckSum	Unit 2 Fuel Flow	CT Heat Input Calculated	(CT Only) NOx Lbs	(CTDB) NOx Lbs
11/15/2025 23:30	8	1.8	0.0067	0.206469	12.8	1616.9	1049	1606.1	144.8	156.3	268.9	0.206567167	-0.000000	19.62843808	1602.517032	0.188097735	0.205167
11/16/2025 0:00	8	1.5	0.0055	0.163999	12.8	1617.9	1049	1607.2	93.2	125.3	233.4	0.194412	-0.000121	16.72001274	1441.729914	0.132158575	0.140702
11/16/2025 0:10	8	1.5	0.0064	0.188688	13.2	1617.9	1049	1607.2	32.5	125.1	227.9	0.196673	-0.000007	16.70746767	1440.648172	0.129658336	0.132593
11/16/2025 0:11	8	1.2	0.0045	0.127166	13.7	1617.3	1049	1606.6	0	125.1	225	0.1272376	-0.000071	16.73651366	1443.162752	0.108236456	0.108236
11/16/2025 0:12	8	1.1	0.0042	0.118833	13.8	1617.6	1049	1606.9	0	125.2	225.1	0.118783	0.000050	16.70349419	1440.308557	0.100621380	0.100621
11/16/2025 0:13	8	1.2	0.0043	0.121666	13.8	1617.9	1049	1607.2	0	123.7	223.7	0.121632667	0.000034	16.66704672	1438.887241	0.103120252	0.10312
11/16/2025 0:14	8	1.2	0.0044	0.124333	13.9	1617.2	1049	1606.4	0	112.6	212.6	0.124402667	-0.000079	16.72265112	1441.849794	0.106743912	0.106743
11/16/2025 0:15	8	1.1	0.0041	0.116	14	1618.1	1049	1607.4	0	101.3	201.2	0.116889	0.000011	16.12684824	1390.691268	0.096023737	0.096024
11/16/2025 0:16	4	7.3	0.0269	0.769997	14.1	1617.7	1049.3	1607.3	0	87.2	187.3	0.769956167	0.000041	15.037777113	1297.044752	0.581808397	0.581808
11/16/2025 0:17	4	34.3	0.1263	3.574652	14.3	1616.1	1049.5	1606.2	0	73.4	173.6	3.574711	-0.000059	14.86280502	1213.156839	2.553695147	2.553695
11/16/2025 0:18	4	34.3	0.1263	3.572819	14.5	1615.7	1049.5	1607.8	0	60.3	160.3	3.573699	-0.000050	12.886862	1111.744036	2.340221197	2.340221
11/16/2025 0:19	4	33.9	0.1247	3.527153	14.8	1617.4	1049.3	1607.1	0	46.6	146.6	3.5271396	0.000013	11.71300484	1010.276451	2.096680208	2.096680
11/16/2025 0:20	4	30.4	0.1119	3.164821	15.1	1617.2	1049.3	1606.9	0	31.2	131.1	3.1647185	0.000102	10.4664179	902.7542912	1.683636753	1.683637
11/16/2025 0:21	4	32.5	0.1197	3.386653	15.9	1617.8	1049.3	1607.6	0	10.2	118.4	3.386712	-0.000059	9.156790306	789.7966806	1.575642401	1.575642
11/16/2025 0:22	4	35.3	0.1302	3.684819	16.8	1618.3	1049.3	1608.1	0	4	104	3.684877	-0.000058	7.80633247	673.2291257	1.460907295	1.460907
11/16/2025 0:23	4	45	0.1657	4.889315	18.1	1617.9	1049.5	1608	0	0.1	100.1	4.88931	0.000005	6.171040677	532.3689169	1.470225492	1.470225
11/16/2025 0:24	4	18.9	0.0732	2.071992	19.6	1618.3	1049.5	1608.4	0	0.1	100.1	2.072048	-0.000056	2.682038575	248.6303839	0.303329068	0.303329
11/16/2025 0:25	4	4.1	0.015	0.0795	19.6	268.6	1049.5	261.9	0	0.2	16.8	0.079476	0.000025	1.228388361	105.9792234	0.026484806	0.026485
11/16/2025 0:26	4	2.8 <13>	0.0093 <13>	0 <13>	19.8 <13>	0.9 <13>	1049.6	0.9 <13>	0	0.2 <13>	0.2 <13>			1.124008442	96.97629749	#VALUE!	
11/16/2025 0:27	13	1.6 <13>	0.0056 <13>	0.0001695	20.1 <13>	0.9 <13>	1049.6	0.9 <13>	0	0.2 <13>	0.2 <13>	26.58481617		0.717912761	61.93944026	#VALUE!	
11/16/2025 0:28	13	1.9 <13>	0.0035 <13>	0 <13>	20.6 <13>	0.9 <13>	1049.4	0.9 <13>	0	0.2 <13>	0.2 <13>			0.721007337	62.19458315	#VALUE!	
11/16/2025 0:29	13	0.7 <13>	0.0026 <13>	0 <13>	20.8 <13>	0.9 <13>	1049.1	0.9 <13>	0	0.2 <13>	0.2 <13>			0.693976662	59.84672753	#VALUE!	
11/16/2025 0:30	13	0.6 <13>	0.0021 <13>	0 <13>	20.9 <13>	0.9 <13>	1049.4	0.9 <13>	0	0.2 <13>	0.2 <13>			0.691425596	59.6428412	#VALUE!	

Shutdown Event - No Duct Burners in Service

Actual NOx/Lbs 14.09534957
CEMS NOx/Lbs 26.58471931

Average (all)	--	5.9	0.0217	0.9062407	14.1	1462.7	1049.1	1534.4	94.7	112.3	211						
Total (all)	--	--	--	35.98089	--	--	--	--	--	--	--						
Minimum (all)	--	0.6	0.0021	0	12.7	0	1048.5	0	0	0.1	0.2						
Maximum (all)	--	45	0.1657	4.889315	29.8	1618.3	1049.6	1608.4	145.4	156.3	268.9						
Average (valid values only)	--	6.2	0.0225	0.9065666	14.5	1460.3	1049.1	1471.4	140.6	122.1	220.8						

Attachment 3

Turbine 2 Events

Los Medanos
for 11/16/2025

Limits					
Shutdown Duration (Hours)	0.5	NOx lbs/Shutdown Event	20	CO lbs/Shutdown Event	44.1
POC lbs/Shutdown Event	8				
Parameter	Start	End	Duration	Value	
Shutdown	11/16/2025 12:16 AM	12:26 AM	0.18		
NOx lbs/Shutdown	11/16/2025 12:16 AM	12:26 AM	0.18	14	
CO lbs/Shutdown	11/16/2025 12:16 AM	12:26 AM	0.18	7.6	
POC lbs/Shutdown	11/16/2025 12:16 AM	12:26 AM	0.18	0.0	
Heat Input mmBtu/Shutdown	11/16/2025 12:16 AM	12:26 AM	0.18	131.41	

Attachment 4

CeDAR 1-Minute Data

Los Medanos

Data for 11/16/2025 12:00 AM thru 11/16/2025 12:26 AM

Timestamp	(Turbine 2) 60-NOx ppm 1-Min	(Turbine 2) NOx lb/hr 1-Min	(Turbine 2) NOx lbs 1-Min	(Turbine 2) NOx lbs/Shutdown Event Total (For S/D Event Display Only)	(Turbine 2) BAAQMD-CO ppm 1-Min	(Turbine 2) CO lb/hr 1-Min	(Turbine 2) CO lbs 1-Min	(Turbine 2) Shutdown CO lbs 1-Min (For Event PID)
11/16 0:00	2.00	9.94	0.165666004	-- <60>	0.00	0.00	0	0 <60>
11/16 0:01	2.05	10.13	0.168832658	-- <60>	0.00	0.00	0	0 <60>
11/16 0:02	1.98	9.76	0.162666016	-- <60>	0.00	0.00	0	0 <60>
11/16 0:03	1.96	9.76	0.162666016	-- <60>	0.00	0.00	0	0 <60>
11/16 0:04	1.97	9.76	0.162666016	-- <60>	0.00	0.00	0	0 <60>
11/16 0:05	1.99	9.94	0.165666004	-- <60>	0.00	0.00	0	0 <60>
11/16 0:06	1.99	9.94	0.165666004	-- <60>	0.00	0.00	0	0 <60>
11/16 0:07	2.00	9.94	0.165666004	-- <60>	0.00	0.00	0	0 <60>
11/16 0:08	2.03	10.13	0.168832658	-- <60>	0.00	0.00	0	0 <60>
11/16 0:09	2.06	9.84	0.163999344	-- <60>	0.00	0.00	0	0 <60>
11/16 0:10	1.92	9.34	0.155666044	-- <60>	0.00	0.00	0	0 <60>
11/16 0:11	1.50	7.63	0.127166158	-- <60>	0.25	0.85	0.01416661	0 <60>
11/16 0:12	1.36	7.13	0.118832858	-- <60>	0.00	0.00	0	0 <60>
11/16 0:13	1.40	7.30	0.12166618	-- <60>	0.00	0.00	0	0 <60>
11/16 0:14	1.43	7.46	0.124332836	-- <60>	0.00	0.00	0	0 <60>
11/16 0:15	1.31	6.96	0.115999536	-- <60>	0.00	0.00	0	0 <60>
11/16 0:16	8.35	34.89	0.581497674	0.6	1.71	4.28	0.071333048	0.071333048
11/16 0:17	38.17	153.22	2.553656452	3.1	7.13	17.35	0.28916551	0.28916551
11/16 0:18	37.13	140.41	2.340157306	5.5	11.73	26.90	0.44833154	0.44833154
11/16 0:19	35.29	125.98	2.099658268	7.6	19.94	43.24	0.720663784	0.720663784
11/16 0:20	30.07	101.01	1.683493266	9.3	24.86	50.73	0.845496618	0.845496618
11/16 0:21	27.69	94.54	1.575660364	10.8	43.56	90.28	1.504660648	1.504660648
11/16 0:22	24.80	87.65	1.46082749	12.3	56.41	121.11	2.018491926	2.018491926
11/16 0:23	21.42	88.22	1.470327452	13.8	22.72	56.81	0.946829546	0.946829546
11/16 0:24	6.40	18.20	0.30333212	14.1	18.77	32.42	0.540331172	0.540331172
11/16 0:25	1.31	1.59	0.026499894	14.1	13.80	10.17	0.169499322	0.169499322
11/16 0:26	0.81 <13>	0.00 <13>	0 <13>	-- <60>	11.05 <13>	0.00 <13>	0 <13>	0 <13>

Timestamp	(Turbine 2) 60-NOx ppm 1-Min	(Turbine 2) NOx lb/hr 1-Min	(Turbine 2) NOx lbs 1-Min	(Turbine 2) NOx lbs/Shutdown Event Total (For S/D Event Display Only)	(Turbine 2) BAAQMD-CO ppm 1-Min	(Turbine 2) CO lb/hr 1-Min	(Turbine 2) CO lbs 1-Min	(Turbine 2) Shutdown CO lbs 1-Min (For Event PID)
Average (all)	9.64	36.69	#####	9.1	8.59	16.82	0.280332212	#####
Total (all)	--	--	16.511100622	91.2	--	--	7.568969724	7.554803114
Minimum (all)	0.81	0.00	0	0.6	0.00	0.00	0	0
Maximum (all)	38.17	153.22	2.553656452	14.1	56.41	121.11	2.018491926	2.018491926
Average (valid values only)	9.98	38.10	#####	9.1	8.50	17.47	#####	0.7554803114
Total (valid values only)	--	--	16.511100622	91.2	--	--	7.568969724	7.554803114
Count (valid values only)	26	26	26	10	26	26	26	10

<13> = Down

<45> = Substituted Data

<60> = N/A