

DOCKETED	
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Project Title:	Roseville Energy Park Temporary Power Generators
TN #:	266953
Document Title:	RPEAK (REPR-20-03 AND 04) Quarterly CEMS Report - Third Quarter 2025 - Part 2s
Description:	N/A
Filer:	Roseville Electric Compliance
Organization:	Roseville Electric
Submitter Role:	Public Agency
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To: Bruce Springsteen, Manager, Compliance and Enforcement, PCAPCD
Heather Selvester, Air Quality Specialist, PCAPCD

From: Tony Johnson, Power Plant Operations Supervisor

Date: July 30, 2025

Subject: Non-Compliance Event Notifications #2025-013, #2025-014

Bruce,

This memo provides supplemental information regarding Non-Compliance Event Notifications #2025-013 and #2025-014, submitted on July 29, 2025, for RPEAK Combustion Turbines CT5 and CT6.

The event occurred when both combustion turbines were dispatched to run at 19:00. Both units synchronized normally; however, the ammonia forwarding pump controllers were inadvertently left in "Manual" mode instead of "Auto" following a recent reboot of the Programmable Logic Controller (PLC). This oversight by the Control Room Operator (CRO) resulted in a delay in automatic ammonia injection.

Approximately 10 minutes after startup, the CRO identified the error and switched both units' pump controllers to "Auto," enabling ammonia flow around 19:12. The units did not achieve compliance with NOx limits until approximately 19:35. After each unit received three excess emissions alarms, the decision was made to shut them down at approximately 19:50.

This delay resulted in the following permit condition violations:

- Condition 35.a.i – Startup NOx Emissions (limit: 3.1 lbs)
 - CT5: 4.77 lbs
 - CT6: 4.48 lbs
- Condition 34.a – Hourly NOx Emissions (limit: 2.71 lbs/hr)
 - CT5: 5.31 lbs/hr
 - CT6: 3.65 lbs/hr
- Condition 34.b.iii – 1-Hour NOx Concentration (limit: 2.5 ppmvdc)
 - CT5: 5.3 ppmvdc
 - CT6: 3.8 ppmvdc

Both units were tested the following day (July 29) and operated without alarms or excess emissions. In response to the incident, the startup procedure was revised to include a verification step ensuring ammonia pump controllers are set to "Auto" before unit startup. Please see the attached operational checklists (original and updated versions) for reference.

Tony Johnson
(916) 295-9804

ajohnson@roseville.ca.us

Figure 1: RPEAK CRO Combustion Turbine Operation Checklist

CT5	CT6	Procedure	Date	CRO Review
Start-Up				
1.		Unit Commitment received: Time – CT5 _____ CT6 _____		
2.		Start Demin pumps in manual from DCS. Instruct BOP operator to purge Demin lines and verify water injection valve line-up at each unit.		
3.		Verify no active Alarms (Inverted Triangle Icon - Alarms) Verify Database Recorder is Enabled (Hand with Pencil Icon, then select 4)		
4.		Verify AVR and Synchronizer are in Auto (Open Book Icon – Unit Information)		
5.		Verify Start Permissives (Sad Face Icon) Ensure NH3 Pumps are in Auto		
6.		On AFCU Control Panel – Verify blowers in Lead/Lag and panel setpoints below: PID Control Tab: NOx – 2.2ppm, Heater – 650, Temp Air – 825		
7.		CT6 PCM RPEAK Demin Skid MCC Breaker – Verify HOA is in HAND		
8.		Select Run Tab and Start Permissives should all be green.		
9.		Select Peak Load Start on the Control Tab (Must be within 30 seconds of selecting the Run Tab) 10 minutes from Start to Breaker Closed		
10.		Verify DAHS Start-Up bit is active and SUSL Event is accumulating data.		
11.		Verify TA Fan, Ammonia Pump / Blower starts in Auto from BOP HMI screen (1500 RPM NGG HP Rotor Speed)		
12.		Verify combustion turbine Flame On (Eye Glass Icon – Turbine Overview)		
13.		CTG-Breaker Closed Time (Open Book Icon – Unit Information)		
14.		Adjust Voltage as needed to maintain slightly positive MVARs (Control Tab)		
15.		Select MW and input load of 28MW (Control Tab)		
16.		Verify Water Injection was enabled in auto at 4MW (Tornado Icon – Water Injection) Verify NH ₃ injection. On TA fans page, permissive TE403 (218°F), TE 202A/B average > 450°F.		
17.		Verify DAHS Start-Up bit is clear ~10 minutes after CTG Breaker closed.		
18.		Initiate CEMS Calibration after Start-Up bit has cleared and emissions are stable.		
19.		Email Start-Up notification with Generation Real-Time Update templates.		
Shutdown				
1.		Select Normal Stop and confirm unit is unloading (Run Tab)		
2.		Verify DAHS Shut-Down bit is active and SUSL Event is accumulating data.		
3.		CTG-Breaker Open Time (Stop button to breaker open at 27 MW is 2 minutes)		
4.		Flame Off (5 minutes after Breaker Open)		
5.		Verify TA Fan, Ammonia Pump & Blower stops in AUTO (1500 RPM NGG HP Rotor Speed), DAHS Shut-Down bit is cleared.		
6.		Email Shut-Down notification with Generation Real-Time Update templates.		

Figure 1: RPEAK CRO Combustion Turbine Operation Checklist

<u>CT5</u>	<u>CT6</u>	<u>Procedure</u>	<u>Date</u>	<u>CRO Review</u>
Start-Up				
1.		Unit Commitment received: Time – CT5 _____ CT6 _____		
2.		Start Demin pumps in manual from DCS. Instruct BOP operator to purge Demin lines and verify water injection valve line-up at each unit.		
3.		Verify no active Alarms (Inverted Triangle Icon - Alarms) Verify Database Recorder is Enabled (Hand with Pencil Icon, then select 4)		
4.		Verify AVR and Synchronizer are in Auto (Open Book Icon – Unit Information)		
5.		Verify Start Permissives (Sad Face Icon)		
6.		On AFCU Control Panel – Verify blowers in Lead/Lag and panel setpoints below: PID Control Tab: NOx – 2.0, Heater – 650, Temp Air – 825		
7.		CT6 PCM RPEAK Demin Skid MCC Breaker – Verify HOA is in HAND		
8.		Select Run Tab and Start Permissives should all be green.		
9.		Select Min Load Start on the Control Tab (Must be within 30 seconds of selecting the Run Tab) <u>10 minutes from Start to Breaker Closed</u>		
10.		Verify DAHS Start-Up bit is active and SUSL Event is accumulating data.		
11.		Verify TA Fan, Ammonia Pump / Blower starts in Auto from BOP HMI screen (1500 RPM NGG HP Rotor Speed)		
12.		Verify combustion turbine Flame On (Eye Glass Icon – Turbine Overview)		
13.		CTG-Breaker Closed Time (Open Book Icon – Unit Information)		
14.		Adjust Voltage as needed to maintain slightly positive MVARs (Control Tab)		
15.		Select MW an input load of 30MW (Control Tab)		
16.		Verify Water Injection was enabled in auto at 4MW (Tornado Icon – Water Injection) Verify NH ₃ injection. On TA fans page, permissive TE403 (218°F), TE 202A/B average > 450°F.		
17.		Verify DAHS Start-Up bit is clear 30 minutes after CTG-Start Initiate.		
18.		Verify CEMS Auto Calibration starts 30 minutes after CTG-Start Initiate.		
19.		Email Start-Up notification with <u>RPEAK DWR Real-Time Update & Generation Real-Time Update</u> templates.		
Shutdown				
1.		Select Normal Stop and confirm unit is unloading (Run Tab)		
2.		Verify DAHS Shut-Down bit is active and SUSL Event is accumulating data.		
3.		CTG-Breaker Open Time (Stop button to breaker open at 27 MW is 2 minutes)		
4.		Flame Off (5 minutes after Breaker Open)		
5.		Verify TA Fan, Ammonia Pump & Blower stops in AUTO (1500 RPM NGG HP Rotor Speed), DAHS Shut-Down bit is cleared.		
6.		Email Shut-Down notification with <u>RPEAK DWR Real-Time Update & Generation Real-Time Update</u> templates.		

Startup/Shutdown Event Report

CT6 - NOx Lbs Per Startup/Shutdown



From: 07/28/2025 00:00 To: 07/28/2025 23:59 Facility Name: ROSEVILLE ENERGY

Generated: 07/29/2025 07:46 Location: Roseville, CA

Tag Name: CT6_NOx_LbPerHr_1M SI = SampleInvalid, * = Excess Emission

Total Operating Time: 1.07 Hours
Non-Operating Time: 22.93 Hours Report Time: 24.00 Hours

Unit Operation and Excess Events

Event Period				Reason	Action
Begin/End	Duration in Minute(s)	Lb/Event	Limit	Code - Description	Code - Description
07/28/2025 17:54 07/28/2025 18:23 Startup	30	4.48 *	3.10		
07/28/2025 18:50 07/28/2025 18:57 Shutdown	8	0.13	3.40		

Total Duration of Excess Emission	30 Minute(s)
Time of Excess Emission as a percentage of operating time	46.88 %
Time in compliance as percentage of operating time	53.13 %

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NOx LbPerHr 1-Hour Block Excess Emissions

CT6

From: 07/28/2025 00:00 To: 07/28/2025 19:44

Generated: 07/28/2025 19:45

Facility Name: ROSEVILLE ENERGY

Location: Roseville, CA



Tag Name: CT6_NOX_Norm_LbPerHr_1H

Total Operating Time: 2.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 18.00 Hour(s) Report Time: 20.00 Hour(s)

Inc No	Start Time	End Time	Duration in Hour(s)	Tag Value	Limit	Reason Code	Action Code
1	07/28/25 18:00	07/28/25 18:59	1	3.65	2.71	2 - Control equipment problems	19 - SHUT DOWN UNIT FOR REPAIR

Total Operating Time:	2.00 Hour(s)
Total Duration (Online only):	1.00 Hour(s)
Time in exceedance as a percentage of operating time:	50.00 %
Time in compliance as a percentage of operating time:	50.00 %

Report Code	Type	Text	Duration	Duration Percent
2	Reason	Control equipment problems	1	100.00
19	Action	SHUT DOWN UNIT FOR REPAIR	1	100.00

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NOx Ppmvdc 1-Hour Block Excess Emissions

CT6

From: 07/28/2025 00:00 To: 07/28/2025 19:46 Facility Name: ROSEVILLE ENERGY
Generated: 07/28/2025 19:47 Location: Roseville, CA



Tag Name: CT6_NOX_Norm_Ppmvdc_1H

Total Operating Time: 2.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 18.00 Hour(s) Report Time: 20.00 Hour(s)

Inc No	Start Time	End Time	Duration in Hour(s)	Tag Value	Limit	Reason Code	Action Code
1	07/28/25 18:00	07/28/25 18:59	1	3.8	2.5	2 - Control equipment problems	19 - SHUT DOWN UNIT FOR REPAIR

Total Operating Time:	2.00 Hour(s)
Total Duration (Online only):	1.00 Hour(s)
Time in exceedance as a percentage of operating time:	50.00 %
Time in compliance as a percentage of operating time:	50.00 %

Report Code	Type	Text	Duration	Duration Percent
2	Reason	Control equipment problems	1	100.00
19	Action	SHUT DOWN UNIT FOR REPAIR	1	100.00

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Sample Spreadsheet Listing

	CT6_NH3Slip_Ppmvdc_1M		CT6_NOx_Ppmvdc_1M		CT6_ExhaustFlow_LbPerHr_1M		CT6_NH3Inj_LbPerHr_1M		CT6_Load_MWe_1M		CT6_NOx_SUSD_Lbs_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
07/28/25 17:52	0		-0.3		0		-0.1		0		0	
07/28/25 17:53	0		-0.3		0		-0.1		0		0	
07/28/25 17:54	0		-0.3		0		0		0		0	
07/28/25 17:55	0		-0.3		0		-0.1		0		0	
07/28/25 17:56	0		8.52		240410.1		-0.1		0		0.02	
07/28/25 17:57	0		15.9		251259.6		0		0		0.06	
07/28/25 17:58	0		12.98		231706.6		0.1		0		0.09	
07/28/25 17:59	0		12.05		237937.5		-0.1		0		0.12	
07/28/25 18:00	0		9.34		238508.1		0		0		0.14	
07/28/25 18:01	0		6.15		291573.3		-0.1		1		0.16	
07/28/25 18:02	-8.7		3.87		500076		1.5		7.7		0.19	
07/28/25 18:03	-7.3		3.08		630828.3		1.9		20.6		0.23	
07/28/25 18:04	0		5.13		609955.1		-0.1		27.7		0.32	
07/28/25 18:05	0		14.8		573472.8		-0.1		27.8		0.57	
07/28/25 18:06	0		19.91		580935.5		0		27.8		0.9	
07/28/25 18:07	0		20.37		580079.6		0		27.8		1.24	
07/28/25 18:08	0		21.2		570450.8		-0.1		27.4		1.59	
07/28/25 18:09	0		22.29		577766.7		-0.1		27.3		1.95	
07/28/25 18:10	0.6		22.66		576462.5		4.3		27.3		2.32	
07/28/25 18:11	19		23.13		579288.3		122		27.4		2.7	
07/28/25 18:12	5.8		5.8		587085.5		58.8		27.4		2.79	
07/28/25 18:13	3.1		7.38		604600.9		41.6		27.3		2.91	
07/28/25 18:14	2.8		9.87		622379.8		38.1		27.3		3.07	
07/28/25 18:15	2.8		9.83		634980.5		38.2		27.3		3.23	
07/28/25 18:16	3.4		9.63		636902.5		42.2		27.4		3.39	
07/28/25 18:17	3.3		9.69		647297.6		42.1		27.3		3.55	
07/28/25 18:18	3.8		9.59		646074.9		45.9		27.3		3.71	
07/28/25 18:19	3.7		9.59		647786.6		44.4		27.4		3.87	
07/28/25 18:20	3.3		9.59		646808.5		42.2		27.3		4.03	
07/28/25 18:21	3.8		9.69		646808.5		45.6		27.3		4.19	
07/28/25 18:22	3.3		9.87		656327.8		42.1		27.3		4.35	
07/28/25 18:23	2.8		9.59		646563.9		38.3		27.3		4.51	

	CT6_NH3Slip_Ppmvdc_1M		CT6_NOx_Ppmvdc_1M		CT6_ExhaustFlow_LbPerHr_1M		CT6_NH3Inj_LbPerHr_1M		CT6_Load_MWe_1M		CT6_NOx_SUSLbs_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
07/28/25 18:24	3.7		9.76		658319.6		45.9		27.3		0	
07/28/25 18:25	3.2		9.65		658568.6		42.2		27.4		0	
07/28/25 18:26	3.2		9.65		657323.7		42.2		27.3		0	
07/28/25 18:27	3.3		9.76		657074.7		42.1		27.3		0	
07/28/25 18:28	3.3		9.76		658070.7		42.2		27.3		0	
07/28/25 18:29	4.5		9.65		656825.7		50.6		27.3		0	
07/28/25 18:30	8.1		8.37		657821.7		79.1		27.3		0	
07/28/25 18:31	7.7		3		656576.7		83		27.3		0	
07/28/25 18:32	10.7		2.57		657074.7		105		27.3		0	
07/28/25 18:33	9.9		2.04		657074.7		100.4		27.3		0	
07/28/25 18:34	8.6		1.5		657074.7		91.8		27.3		0	
07/28/25 18:35	10.7		1.39		657074.7		106.9		27.3		0	
07/28/25 18:36	8.9		1.29		656576.7		94		27.3		0	
07/28/25 18:37	8.9		1.29		657074.7		94.1		27.3		0	
07/28/25 18:38	6.9		1.39		657323.7		79		27.3		0	
07/28/25 18:39	7.9		1.5		656825.7		86.2		27.3		0	
07/28/25 18:40	6.8		1.5		656576.7		78.4		27.3		0	
07/28/25 18:41	8.2		1.5		656825.7		88.4		27.3		0	
07/28/25 18:42	9		1.5		656825.7		94		27.3		0	
07/28/25 18:43	9		1.5		656576.7		94		27.3		0	
07/28/25 18:44	6.8		1.5		657074.7		78.4		27.3		0	
07/28/25 18:45	6.8		1.5		656576.7		78.3		27.3		0	
07/28/25 18:46	7.9		1.5		656825.7		86.2		27.3		0	
07/28/25 18:47	7.9		1.5		656327.8		86.2		27.3		0	
07/28/25 18:48	7.9		1.5		656576.7		86.2		27.3		0	
07/28/25 18:49	9		1.5		656078.8		94		27.3		0	
07/28/25 18:50	7		1.5		645372.4		78.3		26.7		0.02	
07/28/25 18:51	11.3		1.59		506423.7		86.2		18		0.04	
07/28/25 18:52	2.8		1.66		259488.4		22.3		3.6		0.05	
07/28/25 18:53	-3.1		2.05		231611.3		8.6		0		0.05	
07/28/25 18:54	-2.5		4.1		232206.7		10.3		0		0.06	
07/28/25 18:55	0.6		8.72		236374.6		16.5		0		0.08	
07/28/25 18:56	2		11.29		239947		19.3		0		0.11	
07/28/25 18:57	1.2		7.95		217917.1		17		0		0.13	
07/28/25 18:58	0		1.2		-2282.4		5		0		0	

	CT6_NH3Slip_Ppmvdc_1M		CT6_NOx_Ppmvdc_1M		CT6_ExhaustFlow_LbPerHr_1M		CT6_NH3Inj_LbPerHr_1M		CT6_Load_MWe_1M		CT6_NOx_SUSL_Lbs_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
07/28/25 18:59	0		0.5		0		0		0		0	
07/28/25 19:00	0		0.1		0		-0.1		0		0	

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Erik C. White, Air Pollution Control Officer

Year Non-Compliance
Event Number**NON-COMPLIANCE EVENT NOTIFICATION FORM – PART I**

submit within 2 business hours after detection of the Non-Compliance Event

1. Company Name	ROSEVILLE ENERGY PARK - RPEAK	Address	5120 PHILLIP ROAD, ROSEVILLE, CA.						
2. Title V Source Status	Major Yes ☒ No ☐	Synthetic Minor	Yes ☐ No ☒						
3. For Title V Sources, is the Non-Compliance Event the Result of an Emergency under District Rule 507, Section 402.2(l)	Yes ☐ No ☒								
4. Emission Exceedances	NOx ☒	SOx ☐	PM ☐	VOC ☐	CO ☐	Opacity ☐	None ☐	check all that apply	
5. CEMS / COMS / CMS Breakdown	Yes ☐ No ☒								
6. Detection of Non-Compliance Event	Date	8/6/25	Time	17:00	☐ AM ☒ PM				
7. Start of Non-Compliance Event	Date	8/6/25	Time	16:00	☐ AM ☒ PM ☐ Not known				
8. Violation	Permit No. REPR-20-03	Condition No. 43	Rule	Section					
9. Unit / Equipment Involved	CT5								
10. Description / Cause of Non-Compliance Event	NH3 Slip - 1 Hour			☒ additional information attached					
11. Immediate Corrective Actions	Raised NOx setpoint, shut unit down			☒ additional information attached					
12. Was the Non-Compliance Event an Emission Violation or Monitoring Equipment Failure or Malfunction	Yes ☐ No ☒								
If yes, do you Request that the Violation, Failure or Malfunction be Shielded from Enforcement Action as an Upset / Breakdown Pursuant to District Rule 404									
Yes ☐		No ☐		Not Able to Determine at this Time ☒		If "Yes", complete and submit the Upset / Breakdown Checklist Form with Part I			
13. Submitted By	Eddie Vasquez			Telephone		(916) 746 - 1683			
Signature				Date	8/13/25	Time	1000	☒ AM ☐ PM	

NON-COMPLIANCE EVENT NOTIFICATION FORM – PART II

submit within 7 calendar days after end of the Non-Compliance Event

14. End of Non-Compliance Event	Date	8/6/25	Time	18:00	☐ AM ☒ PM			
15. Duration of Non-Compliance Event	Hours	2	Minutes	0				
16. Excess Emissions Estimates	NOx	SOx	PM					
	VOC	CO	Opacity	%, for	minutes	Other NH3 Slip ppmvdc		
17. Variance in Effect	Yes ☐ Variance #		No ☒					
18. Corrective and Preventative Actions Taken	(a) Minimize Emissions X		(b) Correct Event		(c) Prevent			
Future Events X	☒ additional information attached							
19. If Not Able to Determine in Item 12 of Part I, Was the Non-Compliance Event an Emission Violation or Monitoring Equipment Failure or Malfunction	Yes ☐ No ☒							
If yes, do you Request that the Violation, Failure or Malfunction be Shielded from Enforcement Action as an Upset / Breakdown Under District Rule 404								
Yes ☐		No ☒		If "Yes", complete and submit the Upset / Breakdown Checklist Form if not previously submitted with Part I				
20. Submitted By	Nathan Ribordy			Telephone		(916) 746 - 1673		
I certify under penalty of law that I am the responsible official for this facility, or his/her duly designated representative, and based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.								
Signature				Date	8/13/25	Time	10:00	☒ AM ☐ PM

UPSET / BREAKDOWN AND EMERGENCY CHECKLIST

Non-Compliance
Event Number

Company Name	Address
Detection of Non-Compliance Event	Date _____ Time _____ ☐ AM ☐ PM

Complete the following questions associated with determining whether an event is an "Upset/Breakdown" Event pursuant to Rule 404, and/or an "Emergency" Event pursuant to Rule 507. To be considered as a legitimate Upset / Breakdown or Emergency event, all of the checklist questions must be answered with a "Yes" checkmark.

Yes No

- | | | |
|--------------------------|--------------------------|--|
| ☐ | ☐ | 1. Equipment associated with the breakdown event have been designed, maintained, and operated in a manner consistent with minimizing emissions. |
| ☐ | ☐ | 2. The amount and duration of emissions as a result of the event have been minimized. |
| ☐ | ☐ | 3. The event is not part of a recurring pattern of previous breakdowns of the same equipment for same/similar reasons that are indicative of inadequate equipment design, operation, or maintenance. |
| ☐ | ☐ | 4. The event is not the result of operator error, negligence, carelessness, or willful misconduct (i.e., the facility is being properly operated). |
| ☐ | ☐ | 5. The event is not the result of improper equipment design. |
| ☐ | ☐ | 6. The event is not the result of improper preventative maintenance of equipment. |
| ☐ | ☐ | 7. The event is the result of a sudden, unavoidable breakdown of equipment, beyond the control of the operator. |
| ☐ | ☐ | 8. The event could not have been foreseen or avoided or planned for, and could not have been avoided or prevented by better operating and maintenance practices. |
| ☐ | ☐ | 9. The event has not resulted in a nuisance. |
| ☐ | ☐ | 10. The event is not the result of the disregard of air pollution rules or regulations. |
| ☐ | ☐ | 11. This Upset / Breakdown form has been completed and submitted to the District in a timely manner -- within 7 calendar days from the end of the Non-Compliance Event. |
| ☐ | ☐ | 12. Immediate corrective actions have been taken to minimize emissions, as described in Item 11 on the Part I Non-Compliance Event Notification Form. |

I certify under penalty of law that I am the responsible official for this facility, or his/her duly designated representative, and based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Signature _____

You are requesting that the District not take enforcement action because the Non-Compliance Event is the result of an "Upset / Breakdown" Event under District Rule 404. A breakdown condition means an unforeseeable failure or malfunction of 1) any air pollution control equipment or related operating equipment which causes a violation of any emission limitations or restriction prescribed by the District Rules and Regulations, or by State law, or 2) any in-stack continuous monitoring equipment, where such failure or malfunction: (1) is not the result of neglect or disregard of any air pollution control law or rule or regulation; (2) is not intentional or the result of negligence; (3) is not the result of improper maintenance; (4) does not constitute a nuisance; (5) is not a recurrent breakdown of the same equipment. You have the burden of providing sufficient information to demonstrate that the Upset / Breakdown was an unforeseeable equipment failure or malfunction that meets the above listed criteria. This checklist must be completed and returned to the District with either the Part 1 or Part II Non-Compliance Event Notification form to attest to your having made this determination. Submission of a request for shielding from enforcement action does not by itself confer such a shield. If breakdown or emission exceeding operations continue after the breakdown or emission exceedance is identified, the possibility exists that the District after consideration of the information provided, the timeliness and completeness of the submittals, and a comparison to other like breakdowns, may ultimately determine that the Non-Compliance Event was not the result of a legitimate Upset / Breakdown event and may elect to take enforcement action. Action to return to compliance should be accomplished as expeditiously as possible. Thus, you are advised to: (1) assure that the breakdown meets the criteria for an unforeseeable failure or malfunction; (2) minimize emissions resulting from the event to the maximum degree possible; and (3) assure that the required failure and malfunction information and information on the corrective actions taken is provided to the District in a complete and timely manner.

To: Bruce Springsteen, *Manager, Compliance and Enforcement, PCAPCD*
Heather Selvester, *Air Quality Specialist, PCAPCD*

From: Nathan Ribordy, *Power Generation Superintendent*

Date: August 13, 2025

Subject: Non-Compliance Event Notification #2025-015 PART II

This memo provides supplemental details to the Non-Compliance Event Notification #2025-015 submitted on August 7, 2025, regarding an incident involving RPEAK Combustion Turbine #5 (CT5).

Incident Summary:

- **Startup Time:** 07:52
- **Full Load Achieved:** 08:03
- **Event:** Ammonia slip exceedance identified for the 1600 hour, at 10.3ppmvdc.
- **Response:** A setpoint change was made to the NOx controller to reduce ammonia consumption and associated slip. At approximately 17:23 engine load was reduced by 1MW to reduce NOx and the demand on the emissions control equipment. It appeared this change would resolve the slip issue, but at the completion of the 1700 hour the average slip was 10.2ppmvdc.
- **Investigation:** It was noted that the inlet NOx from the engine was higher than what was expected going into the catalyst at the end of the run. Evaluation of the day's CEMS data showed a steady increase in slip and SCR inlet NOx concurrent to the increase in ambient temperature (Attachment). Increased slip with an increase in inlet NOx is indicative of the emissions control equipment attempting to correct for the high inlet NOx.

Review of the SCR design data (Braden-Americas DWG 25101-101 Rev E) reveals the catalyst and associated equipment are designed for 25ppmvdc NOx (Figure 1). The inlet NOx from the engine at approximately 28ppmvdc was operating beyond the design capability of the catalyst.

FLOW CONDITIONS:

- MASS FLOW RATE: 823,365 PPH
- NORMAL AVERAGE EXHAUST TEMPERATURE 850°F

EMISSIONS AT STACK OUTLET:

- NOx: DESIGN 25 TO 2.5 PPMVD @ 15% OXYGEN
- CO: DESIGN 78.3 TO 2.5 PPMVD @ 15% OXYGEN
- NH3 SLIP: 5 PPMVD @ 15% OXYGEN
- SCR CATALYST DESIGN FOR 20,000 OPERATING HOURS OR 39 MONTHS FROM SHIPMENT
- CO CATALYST DESIGN FOR 20,000 OPERATING HOURS NOT TO EXCEED 60 MONTHS OF OPERATION OR 66 MONTHS FROM SHIPMENT
- 20 MINUTES TO EMISSION COMPLIANCE

Figure 1

Engine NOx is controlled by water injection. Water injection rates are derived from a table in the control system. Fuel flow determines the water injection rate (in pounds per hour) from what appears to be an uncorrected ACFM fuel flow. Based on the initial investigation and

available data water injection ratios that were previously tuned were not sufficient as ambient temperatures exceeded ~93°F due to the lack of corrected fuel flow.

Follow-Up Actions:

Training was conducted during the division's safety meeting on 8/12/25 regarding emissions control and the need to reduce engine load if other troubleshooting activities do not resolve the issue.

Test runs were scheduled for CT5 on 8/12/25 to adjust the water injection curves while ambient temperatures better reflected summertime operations to reduce demand on the emissions control equipment. It should be noted that operating the SCR to produce stack NOx values lower than the designed 2.5ppmvdc stresses the system and likely contributes to ammonia slip.

Additional investigation is being made to determine if the fuel flow errors used in the water injection control logic can be corrected. The existing plan is to develop optimum water to fuel curves for winter and summer operations. Tuning changes may need to be implemented prior to season changes to minimize NOx from the engine while not increasing engine wear from excessive water use.

Respectfully,



Nathan Ribordy, P.E.

(916) 746-1673

nribordy@roseville.ca.us

NH3 Slip Ppmvdc 1-Hour Block Excess Emissions

CT5

From: 08/06/2025 00:00 To: 08/06/2025 23:59 Facility Name: ROSEVILLE ENERGY
Generated: 08/07/2025 04:43 Location: Roseville, CA



Tag Name: CT5_NH3Slip_Ppmvdc_1H

Total Operating Time: 13.00 Hour(s)

No Exclusions Allowed

Non-Operating Time: 11.00 Hour(s) Report Time: 24.00 Hour(s)

Inc No	Start Time	End Time	Duration in Hour(s)	Tag Value	Limit	Reason Code	Action Code
1	08/06/25 16:00	08/06/25 16:59	1	10.3	10.0	3 - Process Problems	3 - RETURN TO NORMAL OPERATIONS
2	08/06/25 17:00	08/06/25 17:59	1	10.2	10.0	3 - Process Problems	3 - RETURN TO NORMAL OPERATIONS

Total operating Time:	13.00 Hour(s)
Total Duration (Online only):	2.00 Hour(s)
Time in exceedance as a percentage of operating time:	15.38 %
Time in compliance as a percentage of operating time:	84.62 %

Report Code	Type	Text	Duration	Duration Percent
3	Reason	Process Problems	2	100.00
3	Action	RETURN TO NORMAL OPERATIONS	2	100.00

Sample Spreadsheet Listing

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 7:40	0		0		-0.3		0		0.3		0	
08/06/25 7:41	0		0		-0.2		0		0.1		0	
08/06/25 7:42	0		0		-0.2		0		0.4		0	
08/06/25 7:43	0		0		-0.2		0		0.6		0	
08/06/25 7:44	0		0		-0.2		0		0		0	
08/06/25 7:45	0		0		-0.2		0		0.2		0	
08/06/25 7:46	0		0		-0.2		0		0		0	
08/06/25 7:47	0		0		-0.2		0		0.6		0	
08/06/25 7:48	0		0		-0.2		0		0.8		0	
08/06/25 7:49	0		0		-0.2		0		0.2		0	
08/06/25 7:50	0		0		-0.2		0		-0.8		0	
08/06/25 7:51	0		0		-0.2		0		-0.5		0	
08/06/25 7:52	0		0		-0.2		0		8.6		0	
08/06/25 7:53	7.4		0		2.46		373168.1		31		0	
08/06/25 7:54	11.5		0		24.67		251476.1		38.3		0	
08/06/25 7:55	15		0		34.42		239078.7		39.7		0	
08/06/25 7:56	15.2		0		37.61		244784.6		40.6		0	
08/06/25 7:57	15.1		0		36.43		255427.4		40.6		0	
08/06/25 7:58	16.2		0		31.96		389144.8		64.6		2.6	
08/06/25 7:59	39.2		0		44.67		644412		156		13.8	
08/06/25 8:00	34.2		9.5		35.29		647687		241.9		24.6	
08/06/25 8:01	30.9		14		14.7		596025.7		259.7		26.7	
08/06/25 8:02	30.2		11.4		0.94		601025.1		261.8		27.2	
08/06/25 8:03	29.6		11.8		0.84		606894.1		264.4		27.5	
08/06/25 8:04	29.4		11.8		0.94		609502.5		265.5		27.7	
08/06/25 8:05	29.5		11.8		1.12		607328.8		264.6		27.7	
08/06/25 8:06	29.5		11.9		1.5		609502.5		265.5		27.8	
08/06/25 8:07	29.4		11.5		2		622204.6		266.8		28	
08/06/25 8:08	28.5		10.6		2.34		666059.7		267.1		28	
08/06/25 8:09	27		10.3		2.21		689113.9		266.9		28	
08/06/25 8:10	25.5		9.2		1.86		712861.5		266.2		27.9	
08/06/25 8:11	24.7		8.7		1.53		713115.1		266.3		28	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 8:12	24.3		8.2		1.42		712607.9		266.1		28	
08/06/25 8:13	24.3		8.1		1.53		715397.4		267.1		28.1	
08/06/25 8:14	24.3		8.2		1.64		711086.3		265.5		28	
08/06/25 8:15	24.3		0.8	X	2.7	X	1102582.3	X	266.9		28.1	
08/06/25 8:16	24.2		0	X	1.1	X	0	X	265.9		28	
08/06/25 8:17	24.2		0	X	0.3	X	0	X	265.4		27.9	
08/06/25 8:18	24.2		0	X	-0.2	X	0	X	265.4		28	
08/06/25 8:19	24.2		0	X	-0.2	X	0	X	266		28	
08/06/25 8:20	23.9		11.3	X	0.47	X	606024.6	X	264		27.8	
08/06/25 8:21	23.8		50.9	X	2.51	X	182808.3	X	264.2		27.8	
08/06/25 8:22	23.9		50.9	X	2.68	X	182677.3	X	264		27.7	
08/06/25 8:23	24		50.1	X	2.71	X	183529.1	X	265.2		27.8	
08/06/25 8:24	24		50.8	X	2.71	X	183004.9	X	264.5		27.8	
08/06/25 8:25	24		50.7	X	2.74	X	183398	X	265.1		27.9	
08/06/25 8:26	24		70.3	X	100.75	X	181760	X	262.7		27.6	
08/06/25 8:27	24		78.4	X	142.96	X	182022.1	X	263.1		27.6	
08/06/25 8:28	24		78.4	X	142.93	X	182677.3	X	264		27.8	
08/06/25 8:29	24.1		78.9	X	142.98	X	181628.9	X	262.5		27.6	
08/06/25 8:30	24.1		77.6	X	137.31	X	182415.2	X	263.6		27.8	
08/06/25 8:31	24.1		57.2	X	31.9	X	183398	X	265.1		27.9	
08/06/25 8:32	24		50.3	X	0.31	X	182611.8	X	263.9		27.8	
08/06/25 8:33	24		50	X	0.25	X	182087.6	X	263.2		27.7	
08/06/25 8:34	24		49.4	X	0.2	X	182873.8	X	264.3		27.7	
08/06/25 8:35	24		28.8	X	0.23	X	302577.6	X	263.6		27.8	
08/06/25 8:36	24		6.3	X	0.96	X	783925.6	X	265.6		27.8	
08/06/25 8:37	24		8.1	X	1.89	X	721919.2	X	264.6		27.9	
08/06/25 8:38	24		8.3	X	2.45	X	721919.2	X	264.6		27.9	
08/06/25 8:39	24.1		8.1	X	2.45	X	722952.7	X	265		27.8	
08/06/25 8:40	24.1		8.9		2.34		720627.3		264.1		27.9	
08/06/25 8:41	24		8.9		2.23		725019.8		265.7		27.9	
08/06/25 8:42	24		8.6		2.12		723986.2		265.3		27.9	
08/06/25 8:43	24.1		8.5		2.12		725278.2		265.8		28	
08/06/25 8:44	24.2		8.2		2.16		738435.8		265.5		28	
08/06/25 8:45	24.2		8.2		2.16		740015.9		266.1		28	
08/06/25 8:46	24.2		8.2		2.16		738962.5		265.7		28	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 8:47	24.3		8.2		2.16		737645.7		265.2		27.9	
08/06/25 8:48	24.4		8.1		2.16		733168.7		263.6		27.8	
08/06/25 8:49	24.4		8.2		2.16		737119		265.1		27.9	
08/06/25 8:50	24.3		8.1		2.16		738435.8		265.5		27.8	
08/06/25 8:51	24.3		7.8		2.16		735802.3		264.6		27.8	
08/06/25 8:52	24.3		7.8		2.16		736329		264.8		27.8	
08/06/25 8:53	24.3		7.8		2.16		741596		266.7		28.2	
08/06/25 8:54	24.4		8		2.12		728895.5		267.1		28.3	
08/06/25 8:55	24.6		8.4		2.23		728637.1		267		28.3	
08/06/25 8:56	24.6		8.4		2.23		733029.6		268.7		28.3	
08/06/25 8:57	24.6		8.4		2.23		727086.8		266.5		28.2	
08/06/25 8:58	24.5		8		2.16		742912.7		267.1		28.3	
08/06/25 8:59	24.3		7.8		2.16		741332.6		266.6		28.2	
08/06/25 9:00	24.3		8		2.12		733546.4		268.8		28.3	
08/06/25 9:01	24.4		8		2.27		748706.4		269.2		28.3	
08/06/25 9:02	24.5		8.4		2.34		733029.6		268.7		28.3	
08/06/25 9:03	24.5		8		2.27		747126.3		268.7		28.3	
08/06/25 9:04	24.4		8.1		2.27		746336.3		268.4		28.3	
08/06/25 9:05	24.2		8		2.16		744492.8		267.7		28.3	
08/06/25 9:06	24		7.8		2.16		744229.5		267.6		28.3	
08/06/25 9:07	23.8		7.8		2.16		746072.9		268.3		28.3	
08/06/25 9:08	23.8		8.1		2.16		745019.5		267.9		28.3	
08/06/25 9:09	23.8		8		2.16		745019.5		267.9		28.3	
08/06/25 9:10	23.9		7.7		2.04		745282.9		268		28.3	
08/06/25 9:11	23.9		7.7		2.04		744756.2		267.8		28.3	
08/06/25 9:12	23.9		7.8		2.16		745546.2		268.1		28.3	
08/06/25 9:13	23.8		7.8		2.16		741859.3		266.8		28.2	
08/06/25 9:14	23.8		7.8		2.16		744229.5		267.6		28.3	
08/06/25 9:15	23.8		7.7		2.16		747653		268.8		28.3	
08/06/25 9:16	23.9		7.8		2.16		745282.9		268		28.3	
08/06/25 9:17	23.9		7.8		2.16		745019.5		267.9		28.3	
08/06/25 9:18	23.8		7.8		2.16		745546.2		268.1		28.3	
08/06/25 9:19	23.8		7.8		2.16		746072.9		268.3		28.3	
08/06/25 9:20	23.8		7.7		2.04		745809.6		268.2		28.3	
08/06/25 9:21	24		7.7		2.04		744756.2		267.8		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWve_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 9:22	24.1		7.7		2.16		745809.6		268.2		28.3	
08/06/25 9:23	24.1		7.7		2.16		746336.3		268.4		28.3	
08/06/25 9:24	24		7.5		2.16		745809.6		268.2		28.3	
08/06/25 9:25	23.8		7.5		2.04		745809.6		268.2		28.3	
08/06/25 9:26	23.7		7.5		2.16		743966.1		267.5		28.2	
08/06/25 9:27	23.6		7.5		2.16		746599.6		268.5		28.3	
08/06/25 9:28	23.6		7.5		2.16		746863		268.6		28.3	
08/06/25 9:29	23.6		7.5		2.16		744492.8		267.7		28.3	
08/06/25 9:30	23.7		7.5		2.16		750286.6		269.8		28.3	
08/06/25 9:31	23.8		7.6		2.27		746336.3		268.4		28.3	
08/06/25 9:32	23.8		7.8		2.27		746599.6		268.5		28.3	
08/06/25 9:33	23.7		7.8		2.27		746599.6		268.5		28.3	
08/06/25 9:34	23.8		7.6		2.16		746072.9		268.3		28.3	
08/06/25 9:35	23.9		7.4		2.16		748179.7		269		28.3	
08/06/25 9:36	23.8		7.5		2.16		746599.6		268.5		28.3	
08/06/25 9:37	23.8		7.6		2.27		747916.4		268.9		28.3	
08/06/25 9:38	24		7.7		2.27		744492.8		267.7		28.2	
08/06/25 9:39	24.2		7.7		2.38		747126.3		268.7		28.3	
08/06/25 9:40	24.3		8		2.38		746599.6		268.5		28.3	
08/06/25 9:41	24.3		7.9		2.27		748179.7		269		28.3	
08/06/25 9:42	24.2		7.8		2.27		743702.8		267.4		28.2	
08/06/25 9:43	24.2		7.8		2.16		748179.7		269		28.3	
08/06/25 9:44	24.1		7.9		2.27		746599.6		268.5		28.3	
08/06/25 9:45	24		7.8		2.16		747126.3		268.7		28.3	
08/06/25 9:46	23.9		7.8		2.16		746072.9		268.3		28.3	
08/06/25 9:47	24		7.9		2.16		746599.6		268.5		28.3	
08/06/25 9:48	24		7.8		2.16		747126.3		268.7		28.3	
08/06/25 9:49	24		7.8		2.16		744756.2		267.8		28.3	
08/06/25 9:50	23.9		7.9		2.16		746072.9		268.3		28.3	
08/06/25 9:51	23.8		7.8		2.16		747126.3		268.7		28.3	
08/06/25 9:52	23.7		7.5		2.16		746336.3		268.4		28.3	
08/06/25 9:53	23.8		7.5		2.16		745282.9		268		28.3	
08/06/25 9:54	23.9		7.7		2.27		747126.3		268.7		28.3	
08/06/25 9:55	23.9		7.8		2.27		745809.6		268.2		28.3	
08/06/25 9:56	23.8		7.8		2.16		747653		268.8		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 9:57	23.8		7.8		2.16		748969.8		269.3		28.3	
08/06/25 9:58	23.8		7.9		2.16		746072.9		268.3		28.3	
08/06/25 9:59	23.9		7.5		2.16		746863		268.6		28.3	
08/06/25 10:00	23.9		7.8		2.16		745809.6		268.2		28.3	
08/06/25 10:01	24		7.9		2.27		745809.6		268.2		28.3	
08/06/25 10:02	24		7.8		2.16		745546.2		268.1		28.3	
08/06/25 10:03	24		7.9		2.16		746336.3		268.4		28.3	
08/06/25 10:04	24		7.8		2.16		748179.7		269		28.3	
08/06/25 10:05	24		7.8		2.16		746072.9		268.3		28.3	
08/06/25 10:06	23.9		7.7		2.16		745809.6		268.2		28.3	
08/06/25 10:07	23.8		7.5		2.16		746863		268.6		28.3	
08/06/25 10:08	23.9		7.7		2.16		746863		268.6		28.3	
08/06/25 10:09	24		7.9		2.27		746863		268.6		28.3	
08/06/25 10:10	24.1		7.8		2.27		746599.6		268.5		28.3	
08/06/25 10:11	24		7.9		2.27		746599.6		268.5		28.3	
08/06/25 10:12	23.9		7.8		2.16		746072.9		268.3		28.3	
08/06/25 10:13	23.8		7.9		2.16		746336.3		268.4		28.3	
08/06/25 10:14	23.8		7.7		2.16		748179.7		269		28.3	
08/06/25 10:15	23.8		7.9		2.16		746072.9		268.3		28.3	
08/06/25 10:16	23.8		7.9		2.16		748179.7		269		28.3	
08/06/25 10:17	23.8		7.7		2.16		746599.6		268.5		28.3	
08/06/25 10:18	23.8		7.8		2.16		747916.4		268.9		28.3	
08/06/25 10:19	23.8		7.9		2.16		746863		268.6		28.3	
08/06/25 10:20	23.8		7.8		2.16		746863		268.6		28.3	
08/06/25 10:21	23.7		7.5		2.16		747916.4		268.9		28.3	
08/06/25 10:22	23.7		7.5		2.16		747126.3		268.7		28.3	
08/06/25 10:23	23.7		7.7		2.27		746599.6		268.5		28.3	
08/06/25 10:24	23.8		7.9		2.27		746599.6		268.5		28.3	
08/06/25 10:25	24		7.8		2.27		750813.3		270		28.3	
08/06/25 10:26	24.1		7.8		2.27		746599.6		268.5		28.3	
08/06/25 10:27	24.1		7.8		2.27		746599.6		268.5		28.3	
08/06/25 10:28	24.2		7.8		2.27		749233.1		269.4		28.3	
08/06/25 10:29	24.1		7.8		2.27		749496.5		269.5		28.3	
08/06/25 10:30	24.1		7.8		2.16		744756.2		267.8		28.2	
08/06/25 10:31	24		7.8		2.16		747126.3		268.7		28.3	

	CT5_NOx_SCR_Ppm_1M			CT5_NH3Slip_Ppmvdc_1M			CT5_NOx_Ppmvdc_1M			CT5_ExhaustFlow_LbPerHr_1M			CT5_GasFlow_kscfh_1M			CT5_Load_MWve_1M		
Date/Time	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc
08/06/25 10:32	24			7.8			2.16			746863			268.6			28.3		
08/06/25 10:33	24.1			7.8			2.16			748443.1			269.1			28.3		
08/06/25 10:34	24.2			7.8			2.27			748969.8			269.3			28.3		
08/06/25 10:35	24.2			7.8			2.27			747653			268.8			28.3		
08/06/25 10:36	24.1			7.8			2.27			750549.9			269.9			28.3		
08/06/25 10:37	24.2			7.8			2.27			748443.1			269.1			28.3		
08/06/25 10:38	24.3			7.8			2.27			746336.3			268.4			28.3		
08/06/25 10:39	24.4			7.8			2.27			747916.4			268.9			28.3		
08/06/25 10:40	24.4			7.8			2.38			748443.1			269.1			28.3		
08/06/25 10:41	24.5			8.1			2.38			750286.6			269.8			28.3		
08/06/25 10:42	24.5			8.1			2.38			751866.7			270.4			28.3		
08/06/25 10:43	24.7			8.1			2.38			747653			268.8			28.3		
08/06/25 10:44	24.9			8			2.38			749233.1			269.4			28.3		
08/06/25 10:45	24.8			8.2			2.38			747916.4			268.9			28.3		
08/06/25 10:46	24.8			8.2			2.38			747653			268.8			28.3		
08/06/25 10:47	24.8			8.3			2.38			746336.3			268.4			28.3		
08/06/25 10:48	24.6			8.2			2.27			748179.7			269			28.3		
08/06/25 10:49	24.6			8.2			2.27			747916.4			268.9			28.3		
08/06/25 10:50	24.6			7.9			2.31			759090.7			267.7			28.2		
08/06/25 10:51	24.4			8.3			2.27			748443.1			269.1			28.3		
08/06/25 10:52	24.4			8.2			2.16			747916.4			268.9			28.3		
08/06/25 10:53	24.5			8.2			2.16			749759.9			269.6			28.3		
08/06/25 10:54	24.6			8.2			2.27			748969.8			269.3			28.3		
08/06/25 10:55	24.6			8.2			2.27			749233.1			269.4			28.3		
08/06/25 10:56	24.6			8.6			2.38			749233.1			269.4			28.3		
08/06/25 10:57	24.7			8.6			2.27			749496.5			269.5			28.3		
08/06/25 10:58	24.7			8.5			2.27			750813.3			270			28.3		
08/06/25 10:59	24.7			8.2			2.16			747653			268.8			28.3		
08/06/25 11:00	24.6			8.3			2.27			746599.6			268.5			28.3		
08/06/25 11:01	24.5			8.5			2.27			748706.4			269.2			28.3		
08/06/25 11:02	24.5			8			2.2			764998.1			269.8			28.3		
08/06/25 11:03	24.4			8.2			2.04			748443.1			269.1			28.3		
08/06/25 11:04	24.5			8.2			2.16			747916.4			268.9			28.3		
08/06/25 11:05	24.7			8.2			2.16			748706.4			269.2			28.3		
08/06/25 11:06	24.8			8.2			2.16			747126.3			268.7			28.3		

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 11:07	24.9		8.3		2.27		747126.3		268.7		28.3	
08/06/25 11:08	25		8.5		2.27		748179.7		269		28.3	
08/06/25 11:09	25		8.5		2.27		748706.4		269.2		28.3	
08/06/25 11:10	25.1		8.5		2.27		746863		268.6		28.3	
08/06/25 11:11	25.1		8.5		2.27		748706.4		269.2		28.3	
08/06/25 11:12	25.1		8.4		2.27		749759.9		269.6		28.3	
08/06/25 11:13	25.1		8.4		2.16		750813.3		270		28.3	
08/06/25 11:14	25		8.4		2.16		751076.6		270.1		28.3	
08/06/25 11:15	24.9		8.5		2.16		745809.6		268.2		28.3	
08/06/25 11:16	25		8.5		2.16		747653		268.8		28.3	
08/06/25 11:17	25.1		8.5		2.27		748969.8		269.3		28.3	
08/06/25 11:18	25		8.6		2.27		747126.3		268.7		28.3	
08/06/25 11:19	24.9		8.6		2.27		751076.6		270.1		28.3	
08/06/25 11:20	24.8		8.6		2.27		748179.7		269		28.3	
08/06/25 11:21	24.8		8.6		2.27		751603.3		270.3		28.3	
08/06/25 11:22	24.8		8.6		2.27		748443.1		269.1		28.3	
08/06/25 11:23	24.8		8.6		2.27		747916.4		268.9		28.3	
08/06/25 11:24	24.8		8.6		2.27		746336.3		268.4		28.3	
08/06/25 11:25	24.7		8.6		2.27		745282.9		268		28.2	
08/06/25 11:26	24.8		8.6		2.27		745809.6		268.2		28.2	
08/06/25 11:27	24.8		8.6		2.27		746336.3		268.4		28.3	
08/06/25 11:28	24.8		8.6		2.27		747126.3		268.7		28.3	
08/06/25 11:29	24.8		8.7		2.27		750023.2		269.7		28.3	
08/06/25 11:30	24.9		9		2.27		747126.3		268.7		28.3	
08/06/25 11:31	25.1		8.9		2.27		746863		268.6		28.3	
08/06/25 11:32	25.1		8.9		2.27		748443.1		269.1		28.3	
08/06/25 11:33	25.1		8.9		2.27		749496.5		269.5		28.3	
08/06/25 11:34	25.1		8.7		2.27		751076.6		270.1		28.3	
08/06/25 11:35	25.1		8.6		2.27		749496.5		269.5		28.3	
08/06/25 11:36	25.1		8.9		2.27		748969.8		269.3		28.3	
08/06/25 11:37	24.9		8.9		2.27		748443.1		269.1		28.3	
08/06/25 11:38	24.9		9		2.27		745809.6		268.2		28.2	
08/06/25 11:39	25		8.9		2.16		746599.6		268.5		28.3	
08/06/25 11:40	25.1		8.9		2.16		748706.4		269.2		28.3	
08/06/25 11:41	24.9		8.8		2.16		748179.7		269		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 11:42	24.7		8.7		2.16		748706.4		269.2		28.3	
08/06/25 11:43	24.6		8.8		2.16		747126.3		268.7		28.3	
08/06/25 11:44	24.2		8.7		2.04		749496.5		269.5		28.3	
08/06/25 11:45	24.2		8.7		2.04		747916.4		268.9		28.3	
08/06/25 11:46	24.3		8.5		1.93		749233.1		269.4		28.3	
08/06/25 11:47	24.3		8.5		1.93		749759.9		269.6		28.3	
08/06/25 11:48	24.3		8.4		1.93		750286.6		269.8		28.3	
08/06/25 11:49	24.5		8.6		2.16		750023.2		269.7		28.3	
08/06/25 11:50	24.7		8.6		2.27		748969.8		269.3		28.3	
08/06/25 11:51	24.8		8.6		2.27		749759.9		269.6		28.3	
08/06/25 11:52	24.9		8.8		2.38		750023.2		269.7		28.3	
08/06/25 11:53	24.8		8.7		2.38		747653		268.8		28.3	
08/06/25 11:54	24.7		8.7		2.27		748706.4		269.2		28.3	
08/06/25 11:55	24.6		8.6		2.27		748443.1		269.1		28.3	
08/06/25 11:56	24.7		9		2.27		749496.5		269.5		28.3	
08/06/25 11:57	24.8		9		2.27		749496.5		269.5		28.3	
08/06/25 11:58	24.7		8.9		2.27		749233.1		269.4		28.3	
08/06/25 11:59	24.7		8.6		2.16		747916.4		268.9		28.3	
08/06/25 12:00	24.6		8.6		2.16		749233.1		269.4		28.3	
08/06/25 12:01	24.5		8.6		2.16		748443.1		269.1		28.3	
08/06/25 12:02	24.6		8.6		2.16		753183.4		270.8		28.3	
08/06/25 12:03	24.8		8.9		2.27		748706.4		269.2		28.3	
08/06/25 12:04	24.9		9		2.38		746072.9		268.3		28.2	
08/06/25 12:05	24.7		8.9		2.27		748706.4		269.2		28.3	
08/06/25 12:06	24.7		8.6		2.16		748706.4		269.2		28.3	
08/06/25 12:07	24.8		8.7		2.27		747916.4		268.9		28.3	
08/06/25 12:08	24.8		9		2.38		749496.5		269.5		28.3	
08/06/25 12:09	24.8		9		2.27		749233.1		269.4		28.3	
08/06/25 12:10	24.9		8.8		2.16		751866.7		270.4		28.3	
08/06/25 12:11	25.1		8.7		2.16		746863		268.6		28.2	
08/06/25 12:12	25.2		8.9		2.27		747126.3		268.7		28.3	
08/06/25 12:13	25.2		8.8		2.27		752920.1		270.7		28.3	
08/06/25 12:14	25.2		8.9		2.27		751340		270.2		28.3	
08/06/25 12:15	25.4		8.8		2.27		749496.5		269.5		28.3	
08/06/25 12:16	25.3		8.9		2.38		748179.7		269		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 12:17	25.3		8.9		2.38		745809.6		268.2		28.2	
08/06/25 12:18	25.2		9.1		2.38		751866.7		270.4		28.3	
08/06/25 12:19	25.2		8.9		2.38		750813.3		270		28.3	
08/06/25 12:20	25.2		8.9		2.27		747653		268.8		28.3	
08/06/25 12:21	25.2		9.2		2.27		748706.4		269.2		28.3	
08/06/25 12:22	25.1		9.3		2.27		748443.1		269.1		28.3	
08/06/25 12:23	25		9		2.27		751603.3		270.3		28.3	
08/06/25 12:24	24.8		8.9		2.16		752130		270.5		28.3	
08/06/25 12:25	24.7		8.9		2.16		751076.6		270.1		28.3	
08/06/25 12:26	24.8		9		2.16		749759.9		269.6		28.3	
08/06/25 12:27	24.9		8.9		2.27		750023.2		269.7		28.3	
08/06/25 12:28	24.9		9.3		2.27		751603.3		270.3		28.3	
08/06/25 12:29	25		8.9		2.27		746863		268.6		28.2	
08/06/25 12:30	25.1		8.9		2.27		748443.1		269.1		28.3	
08/06/25 12:31	25.2		9.3		2.38		749496.5		269.5		28.3	
08/06/25 12:32	25.2		9.3		2.38		748706.4		269.2		28.3	
08/06/25 12:33	25.1		9.3		2.27		748969.8		269.3		28.3	
08/06/25 12:34	25		9.3		2.27		750023.2		269.7		28.3	
08/06/25 12:35	25.1		9.4		2.27		745282.9		268		28.2	
08/06/25 12:36	25.2		9.3		2.27		749759.9		269.6		28.3	
08/06/25 12:37	25		9.4		2.27		746599.6		268.5		28.2	
08/06/25 12:38	25		9.3		2.27		751076.6		270.1		28.3	
08/06/25 12:39	25		9.3		2.16		751340		270.2		28.3	
08/06/25 12:40	24.9		9.4		2.16		746599.6		268.5		28.2	
08/06/25 12:41	24.9		9.3		2.16		751603.3		270.3		28.3	
08/06/25 12:42	25		9.3		2.16		752130		270.5		28.3	
08/06/25 12:43	25.1		9.3		2.27		750549.9		269.9		28.3	
08/06/25 12:44	25.1		9.3		2.16		748969.8		269.3		28.3	
08/06/25 12:45	25		9.3		2.16		750023.2		269.7		28.3	
08/06/25 12:46	25		9.2		2.16		749496.5		269.5		28.3	
08/06/25 12:47	25.1		9.3		2.16		748443.1		269.1		28.3	
08/06/25 12:48	25.1		9.3		2.27		750549.9		269.9		28.3	
08/06/25 12:49	25		9.3		2.27		748443.1		269.1		28.3	
08/06/25 12:50	25		9.3		2.27		750023.2		269.7		28.3	
08/06/25 12:51	24.9		9.3		2.27		748969.8		269.3		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 12:52	24.8		9.4		2.27		750549.9		269.9		28.3	
08/06/25 12:53	24.7		9.3		2.16		750023.2		269.7		28.3	
08/06/25 12:54	24.8		9.4		2.16		747653		268.8		28.3	
08/06/25 12:55	24.8		9.3		2.16		750549.9		269.9		28.3	
08/06/25 12:56	24.6		9.4		2.16		749759.9		269.6		28.3	
08/06/25 12:57	24.7		9		2.16		749759.9		269.6		28.3	
08/06/25 12:58	24.8		9.2		2.16		749496.5		269.5		28.3	
08/06/25 12:59	25		9.3		2.27		748706.4		269.2		28.3	
08/06/25 13:00	25.2		9.3		2.38		746072.9		268.3		28.2	
08/06/25 13:01	25.4		9.4		2.38		747916.4		268.9		28.3	
08/06/25 13:02	25.5		9.7		2.38		745546.2		268.1		28.2	
08/06/25 13:03	25.4		9.7		2.38		748179.7		269		28.3	
08/06/25 13:04	25.1		9.7		2.27		749759.9		269.6		28.3	
08/06/25 13:05	25		9.4		2.16		750549.9		269.9		28.3	
08/06/25 13:06	25.1		9.4		2.27		749759.9		269.6		28.3	
08/06/25 13:07	25.1		9.4		2.27		749233.1		269.4		28.3	
08/06/25 13:08	25		9.5		2.38		748179.7		269		28.3	
08/06/25 13:09	24.8		9.5		2.27		748706.4		269.2		28.3	
08/06/25 13:10	24.7		9.5		2.27		751340		270.2		28.3	
08/06/25 13:11	24.9		9.5		2.27		752656.7		270.6		28.3	
08/06/25 13:12	25		9.6		2.27		748443.1		269.1		28.3	
08/06/25 13:13	25.3		9.5		2.27		751076.6		270.1		28.3	
08/06/25 13:14	25.3		9.5		2.27		749759.9		269.6		28.3	
08/06/25 13:15	25.3		9.5		2.27		748969.8		269.3		28.3	
08/06/25 13:16	25.2		9.6		2.27		747653		268.8		28.3	
08/06/25 13:17	25.1		9.5		2.27		750813.3		270		28.3	
08/06/25 13:18	24.9		9.7		2.27		746336.3		268.4		28.2	
08/06/25 13:19	25		9.6		2.16		745809.6		268.2		28.2	
08/06/25 13:20	25.3		9.5		2.16		748179.7		269		28.3	
08/06/25 13:21	25.5		9.4		2.27		752656.7		270.6		28.3	
08/06/25 13:22	25.3		9.5		2.27		748969.8		269.3		28.3	
08/06/25 13:23	25.1		9.5		2.16		749233.1		269.4		28.3	
08/06/25 13:24	25.4		9.5		2.16		745546.2		268.1		28.2	
08/06/25 13:25	25.8		9.4		2.27		748706.4		269.2		28.3	
08/06/25 13:26	25.8		9.8		2.38		748179.7		269		28.3	

	CT5_NOx_SCR_Ppm_1M			CT5_NH3Slip_Ppmvdc_1M			CT5_NOx_Ppmvdc_1M			CT5_ExhaustFlow_LbPerHr_1M			CT5_GasFlow_kscfh_1M			CT5_Load_MWe_1M		
Date/Time	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc	Value	SI	Modc
08/06/25 13:27	25.7			9.8			2.27			751603.3			270.3			28.3		
08/06/25 13:28	25.6			9.6			2.27			748969.8			269.3			28.3		
08/06/25 13:29	25.7			9.6			2.27			746863			268.6			28.2		
08/06/25 13:30	25.5			9.6			2.27			747653			268.8			28.3		
08/06/25 13:31	25.3			9.9			2.27			745809.6			268.2			28.2		
08/06/25 13:32	25.2			9.8			2.16			751866.7			270.4			28.3		
08/06/25 13:33	25.3			9.6			2.16			751340			270.2			28.3		
08/06/25 13:34	25.5			9.6			2.16			748706.4			269.2			28.3		
08/06/25 13:35	25.5			9.6			2.27			748706.4			269.2			28.3		
08/06/25 13:36	25.5			9.6			2.27			749759.9			269.6			28.3		
08/06/25 13:37	25.6			9.9			2.38			749496.5			269.5			28.3		
08/06/25 13:38	25.8			9.9			2.38			747916.4			268.9			28.3		
08/06/25 13:39	25.8			9.9			2.27			746599.6			268.5			28.3		
08/06/25 13:40	25.9			9.8			2.27			751866.7			270.4			28.3		
08/06/25 13:41	25.8			9.8			2.27			747916.4			268.9			28.3		
08/06/25 13:42	25.8			9.8			2.27			747916.4			268.9			28.3		
08/06/25 13:43	25.8			9.8			2.27			748706.4			269.2			28.3		
08/06/25 13:44	25.8			9.8			2.27			750286.6			269.8			28.3		
08/06/25 13:45	25.8			9.8			2.27			752130			270.5			28.3		
08/06/25 13:46	25.9			9.8			2.27			749496.5			269.5			28.3		
08/06/25 13:47	25.8			10.2			2.27			744756.2			267.8			28.2		
08/06/25 13:48	25.8			10.2			2.27			748443.1			269.1			28.3		
08/06/25 13:49	25.7			10			2.27			748443.1			269.1			28.3		
08/06/25 13:50	25.7			10			2.16			745546.2			268.1			28.2		
08/06/25 13:51	25.7			9.9			2.16			746072.9			268.3			28.3		
08/06/25 13:52	25.7			9.5			2.16			749233.1			269.4			28.3		
08/06/25 13:53	25.7			9.6			2.16			748706.4			269.2			28.3		
08/06/25 13:54	25.8			9.8			2.27			749759.9			269.6			28.3		
08/06/25 13:55	26			10			2.38			747653			268.8			28.3		
08/06/25 13:56	26			9.9			2.38			749496.5			269.5			28.3		
08/06/25 13:57	25.9			9.9			2.27			745282.9			268			28.3		
08/06/25 13:58	25.9			9.5			2.27			751603.3			270.3			28.3		
08/06/25 13:59	25.9			9.5			2.27			750023.2			269.7			28.3		
08/06/25 14:00	25.8			9.9			2.27			748706.4			269.2			28.3		
08/06/25 14:01	25.9			10			2.27			747126.3			268.7			28.3		

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 14:02	25.8		9.8		2.27		747916.4		268.9		28.3	
08/06/25 14:03	25.8		9.5		2.16		750549.9		269.9		28.3	
08/06/25 14:04	25.7		9.5		2.16		747916.4		268.9		28.3	
08/06/25 14:05	25.6		9.6		2.16		752130		270.5		28.3	
08/06/25 14:06	25.6		9.5		2.16		750023.2		269.7		28.3	
08/06/25 14:07	25.5		9.6		2.16		749233.1		269.4		28.3	
08/06/25 14:08	25.6		9.5		2.16		750023.2		269.7		28.3	
08/06/25 14:09	25.5		9.6		2.27		748706.4		269.2		28.3	
08/06/25 14:10	25.5		9.4		2.16		747126.3		268.7		28.3	
08/06/25 14:11	25.5		9.2		2.16		751076.6		270.1		28.3	
08/06/25 14:12	25.5		9.2		2.16		747653		268.8		28.3	
08/06/25 14:13	25.5		9.6		2.27		747126.3		268.7		28.3	
08/06/25 14:14	25.5		9.6		2.27		749233.1		269.4		28.3	
08/06/25 14:15	25.5		9.3		2.16		746599.6		268.5		28.3	
08/06/25 14:16	25.6		9.2		2.16		750813.3		270		28.3	
08/06/25 14:17	25.7		9.5		2.27		744756.2		267.8		28.2	
08/06/25 14:18	25.7		9.6		2.27		747126.3		268.7		28.3	
08/06/25 14:19	25.7		9.6		2.27		749759.9		269.6		28.3	
08/06/25 14:20	25.7		9.6		2.27		745809.6		268.2		28.3	
08/06/25 14:21	25.8		9.6		2.27		747653		268.8		28.3	
08/06/25 14:22	25.8		9.6		2.27		747126.3		268.7		28.3	
08/06/25 14:23	25.7		9.6		2.27		747653		268.8		28.3	
08/06/25 14:24	25.7		9.6		2.27		746336.3		268.4		28.3	
08/06/25 14:25	25.6		9.6		2.27		748179.7		269		28.3	
08/06/25 14:26	25.5		9.5		2.27		746336.3		268.4		28.3	
08/06/25 14:27	25.4		9.2		2.16		746863		268.6		28.3	
08/06/25 14:28	25.4		9.2		2.16		748443.1		269.1		28.3	
08/06/25 14:29	25.4		9.4		2.27		745282.9		268		28.3	
08/06/25 14:30	25.3		9.4		2.27		745019.5		267.9		28.2	
08/06/25 14:31	25.1		9.4		2.16		750549.9		269.9		28.3	
08/06/25 14:32	25.1		9		2.16		748443.1		269.1		28.3	
08/06/25 14:33	24.9		9.1		2.16		745546.2		268.1		28.2	
08/06/25 14:34	25		9.4		2.27		746599.6		268.5		28.3	
08/06/25 14:35	25		9.3		2.27		750286.6		269.8		28.3	
08/06/25 14:36	24.9		9		2.16		751340		270.2		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MW_e_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 14:37	24.9		8.9		2.16		749496.5		269.5		28.3	
08/06/25 14:38	25		9.3		2.27		752130		270.5		28.3	
08/06/25 14:39	25.2		9.3		2.38		752920.1		270.7		28.3	
08/06/25 14:40	25.3		9.2		2.27		748706.4		269.2		28.3	
08/06/25 14:41	25.4		9.1		2.27		748969.8		269.3		28.3	
08/06/25 14:42	25.4		9.2		2.27		747653		268.8		28.3	
08/06/25 14:43	25.2		9.3		2.27		746336.3		268.4		28.2	
08/06/25 14:44	25.3		9.2		2.27		749496.5		269.5		28.3	
08/06/25 14:45	25.4		9.2		2.27		747916.4		268.9		28.3	
08/06/25 14:46	25.5		9.2		2.27		749759.9		269.6		28.3	
08/06/25 14:47	25.5		9.2		2.27		749496.5		269.5		28.3	
08/06/25 14:48	25.4		9.2		2.38		749496.5		269.5		28.3	
08/06/25 14:49	25.4		9.3		2.38		748179.7		269		28.3	
08/06/25 14:50	25.5		9.2		2.38		748969.8		269.3		28.3	
08/06/25 14:51	25.6		9.2		2.38		748969.8		269.3		28.3	
08/06/25 14:52	25.6		9.2		2.38		749496.5		269.5		28.3	
08/06/25 14:53	25.6		9.4		2.5		748179.7		269		28.3	
08/06/25 14:54	25.7		9.6		2.5		750023.2		269.7		28.3	
08/06/25 14:55	25.6		9.6		2.5		748706.4		269.2		28.3	
08/06/25 14:56	25.5		9.4		2.38		749496.5		269.5		28.3	
08/06/25 14:57	25.5		9.2		2.27		751076.6		270.1		28.3	
08/06/25 14:58	25.5		9.3		2.38		749496.5		269.5		28.3	
08/06/25 14:59	25.7		9.6		2.5		750813.3		270		28.3	
08/06/25 15:00	25.9		9.6		2.5		749496.5		269.5		28.3	
08/06/25 15:01	26.2		9.5		2.61		750023.2		269.7		28.3	
08/06/25 15:02	26.3		9.9		2.61		750023.2		269.7		28.3	
08/06/25 15:03	26.3		9.9		2.61		749233.1		269.4		28.3	
08/06/25 15:04	26.4		9.8		2.5		750023.2		269.7		28.3	
08/06/25 15:05	26.3		9.9		2.5		749496.5		269.5		28.3	
08/06/25 15:06	26.2		9.9		2.38		749233.1		269.4		28.3	
08/06/25 15:07	26		9.6		2.38		749233.1		269.4		28.3	
08/06/25 15:08	26.1		9.6		2.38		750023.2		269.7		28.3	
08/06/25 15:09	26.2		9.9		2.5		750023.2		269.7		28.3	
08/06/25 15:10	26.2		9.9		2.5		750286.6		269.8		28.3	
08/06/25 15:11	26.2		9.9		2.38		749496.5		269.5		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 15:12	26.2		9.9		2.38		749233.1		269.4		28.3	
08/06/25 15:13	26.3		9.9		2.38		749496.5		269.5		28.3	
08/06/25 15:14	26.2		9.9		2.38		749233.1		269.4		28.3	
08/06/25 15:15	26.2		9.9		2.38		748969.8		269.3		28.3	
08/06/25 15:16	26.1		9.9		2.27		748969.8		269.3		28.3	
08/06/25 15:17	26.1		9.9		2.27		749233.1		269.4		28.3	
08/06/25 15:18	26.1		9.9		2.27		748706.4		269.2		28.3	
08/06/25 15:19	26.2		9.9		2.27		748706.4		269.2		28.3	
08/06/25 15:20	26.1		9.9		2.27		748969.8		269.3		28.3	
08/06/25 15:21	26		9.8		2.27		748706.4		269.2		28.3	
08/06/25 15:22	26.1		9.6		2.27		748443.1		269.1		28.3	
08/06/25 15:23	26.2		9.5		2.27		753446.8		270.9		28.3	
08/06/25 15:24	26.2		9.7		2.38		747126.3		268.7		28.3	
08/06/25 15:25	26.2		9.9		2.38		750549.9		269.9		28.3	
08/06/25 15:26	26.2		9.9		2.38		750286.6		269.8		28.3	
08/06/25 15:27	26.3		9.8		2.27		750549.9		269.9		28.3	
08/06/25 15:28	26.4		9.8		2.38		747126.3		268.7		28.2	
08/06/25 15:29	26.5		10.1		2.5		752130		270.5		28.3	
08/06/25 15:30	26.4		10.1		2.5		751076.6		270.1		28.3	
08/06/25 15:31	26.4		9.9		2.38		749233.1		269.4		28.3	
08/06/25 15:32	26.4		10.1		2.38		748179.7		269		28.3	
08/06/25 15:33	26.4		10.3		2.5		750286.6		269.8		28.3	
08/06/25 15:34	26.4		10.2		2.38		747916.4		268.9		28.3	
08/06/25 15:35	26.4		10		2.38		750549.9		269.9		28.3	
08/06/25 15:36	26.1		10		2.27		748443.1		269.1		28.3	
08/06/25 15:37	25.9		10		2.27		748969.8		269.3		28.3	
08/06/25 15:38	25.7		10.1		2.27		745546.2		268.1		28.2	
08/06/25 15:39	25.7		10		2.16		751866.7		270.4		28.3	
08/06/25 15:40	25.9		9.9		2.16		750023.2		269.7		28.3	
08/06/25 15:41	26.3		9.9		2.27		750023.2		269.7		28.3	
08/06/25 15:42	26.6		10.1		2.38		750286.6		269.8		28.3	
08/06/25 15:43	26.6		10.2		2.38		748969.8		269.3		28.3	
08/06/25 15:44	26.6		10.2		2.38		747653		268.8		28.2	
08/06/25 15:45	26.5		10.1		2.38		753183.4		270.8		28.3	
08/06/25 15:46	26.4		10		2.38		747653		268.8		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 15:47	26.2		10.2		2.38		748179.7		269		28.3	
08/06/25 15:48	26		10		2.27		750286.6		269.8		28.3	
08/06/25 15:49	25.9		10.1		2.27		745282.9		268		28.2	
08/06/25 15:50	25.9		10.1		2.27		747653		268.8		28.3	
08/06/25 15:51	26.1		10		2.27		748179.7		269		28.3	
08/06/25 15:52	26.2		10		2.27		745282.9		268		28.2	
08/06/25 15:53	26.2		10		2.27		749496.5		269.5		28.3	
08/06/25 15:54	26.2		9.8		2.27		746863		268.6		28.3	
08/06/25 15:55	26.2		9.6		2.27		748179.7		269		28.3	
08/06/25 15:56	26.2		9.8		2.27		748443.1		269.1		28.3	
08/06/25 15:57	26.3		9.9		2.27		748443.1		269.1		28.3	
08/06/25 15:58	26.4		9.8		2.16		748969.8		269.3		28.3	
08/06/25 15:59	26.6		9.7		2.16		751603.3		270.3		28.3	
08/06/25 16:00	26.6		9.5		2.27		749496.5		269.5		28.3	
08/06/25 16:01	26.6		9.7		2.38		744756.2		267.8		28.2	
08/06/25 16:02	26.6		9.8		2.38		746599.6		268.5		28.2	
08/06/25 16:03	26.4		9.8		2.38		750813.3		270		28.3	
08/06/25 16:04	26.4		9.9		2.27		746863		268.6		28.2	
08/06/25 16:05	26.4		9.9		2.27		747653		268.8		28.3	
08/06/25 16:06	26.5		9.8		2.27		748706.4		269.2		28.3	
08/06/25 16:07	26.6		9.8		2.38		749233.1		269.4		28.3	
08/06/25 16:08	26.6		9.8		2.38		749496.5		269.5		28.3	
08/06/25 16:09	26.7		9.7		2.38		767931.1		276.1		29.1	
08/06/25 16:10	26.8		10.1		2.45		758092.7		277.8		29.3	
08/06/25 16:11	26.7		10.2		2.45		755508.8		276.9		29.1	
08/06/25 16:12	26.7		10.4		2.45		748274.2		274.2		28.9	
08/06/25 16:13	26.9		10.6		2.56		751374.7		275.4		29	
08/06/25 16:14	27		10.6		2.56		752408.3		275.8		29	
08/06/25 16:15	27		10.7		2.56		742589.8		272.2		28.6	
08/06/25 16:16	27		10.5		2.5		748179.7		269		28.3	
08/06/25 16:17	27		10.5		2.38		748706.4		269.2		28.3	
08/06/25 16:18	27		10.3		2.38		748706.4		269.2		28.3	
08/06/25 16:19	27.2		10.1		2.38		750023.2		269.7		28.3	
08/06/25 16:20	27.2		10.5		2.38		748179.7		269		28.3	
08/06/25 16:21	27.2		10.5		2.5		746336.3		268.4		28.3	

	CT5_NOx_SCR_Ppm_1M		CT5_NH3Slip_Ppmvdc_1M		CT5_NOx_Ppmvdc_1M		CT5_ExhaustFlow_LbPerHr_1M		CT5_GasFlow_kscfh_1M		CT5_Load_MWe_1M	
Date/Time	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc	Value	SI Modc
08/06/25 16:22	27.1		10.5		2.38		749496.5		269.5		28.3	
08/06/25 16:23	27.1		10.5		2.38		748706.4		269.2		28.3	
08/06/25 16:24	27		10.5		2.38		749233.1		269.4		28.3	
08/06/25 16:25	27		10.5		2.38		749496.5		269.5		28.3	
08/06/25 16:26	26.9		10.5		2.38		748179.7		269		28.3	
08/06/25 16:27	26.8		10.5		2.27		748706.4		269.2		28.3	
08/06/25 16:28	26.8		10.4		2.27		748969.8		269.3		28.3	
08/06/25 16:29	26.8		10.1		2.16		748706.4		269.2		28.3	
08/06/25 16:30	26.8		10.2		2.27		746336.3		268.4		28.2	
08/06/25 16:31	26.8		10.6		2.27		746072.9		268.3		28.2	
08/06/25 16:32	26.9		10.5		2.27		746863		268.6		28.3	
08/06/25 16:33	27		10.3		2.27		746336.3		268.4		28.3	
08/06/25 16:34	27		10.1		2.27		750813.3		270		28.3	
08/06/25 16:35	27		10.5		2.27		749233.1		269.4		28.3	
08/06/25 16:36	27		10.5		2.27		746863		268.6		28.3	
08/06/25 16:37	27.1		10.2		2.27		745809.6		268.2		28.3	
08/06/25 16:38	27.2		9.9		2.27		747653		268.8		28.3	
08/06/25 16:39	27.3		9.8		2.27		748443.1		269.1		28.3	
08/06/25 16:40	27.5		10		2.38		749496.5		269.5		28.3	
08/06/25 16:41	27.6		9.9		2.38		748706.4		269.2		28.3	
08/06/25 16:42	27.4		10		2.38		747916.4		268.9		28.2	
08/06/25 16:43	27.5		10.1		2.5		751076.6		270.1		28.3	
08/06/25 16:44	27.8		10.3		2.5		748969.8		269.3		28.3	
08/06/25 16:45	27.9		10.3		2.61		750286.6		269.8		28.3	
08/06/25 16:46	27.9		10.3		2.61		748443.1		269.1		28.3	
08/06/25 16:47	27.8		10.3		2.5		748443.1		269.1		28.3	
08/06/25 16:48	27.8		10.3		2.61		749233.1		269.4		28.3	
08/06/25 16:49	27.7		10.4		2.5		748706.4		269.2		28.3	
08/06/25 16:50	27.8		10.6		2.5		748969.8		269.3		28.3	
08/06/25 16:51	27.8		10.6		2.38		748179.7		269		28.3	
08/06/25 16:52	27.7		10.5		2.38		745019.5		267.9		28.2	
08/06/25 16:53	27.5		10.4		2.38		747916.4		268.9		28.3	
08/06/25 16:54	27.6		10.5		2.5		748179.7		269		28.3	
08/06/25 16:55	27.6		10.7		2.5		750023.2		269.7		28.3	
08/06/25 16:56	27.5		10.8		2.38		746599.6		268.5		28.2	