

DOCKETED

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Project Title:	Walnut Energy Center Project - Compliance
TN #:	269518
Document Title:	WEC AIR QUALITY Q1 OPERATIONAL REPORT
Description:	WECA WEC CONDITION OF CERTIFICATION AQ-C7, CEC AIR QUALITY QUARTERLY OPERATIONAL REPORT
Filer:	Rena Eddy
Organization:	California Energy Commission
Submitter Role:	Public Agency
Submission Date:	4/17/2026 8:38:18 AM
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April 14, 2026

Ms. Rena Eddy
Compliance Project Manager
California Energy Commission
715 P Street
Sacramento, CA 95814
(279) 226-1210

Subject: **DOCKET NO. 2002-AFC-4C**
WECA WEC CONDITION OF CERTIFICATION AQ-C7,
CEC AIR QUALITY QUARTERLY OPERATIONAL REPORT

Dear Ms. Eddy ,

Enclosed is the Quarterly Operating Report (QOR) for the 1st Quarter of 2026 pursuant to the requirements of Part AQ-C7 of the California Energy Commission's (CEC's) Conditions of Certification for the Walnut Energy Center Authority's (WECA) Walnut Energy Center (WEC).

The QOR contains the following attachments:

- Attachment 1: Summary table identifying each condition relevant to the QOR and the manner with which compliance is addressed within the QOR;
- Attachment 2: Compliance summary identifying those conditions not covered by the Quarterly CEMS Report and their corresponding compliance status during the reporting period;
- Attachment 3: Copy of TID's Quarterly CEMS Reports for the 1st Quarter 2026 as submitted to the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) pursuant to Part AQ-15 of the Conditions of Certification;
- Attachment 4: Results of weekly/quarterly testing to demonstrate compliance with the natural gas fuel sulfur content limit pursuant to Part AQ-6 of the Conditions of Certification;

Attachment 5: Results of the quarterly testing of cooling tower blowdown water TDS to demonstrate compliance with the daily PM₁₀ emission limit on the cooling tower, and

Attachment 6: Documentation for any deviations of relevant conditions not addressed in the Quarterly CEMS Report: (**None**).

Please contact me at (209) 883-3455 if you have any questions regarding the Quarterly Operational Report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael A. Tehada', with a stylized, flowing script.

Michael A. Tehada
Combustion Turbine Department Manager

Attachments

cc: Jeff Adkins, Trinity Consulting
Susan Strachan, Strachan Consulting

ATTACHMENT 1

SUMMARY OF RELEVANT CONDITIONS

**TURLOCK IRRIGATION DISTRICT
WALNUT ENERGY CENTER
CEC QUARTERLY OPERATIONAL REPORT
SUMMARY OF RELEVANT CONDITIONS**

Condition	Parameter	Location
Combustion Gas Turbines		
AQ-4	NOx Correlation	Submitted Previously
AQ-5, -6	Natural gas sulfur content (gr/100 scf)	Attachment 4
AQ-9	CEMS Polling	Attachment 2
AQ-13	CEMS CGAs or RAAs (not RATAs)	Quarterly CEMS Report Attachment A
AQ-14	NOx, CO, O ₂ RATA	Attachment 2
AQ-15, -56	Excess Emissions	Quarterly CEMS Report
AQ-16	Start-up/shutdown (hr/year)	Attachment 2
AQ-17	Start-up/shutdown (hr/day)	Attachment 2
AQ-18	Start-up/shutdown NOx emissions (lb/hr)	Quarterly CEMS Report
AQ-19	NOx emissions (ppmvd @ 15% O ₂)	Quarterly CEMS Report
AQ-20	NOx emissions (lb/day)	Quarterly CEMS Report
AQ-21, -22	NOx emissions, short-term excursions (hr/yr)	Attachment 2
AQ-23	Start-up/shutdown CO emissions (lb/hr)	Quarterly CEMS Report
AQ-24	CO emissions (ppmvd @ 15% O ₂)	Quarterly CEMS Report
AQ-25	CO emissions (lb/day)	Quarterly CEMS Report
AQ-26	Start-up/shutdown VOC emissions (lb/hr)	Attachment 2
AQ-27	VOC emissions (ppmvd @ 15% O ₂)	Attachment 2
AQ-28	VOC emissions (lb/day)	Attachment 2
AQ-29	PM ₁₀ emissions (lb/hr, lb/day)	Attachment 2
AQ-30	SOx emissions (lb/hr, lb/day)	Attachment 2
AQ-31, -32	NH ₃ emissions (ppmvd @ 15% O ₂)	Attachment 2
AQ-33	CO/VOC emissions (lb/yr)	Attachment 2
AQ-34	NOx emissions, combined (lb/qtr)	Attachment 2
AQ-35	NOx emissions, combined (lb/yr)	Attachment 2
AQ-58	Fuel Sulfur Content, excess emissions (wt %)	Attachment 4
AQ-61, -62	Breakdown Notifications/Reports	Quarterly CEMS Report Attachment B
AQ-36	Hourly averaging periods, definitions	Certification Test Report Dated: April 2006 Filed Separately with the SJVAPCD
AQ-37	Daily and annual averaging periods, definitions	Certification Test Report Dated: April 2006 Filed Separately with the SJVAPCD
AQ-75	Commissioning emissions	Attachment 2
AQ-76	CO emissions, combined (lb/qtr)	Attachment 2
AQ-77	CO emissions, combined (lb/yr)	Attachment 2

Cooling Tower		
AQ-81	PM ₁₀ emissions (lb/day)	Attachment 2
AQ-82	Water Circulation Rate (gal/day)	Attachment 2
AQ-83	TDS concentration (mg/L)	Attachment 5
Fire Pump Engine		
AQ-90	Operating hours (hr/yr)	Attachment 2
Facility		
AQ-94	Nuisance complaints	Attachment 2
AQ-96	Visible emissions	Attachment 2
AQ-105	Soil disturbances, fugitive dust	Attachment 2
AQ-106	Bulk material, fugitive dust	Attachment 2
AQ-107	Rule 8041	Attachment 2
AQ-108	Rule 8051	Attachment 2
AQ-109	Rule 8061	Attachment 2
AQ-110	Rule 8071	Attachment 2
AQ-111	Rule 8081	Attachment 2

Notes:

Quarterly CEMS Report is included in Attachment 3.

ATTACHMENT 2
COMPLIANCE SUMMARY

**TURLOCK IRRIGATION DISTRICT
WALNUT ENERGY CENTER
CEC QUARTERLY OPERATIONAL REPORT
COMPLIANCE SUMMARY**

Condition	Parameter	Compliance Status
Combustion Gas Turbines		
AQ-5, -6	Natural gas sulfur content Limit: 0.36gr/100 scf	0.03 grs/100 scf
AQ-9	CEMS Polling	No Deviations
AQ-14	NO _x , CO, O ₂ RATA	No Deviations
AQ-16	Start-up/shutdown(combined): Limit: 592 hr/year	35.6 hrs
AQ-17	Start-up/shutdown(each): Limit: 5 hr/day	No Deviations
AQ-21, -22	Short-term excursions(combined): Limit: 20 hr/yr	No hrs
AQ-26	Start-up/shutdown VOC emissions (16.0 lb/hr)	No Deviations
AQ-27	VOC emissions (ppmvd @ 15% O ₂)	No Deviations
AQ-28	VOC emissions (lb/day)	No Deviations
AQ-29	PM ₁₀ emissions (lb/hr, lb/day)	No Deviations
AQ-30	SO _x emissions (lb/hr, lb/day)	No Deviations
AQ-31, -32	NH ₃ emissions (ppmvd @ 15% O ₂)	No Deviations
AQ-33	CO emissions(combined): Limit: 199,982 lb/yr	12,441,.5 lbs
AQ-33	VOC emissions(combined): Limit: 34,808 lb/yr	23,102.2 lbs
AQ-34	NO _x emissions(combined): Limit: 35,000 lb/qtr	19,964.8 lbs
AQ-35	NO _x emissions(combined): Limit: 140,000 lb/yr	85,110.0 lbs
AQ-75	Commissioning emissions	No Commissioning Activities
AQ-76	CO emissions(combined): Limit: 49,996 lb/qtr	3,761.8 lbs
AQ-77	CO emissions(combined): Limit: 199,982 lb/yr	12,441,.5 lbs
Cooling Tower		
AQ-81	PM ₁₀ emissions (lb/day) Limit: 30.8 lb/day	9.46 lb/day
AQ-82	Water Recirculation Rate (gal/day)	98,640,000 gal/day
Fire Pump Engine		
AQ-90	Operating hours: Limit: 100 hr/yr	28.8 hrs
Facility		
AQ-94	Nuisance complaints	No Deviations
AQ-96	Visible emissions	No Deviations
AQ-105	Soil disturbances, fugitive dust	No Deviations
AQ-106	Bulk material, fugitive dust	No Deviations
AQ-107	Rule 8041	No Deviations
AQ-108	Rule 8051	No Deviations
AQ-109	Rule 8061	No Deviations
AQ-110	Rule 8071	No Deviations
AQ-111	Rule 8081	No Deviations

ATTACHMENT 3

SJVAPCD 1ST QUARTER 2026 QUARTERLY CEMS REPORTS



April 13, 2026

Ms. Mary Canchola
San Joaquin Valley Air Pollution Control District
Northern Regional Office
4800 Enterprise Way
Modesto, CA 95356-8718

**Subject: TURLOCK IRRIGATION DISTRICT (TID)
WALNUT ENERGY CENTER (FACILITY: N-7172)
1ST QUARTER CEMS REPORT – UNIT 1 (N-7172-1-5)**

Dear Ms. Canchola,

Enclosed is the Quarterly CEMS Report for Turlock Irrigation District's Walnut Energy Center Unit N-7172-1-5 for the 1st Quarter of 2026 pursuant to the requirements of Rule 1080 (Stack Monitoring), the District's February 2007 Compliance Assistance Bulletin for CEMS Reporting Requirements, and Appendix F of 40 CFR, Part 60.

During the 1st Quarter 2026:

- Unit N-7172-1-5 experienced no hours of excess NO_x emissions.
- Unit N-7172-1-5 experienced no hours of excess CO emissions.
- Unit N-7172-1-5 experienced no hours of NO_x CEMS Analyzer downtime.
- Unit N-7172-1-5 experienced no hours of CO CEMS Analyzer downtime.
- Unit N-7172-1-5 experienced no hours of O₂ CEMS Analyzer downtime.
- Unit N-7172-1-5 experienced no hours of excess SO_x emissions during the quarter as documented by natural gas purchase records.
- Unit N-7172-1-5 experienced no CEMS out-of-control periods as determined in the daily calibration drift assessments.

Please note:

- The quarterly CGA and Linearity test reports, pursuant to Condition #14 of Permit # N-7172-1-5 are enclosed.
- As required by Condition #15 of Permit # N-7172-1-5, the Relative Accuracy Test Audit (RATA) was performed on August 12, 2025, as part of the Annual Compliance Source Tests and the results were submitted earlier.
- As the District's current form does not request the information required by 40 CFR PART 60 APPENDIX F Section 7.4 and District Rule 1080 STACK MONITORING Section 8.1 and 8.4, that information is attached to the reports.

Please contact me at (209) 883-3455 if you have any questions regarding the Quarterly CEMS Report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael A. Tehada', with a large, stylized loop at the end.

Michael A. Tehada
Combustion Turbine Department Manager

Attachments: SJVAPCD QUARTERLY CEMS REPORT – 1ST QUARTER 2026
ATTACHMENT A TEST AUDIT RESULTS

cc: Jeff Adkins, Trinity Consultants
Quarterly Operational Report, California Energy Commission – **AQ-C7**

**San Joaquin Valley
Unified Air Pollution Control District**

Certification of Truth and Accuracy

Company Name: Turlock Irrigation District	Facility ID: N - 7172
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I declare, under penalty of perjury under the laws of the state of California that based on information and belief formed after reasonable inquiry, the statements and information provided in the document are true, accurate, and complete:



Signature of Responsible Official

April 13, 2026

Date

Michael A. Tehada

Name of Responsible Official (please print)

Combustion Turbine Department Manager

Title of Responsible Official (please print)

☒ Northern Region ☐ Central Region ☐ Southern Region

QUARTERLY CEMS EXCESS EMISSION AND DOWNTIME SUMMARY

1ST ☒ JAN - MAR 2026 3RD ☐ JULY - SEPT 2026

2ND ☐ APR - JUNE 2026 4TH ☐ OCT - DEC 2026

Facility Name: Walnut Energy Center Permit #: N-7172-1-5

Location: 600 S. Washington Rd. City: Turlock

AIRS #: N-06-099-N7172 NSPS Source : ☒ Yes ☐ No

Process Equipment Description: 1047 MMBtu/hr GE Frame 7EA Gas Turbine

Pollutants Monitored ☒ NOx ☐ SOx ☒ CO ☐ Opacity ☒ O₂ ☐ CO₂ ☐ NH₃
☐ Other _____

Total Hours Process Equipment Operated This Quarter: 2074

CEM Unit Information				
Pollutant	Manufacturer / Model	Serial #	Date Installed	Total Hours CEMS Operated During Qtr
NOx	Teledyne-API 200EM	104	9/2005	2160
CO	Teledyne-API 300E	586	9/2005	2160
O ₂	Servomex-1440D	3642	9/2005	2160
PLC	Allen Bradley-1769-L33ER	6096BA37	3/2017	2160

Date of Last Performance Specification Test			
Pollutant	NOx	CO	O ₂
Date	1/12/26	1/13/26	1/12/26
Type	☐ RATA ☒ CGA ☒ Linearity	☐ RATA ☒ CGA ☐ Linearity	☐ RATA ☐ CGA ☒ Linearity

Cylinder Gas Audits and Linearity Tests were performed and the results are enclosed. Low range NOx linearity tests are not required pursuant to 40 CFR Part 75, Appendix A, Section 6.2 because the span of the low range (i.e. 10 ppmv) is less than 30 ppmv.

Emission Limits (From Operating Permits)			
Pollutant	ppm @ O ₂ %	lb/hr	lb/Day
NO _x	2.0 @ 15% (routine)		444.2 (routine)
NO _x		119 (SU/SD)	
CO	4.0 @ 15% (routine)		558.8 (routine)
CO		129 (SU/SD)	
O ₂			

Excess Emissions Information (Report in Hours)								
Pollutant	Start-Up / Shutdown	Process Problems	Breakdown	Other Known	Other Unknown	Total Hrs Excess	Total Op Hrs for Qtr	% Excess
NO _x	NONE	NONE	NONE	NONE	no	0	2074	0
CO	NONE	NONE	NONE	NONE	no	0	2074	0
O ₂	NONE	NONE	NONE	NONE	NONE	0	2074	0

Include a summary of all dates, times, and excess emissions that occurred during the reporting period or submit copies of all related breakdown reports and Title V deviations.

Excess emissions caused by a startup after shutdown due to a malfunction should be reported as an excess emission due to an equipment breakdown. The source is not however, exempt from emission limits. All exceedances are to be reported in whole hour increments.

CEM Downtime Information (Report in Hours)								
Pollutant	Monitor Malfunction	Non-Monitor Malfunction	Q/A - Cal	Other	Unknown	Total Hrs Downtime	Total Hrs	% Downtime
NO _x	no	NONE	NONE	NONE	NONE	0	2160	NONE
CO	no	NONE	NONE	NONE	NONE	0	2160	NONE
O ₂	no	NONE	NONE	NONE	NONE	0	2160	NONE

Include a summary of all downtime dates, times, duration, and activities that occurred during the reporting period or submit copies of all related breakdown reports and Title V deviations.

Non-CEM malfunctions are incidents that result in the CEM system being down but are not associated with a malfunction of the CEM system, i.e. plant power failure.

Reports must be submitted within 30 days of the end of the quarter for which the report was generated.

**INFORMATION REQUIRED BY 40 CFR PART 60
APPENDIX F, SECTION 7.4**

RATA RESULTS				
	PARAMETER	NO_x	CO	O₂
1	Date of Audit	August 12, 2025	August 12, 2025	N/A
2	Reference Method (RM)	EPA PS 2	EPA PS 4A	N/A
3	Average RM Value	0.0065 lb/MMBtu	0.27 ppmvc	N/A
4	Average CEMS value	0.0063 lb/MMBtu	0.60 ppmvc	N/A
5	Absolute value of mean difference	0.0002	0.33	N/A
6	Confidence Coefficient (CC)	0.0001	0.021	N/A
7	Percent Relative Accuracy (RA)	6.26 %	N/A	N/A
8	EPA Performance Audit Results:	N/A	N/A	N/A
8a	Audit lot number	N/A	N/A	N/A
8b	Audit sample number	N/A	N/A	N/A
8c	Results	N/A	N/A	N/A
8d	Actual Value	N/A	N/A	N/A
8e	Relative Error	N/A	N/A	N/A

NO_x CEMS passed the RATA because line 5 < 0.015 lb/MMBtu. CO CEMS passed RATA because the sum of lines 5 and 6 (0.351) < 5 ppmv. O₂ RATA was performed in conjunction with the NO_x RATA per Part 75, Appendix B.

CEMS OUT-OF-CONTROL PERIODS			
POLLUTANT	DATE and TIME	TIME INTERVAL (hours)	CORRECTIVE ACTION
NO _x	NONE	NONE	NONE REQUIRED
CO	NONE	NONE	NONE REQUIRED
O ₂	NONE	NONE	NONE REQUIRED

**INFORMATION REQUIRED BY
DISTRICT RULE 1080 (STACK MONITORING), SECTION 8.1 and 8.4**

EXCESS EMISSIONS INFORMATION								
Pollutant	Emission Limit	Compliance Averaging Period	Date/Time	Time Interval (hours)	Excess Emissions (ppmc)	Nature/Cause	Corrective Action	Preventive Measures
NOx	2.0 ppmv @ 15% O ₂	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	119.0 lb/hr (SU/SD)	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	444.2 lb/day	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	35,000 lb/quarter	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	4.0 ppmv @ 15% O ₂	3 Hour Rolling	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	129.0 lb/hr (SU/SD)	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	558.8 lb/day	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	24,998 lb/quarter	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED

NOTES:

**INFORMATION REQUIRED BY
DISTRICT RULE 1080 (STACK MONITORING), SECTION 8.1 and 8.4**

CEMS DOWNTIME INFORMATION						
Pollutant	Parameter	Date/Time	Time Interval (Hours)	Nature/Cause	Corrective Action	Preventative Measures
NO _x	Concentration (ppmv)	No Downtime	No Downtime	No Downtime	No Downtime	No Downtime
CO	Concentration (ppmv)	No Downtime	No Downtime	No Downtime	No Downtime	No Downtime
O ₂	Concentration (%)	No Downtime	No Downtime	No Downtime	No Downtime	No Downtime

ATTACHMENT A

TEST AUDIT RESULTS

Turbine 1 CO/L CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/13/2026
Result Passed

Analyzer and Monitor Information

Range Low
Instrument Span 10 ppm
Manufacturer TELEDYNE API
Model 300E
Serial Number 586

Run	Time	Reference Gas	CEMS Response	Cylinder Information
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Low Gas

1	9:18 AM	2.48	2.50
2	9:28 AM	2.48	2.39
3	9:38 AM	2.48	2.38

Mean (ppm)	2.48	2.42	
Difference of means (Cm-Ca) (ppm)	-0.1	Limit 5	Passed
CEMS Accuracy (%)	-2.3	Limit 15	Passed

Allowable Reference Values:
 2-3 ppm (20-30% of span)
 Cylinder ID: CC98129
 Expiration Date: 1/11/2029
 EPA Vendor ID: B32021
 Cylinder contains: CO,BALN

Mid Gas

1	9:23 AM	5.46	5.48
2	9:33 AM	5.46	5.49
3	9:43 AM	5.46	5.47

Mean (ppm)	5.46	5.48	
Difference of means (Cm-Ca) (ppm)	0.0	Limit 5	Passed
CEMS Accuracy (%)	0.4	Limit 15	Passed

Allowable Reference Values:
 5-6 ppm (50-60% of span)
 Cylinder ID: XC006402B
 Expiration Date: 2/19/2029
 EPA Vendor ID: B32021
 Cylinder contains: CO,BALN

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-13-26

Turbine 1 CO/H CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/13/2026
Result Passed

Analyzer and Monitor Information

Range High
Instrument Span 1000 ppm
Manufacturer TELEDYNE API
Model 300E
Serial Number 586

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	10:18 AM	250.6	255.3	Allowable Reference Values: 200-300 ppm (20-30% of span) Cylinder ID: CC208978 Expiration Date: 10/29/2032 EPA Vendor ID: B72024 Cylinder contains: CO,BALN
2	10:28 AM	250.6	255.6	
3	10:38 AM	250.6	256.0	
Mean (ppm)		250.6	255.6	
Difference of means (Cm-Ca) (ppm)		5.0	Limit 5	
CEMS Accuracy (%)		2.0	Limit 15	Passed
Mid Gas				
1	10:23 AM	548.3	551.6	Allowable Reference Values: 500-600 ppm (50-60% of span) Cylinder ID: EB0122962 Expiration Date: 12/6/2027 EPA Vendor ID: B72019 Cylinder contains: CO,BALN
2	10:33 AM	548.3	552.0	
3	10:43 AM	548.3	551.8	
Mean (ppm)		548.3	551.8	
Difference of means (Cm-Ca) (ppm)		3.5	Limit 5	
CEMS Accuracy (%)		0.6	Limit 15	Passed

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-13-2026

Turbine 1 NOx/L CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Result Passed

Analyzer and Monitor Information

Range Low
Instrument Span 10 ppm
Manufacturer TELEDYNE API
Model 200EM
Serial Number 104

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	11:18 AM	2.50	2.46	
2	11:28 AM	2.50	2.48	
3	11:38 AM	2.50	2.44	
Mean (ppm)		2.50	2.46	
Difference of means (Cm-Ca) (ppm)		0.0	Limit 5	Passed
CEMS Accuracy (%)		-1.6	Limit 15	Passed
Allowable Reference Values: 2-3 ppm (20-30% of span) Cylinder ID: EB0082080 Expiration Date: 8/27/2027 EPA Vendor ID: B72024 Cylinder contains: NO,NOX,BALN				
Mid Gas				
1	11:23 AM	5.47	5.35	
2	11:33 AM	5.47	5.31	
3	11:43 AM	5.47	5.29	
Mean (ppm)		5.47	5.32	
Difference of means (Cm-Ca) (ppm)		-0.2	Limit 5	Passed
CEMS Accuracy (%)		-2.8	Limit 15	Passed
Allowable Reference Values: 5-6 ppm (50-60% of span) Cylinder ID: CC484842 Expiration Date: 3/4/2028 EPA Vendor ID: B32025 Cylinder contains: NO,NOX,BALN				

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-12-2026

Turbine 1 NOx/H Linearity

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Test Reason
Grace Period No
Aborted No
Result **Passed**
Unit online during QA test

Analyzer and Monitor Information

Range High
Instrument Span 150 ppm
Component ID NOX
Manufacturer TELEDYNE API
Model 200EM
Serial Number 104

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	9:18 AM	36.4	35.8	Allowable Reference Values: 30-45 ppm (20-30% of span) Cylinder ID: EB0110677 Expiration Date: 5/12/2028 EPA Vendor ID: B72025 Cylinder contains: NO,NOX,BALN
2	9:33 AM	36.4	36.2	
3	9:48 AM	36.4	36.2	
Mean (ppm)		36.4	36.1	
Difference of means (R-A) (ppm)		0.3	Limit 5	Passed
Linearity Error (%)		0.9	Limit 5.0	Passed
Mid Gas				
1	9:23 AM	82.1	81.2	Allowable Reference Values: 75-90 ppm (50-60% of span) Cylinder ID: CC277186 Expiration Date: 10/27/2033 EPA Vendor ID: B72025 Cylinder contains: NO,NOX,BALN
2	9:38 AM	82.1	81.4	
3	9:53 AM	82.1	81.5	
Mean (ppm)		82.1	81.4	
Difference of means (R-A) (ppm)		0.7	Limit 5	Passed
Linearity Error (%)		0.9	Limit 5.0	Passed
High Gas				
1	9:28 AM	135.0	134.8	Allowable Reference Values: 120-150 ppm (80-100% of span) Cylinder ID: CC364044 Expiration Date: 5/1/2028 EPA Vendor ID: B72020 Cylinder contains: NO,NOX,BALN
2	9:43 AM	135.0	135.1	
3	9:58 AM	135.0	135.0	
Mean (ppm)		135.0	135.0	
Difference of means (R-A) (ppm)		0.0	Limit 5	Passed
Linearity Error (%)		0.0	Limit 5.0	Passed

Linearity Error (LE) Determination

$$LE (\%) = (|R-A| / R) * 100$$

R = Reference gas value

A = Mean of actual CEMS responses

GS 1-12-2026

Turbine 1 O2 Linearity

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Test Reason
Grace Period No
Aborted No
Result **Passed**
Unit online during QA test

Analyzer and Monitor Information

Range Single Scale
Instrument Span 21 %O2
Component ID O2D
Manufacturer SERVOMEX
Model 1440D
Serial Number 01440D1V02/3642

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	12:18 PM	5.60	5.66	
2	12:33 PM	5.60	5.66	
3	12:48 PM	5.60	5.66	
Mean (%O2)		5.60	5.66	
Difference of means (R-A) (%O2)		0.1	Limit 0.5	Passed
Linearity Error (%)		1.1	Limit 5.0	Passed
Mid Gas				
1	12:23 PM	11.04	11.11	
2	12:38 PM	11.04	11.11	
3	12:53 PM	11.04	11.11	
Mean (%O2)		11.04	11.11	
Difference of means (R-A) (%O2)		0.1	Limit 0.5	Passed
Linearity Error (%)		0.6	Limit 5.0	Passed
High Gas				
1	12:28 PM	20.90	21.11	
2	12:43 PM	20.90	21.11	
3	12:58 PM	20.90	21.11	
Mean (%O2)		20.90	21.11	
Difference of means (R-A) (%O2)		0.2	Limit 0.5	Passed
Linearity Error (%)		1.0	Limit 5.0	Passed

Allowable Reference Values:
 4.2-6.3 %O2 (20-30% of span)
 Cylinder ID: EB0141313
 Expiration Date: 1/24/2031
 EPA Vendor ID: B72023
 Cylinder contains: BALN,O2

Allowable Reference Values:
 10.5-12.6 %O2 (50-60% of span)
 Cylinder ID: CC412903
 Expiration Date: 6/21/2029
 EPA Vendor ID: B72021
 Cylinder contains: BALN,O2

Allowable Reference Values:
 16.8-21 %O2 (80-100% of span)
 Cylinder contains: AIR

Linearity Error (LE) Determination

$$LE (\%) = (|R-A| / R) * 100$$

R = Reference gas value

A = Mean of actual CEMS responses

GS 1-12-2026



April 13, 2026

Ms. Mary Canchola
San Joaquin Valley Air Pollution Control District
Northern Regional Office
4800 Enterprise Way
Modesto, CA 95356-8718

Subject: **TURLOCK IRRIGATION DISTRICT (TID)
WALNUT ENERGY CENTER (FACILITY N-7172)
1ST QUARTER CEMS REPORT – UNIT 2 (N-7172-2-5)**

Dear Ms. Canchola,

Enclosed is the Quarterly CEMS Report for Turlock Irrigation District's Walnut Energy Center Unit N-7172-2-5 for the 1st Quarter of 2026 pursuant to the requirements of Rule 1080 (Stack Monitoring), the District's February 2007 Compliance Assistance Bulletin for CEMS Reporting Requirements, and Appendix F of 40 CFR, Part 60.

During the 1st Quarter 2026:

- Unit N-7172-2-5 experienced no hours of excess NO_x emissions.
- Unit N-7172-2-5 experienced no hours of excess CO emissions.
- Unit N-7172-2-5 experienced no hours of NO_x CEMS Analyzer downtime.
- Unit N-7172-2-5 experienced no hours of CO CEMS Analyzer downtime.
- Unit N-7172-2-5 experienced no hours of O₂ CEMS Analyzer downtime.
- Unit N-7172-2-5 experienced no hours of excess SO_x emissions during the quarter as documented by natural gas purchase records.
- Unit N-7172-2-5 experienced no CEMS out-of-control periods as determined in the daily calibration drift assessments.

Please note:

- The quarterly CGA and Linearity test reports, pursuant to Condition #14 of Permit # N-7172-2-5 are enclosed.
- As required by Condition #15 of Permit # N-7172-2-5, the Relative Accuracy Test Audit (RATA) was performed on August 14, 2025 as part of the Annual Compliance Source Tests and the results were submitted earlier.
- As the District's current form does not request the information required by 40 CFR PART 60 APPENDIX F Section 7.4 and District Rule 1080 STACK MONITORING Section 8.1 and 8.4, that information is attached to the reports.

Please contact me at (209) 883-3455 if you have any questions regarding the Quarterly CEMS Report.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael A. Tehada', with a stylized, cursive script.

Michael A. Tehada
Combustion Turbine Department Manager

Attachments: SJVAPCD QUARTERLY CEMS REPORT – 1ST QUARTER 2026
ATTACHMENT A TEST AUDIT RESULTS

cc: Jeff Adkins, Trinity Consultants
Quarterly Operational Report, California Energy Commission – **AQ-C7**

**San Joaquin Valley
Unified Air Pollution Control District**

Certification of Truth and Accuracy

Company Name: Turlock Irrigation District	Facility ID: N - 7172
--	------------------------------

I declare, under penalty of perjury under the laws of the state of California that based on information and belief formed after reasonable inquiry, the statements and information provided in the document are true, accurate, and complete:



Signature of Responsible Official

April 13, 2026

Date

Michael A. Tehada

Name of Responsible Official (please print)

Combustion Turbine Department Manager

Title of Responsible Official (please print)

☒ Northern Region ☐ Central Region ☐ Southern Region

QUARTERLY CEMS EXCESS EMISSION AND DOWNTIME SUMMARY

1ST ☒ JAN - MAR 2026

3RD ☐ JULY - SEPT 2026

2ND ☐ APR - JUNE 2026

4TH ☐ OCT - DEC 2026

Facility Name: Walnut Energy Center Permit #: N-7172-2-5

Location: 600 S. Washington Rd. City: Turlock

AIRS #: N-06-099-N7172 NSPS Source : ☒ Yes ☐ No

Process Equipment Description: 1047 MMBtu/hr GE Frame 7EA Gas Turbine

Pollutants Monitored ☒ NOx ☐ SOx ☒ CO ☐ Opacity ☒ O₂ ☐ CO₂ ☐ NH₃
☐ Other _____

Total Hours Process Equipment Operated This Quarter: 2114

CEM Unit Information				
Pollutant	Manufacturer / Model	Serial #	Date Installed	Total Hours CEMS Operated During Qtr
NOx	Teledyne-API 200EM	106	9/2005	2160
CO	Teledyne-API 300E	587	9/2005	2160
O ₂	Servomex 1440D	3644	9/2005	2160
PLC	Allen Bradley-1769-L33ER	6099B9A3	3/2017	2160

Date of Last Performance Specification Test			
Pollutant	NOx	CO	O ₂
Date	1/13/26	1/12/26	1/12/26
Type	☐ RATA ☒ CGA ☒ Linearity	☐ RATA ☒ CGA ☐ Linearity	☐ RATA ☐ CGA ☒ Linearity

Cylinder Gas Audits and Linearity Tests were performed and the results are enclosed. Low range NOx linearity tests are not required pursuant to 40 CFR Part 75, Appendix A, Section 6.2 because the span of the low range (i.e. 10 ppmv) is less than 30 ppmv.

Emission Limits (From Operating Permits)			
Pollutant	ppm @ O ₂ %	lb/hr	lb/Day
NO _x	2.0 @ 15% (routine)		444.2 (routine)
NO _x		119(SU/SD)	
CO	4.0 @ 15% (routine)		558.8 (routine)
CO		129(SU/SD)	
O ₂			

Excess Emissions Information (Report in Hours)								
Pollutant	Start-Up / Shutdown	Process Problems	Breakdown	Other Known	Other Unknown	Total Hrs Excess	Total Op Hrs for Qtr	% Excess
NO _x	NONE	NONE	NONE	NONE	no	0	2114	0
CO	NONE	NONE	NONE	NONE	no	0	2114	0
O ₂	NONE	NONE	NONE	NONE	NONE	0	2114	0

Include a summary of all dates, times, and excess emissions that occurred during the reporting period or submit copies of all related breakdown reports and Title V deviations.

Excess emissions caused by a startup after shutdown due to a malfunction should be reported as an excess emission due to an equipment breakdown. The source is not however, exempt from emission limits. All exceedances are to be reported in whole hour increments.

CEM Downtime Information (Report in Hours)								
Pollutant	Monitor Malfunction	Non-Monitor Malfunction	Q/A - Cal	Other	Unknown	Total Hrs Downtime	Total Hrs	% Downtime
NO _x	no	NONE	NONE	NONE	NONE	0	2160	NONE
CO	no	NONE	NONE	NONE	NONE	0	2160	NONE
O ₂	no	NONE	NONE	NONE	NONE	0	2160	NONE

Include a summary of all downtime dates, times, duration, and activities that occurred during the reporting period or submit copies of all related breakdown reports and Title V deviations.

Non-CEM malfunctions are incidents that result in the CEM system being down but are not associated with a malfunction of the CEM system, i.e. plant power failure.

Reports must be submitted within 30 days of the end of the quarter for which the report was generated.

**INFORMATION REQUIRED BY 40 CFR PART 60
APPENDIX F, SECTION 7.4**

RATA RESULTS				
	PARAMETER	NOx	CO	O2
1	Date of Audit	August 14, 2025	August 14, 2025	N/A
2	Reference Method (RM)	EPA PS 2	EPA PS 4A	N/A
3	Average RM Value	0.0058 lb/MMBtu	0.00 ppmvc	N/A
4	Average CEMS value	0.0063 lb/MMBtu	0.00 ppmvc	N/A
5	Absolute value of mean difference	0.0005	0.00	N/A
6	Confidence Coefficient (CC)	0.0000	0.000	N/A
7	Percent Relative Accuracy (RA)	9.73 %	N/A	N/A
8	EPA Performance Audit Results:	N/A	N/A	N/A
8a	Audit lot number	N/A	N/A	N/A
8b	Audit sample number	N/A	N/A	N/A
8c	Results	N/A	N/A	N/A
8d	Actual Value	N/A	N/A	N/A
8e	Relative Error	N/A	N/A	N/A

NOx CEMS passed the RATA because line 5 < 0.015 lb/MMBtu. CO CEMS passed RATA because the sum of lines 5 and 6 (0.000) < 5 ppmv. O2 RATA was performed in conjunction with the NOx RATA per Part 75, Appendix B.

CEMS OUT-OF-CONTROL PERIODS			
POLLUTANT	DATE and TIME	TIME INTERVAL (hours)	CORRECTIVE ACTION
NOx	NONE	NONE	NONE REQUIRED
CO	NONE	NONE	NONE REQUIRED
O ₂	NONE	NONE	NONE REQUIRED

**INFORMATION REQUIRED BY
DISTRICT RULE 1080 (STACK MONITORING), SECTION 8.1 and 8.4**

EXCESS EMISSIONS INFORMATION								
Pollutant	Emission Limit	Compliance Averaging Period	Date/Time	Time Interval (hours)	Excess Emissions (ppmc)	Nature/Cause	Corrective Action	Preventive Measures
NOx	2.0 ppmv @ 15% O ₂	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	119.0 lb/hr (su/sd)	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	444.2 lb/day	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
NOx	35,000 lb/quarter	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	4.0 ppmv @ 15% O ₂	3 Hour Rolling	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	129.0 lb/hr (su/sd)	1 Hour	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	558.8 lb/day	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED
CO	24,998 lb/quarter	1 Day	NO EXCESS EMISSIONS	NONE	NONE	NONE	NONE REQUIRED	NONE REQUIRED

NOTES:

**INFORMATION REQUIRED BY
DISTRICT RULE 1080 (STACK MONITORING), SECTION 8.1 and 8.4**

CEMS DOWNTIME INFORMATION						
Pollutant	Parameter	Date/Time	Time Interval (Hours)	Nature/Cause	Corrective Action	Preventative Measures
NO _x	Concentration (ppmv)	No downtime.	No downtime.	No downtime.	No downtime.	No downtime.
CO	Concentration (ppmv)	No downtime.	No downtime.	No downtime.	No downtime.	No downtime.
O ₂	Concentration (%)	No downtime.	No downtime.	No downtime.	No downtime.	No downtime.

ATTACHMENT A

TEST AUDIT RESULTS

Turbine 2 CO/L CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Result Passed

Analyzer and Monitor Information

Range Low
Instrument Span 10 ppm
Manufacturer TELEDYNE API
Model 300E
Serial Number 587

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	11:18 AM	2.48	2.16	Allowable Reference Values: 2-3 ppm (20-30% of span) Cylinder ID: CC98129 Expiration Date: 1/11/2029 EPA Vendor ID: B32021 Cylinder contains: CO,BALN
2	11:28 AM	2.48	2.16	
3	11:38 AM	2.48	2.15	
Mean (ppm)		2.48	2.16	
Difference of means (Cm-Ca) (ppm)		-0.3	Limit 5	Passed
CEMS Accuracy (%)		-13.0	Limit 15	Passed
Mid Gas				
1	11:23 AM	5.46	5.38	Allowable Reference Values: 5-6 ppm (50-60% of span) Cylinder ID: XC006402B Expiration Date: 2/19/2029 EPA Vendor ID: B32021 Cylinder contains: CO,BALN
2	11:33 AM	5.46	5.37	
3	11:43 AM	5.46	5.36	
Mean (ppm)		5.46	5.37	
Difference of means (Cm-Ca) (ppm)		-0.1	Limit 5	Passed
CEMS Accuracy (%)		-1.6	Limit 15	Passed

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-12-2026

Turbine 2 CO/H CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Result Passed

Analyzer and Monitor Information

Range High
Instrument Span 1000 ppm
Manufacturer TELEDYNE API
Model 300E
Serial Number 587

Run	Time	Reference Gas	CEMS Response			Cylinder Information	
Low Gas							
1	12:18 PM	250.6	248.9			Allowable Reference Values: 200-300 ppm (20-30% of span) Cylinder ID: CC208978 Expiration Date: 10/29/2032 EPA Vendor ID: B72024 Cylinder contains: CO,BALN	
2	12:28 PM	250.6	250.3				
3	12:38 PM	250.6	249.7				
Mean (ppm)		250.6	249.6				
Difference of means (Cm-Ca) (ppm)		-1.0	Limit 5	Passed			
CEMS Accuracy (%)		-0.4	Limit 15	Passed			
Mid Gas							
1	12:23 PM	548.3	537.4				
2	12:33 PM	548.3	536.3			Allowable Reference Values: 500-600 ppm (50-60% of span) Cylinder ID: EB0122962 Expiration Date: 12/6/2027 EPA Vendor ID: B72019 Cylinder contains: CO,BALN	
3	12:43 PM	548.3	535.3				
Mean (ppm)		548.3	536.3				
Difference of means (Cm-Ca) (ppm)		-12.0	Limit 5				
CEMS Accuracy (%)		-2.2	Limit 15	Passed			

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-12-2026

Turbine 2 NOx/L CGA

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/13/2026
Result Passed

Analyzer and Monitor Information

Range Low
Instrument Span 10 ppm
Manufacturer TELEDYNE API
Model 200EM
Serial Number 106

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	9:18 AM	2.50	2.48	
2	9:28 AM	2.50	2.46	
3	9:38 AM	2.50	2.45	
Mean (ppm)		2.50	2.46	
Difference of means (Cm-Ca) (ppm)		0.0	Limit 5	Passed
CEMS Accuracy (%)		-1.5	Limit 15	Passed
Mid Gas				
1	9:23 AM	5.47	5.33	
2	9:33 AM	5.47	5.30	
3	9:43 AM	5.47	5.27	
Mean (ppm)		5.47	5.30	
Difference of means (Cm-Ca) (ppm)		-0.2	Limit 5	Passed
CEMS Accuracy (%)		-3.1	Limit 15	Passed

Allowable Reference Values:
2-3 ppm (20-30% of span)
Cylinder ID: EB0082080
Expiration Date: 8/27/2027
EPA Vendor ID: B72024
Cylinder contains: NO,NOX,BALN

Allowable Reference Values:
5-6 ppm (50-60% of span)
Cylinder ID: CC484842
Expiration Date: 3/4/2028
EPA Vendor ID: B32025
Cylinder contains: NO,NOX,BALN

CEMS Accuracy Determination (%)

$$\text{Accuracy (\%)} = ((Cm - Ca) / Ca) * 100$$

Ca = Reference gas value

Cm = Mean of actual CEMS responses

GS 1-13-2026

Turbine 2 NOx/H Linearity

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/13/2026
Test Reason
Grace Period No
Aborted No
Result **Passed**
Unit online during QA test

Analyzer and Monitor Information

Range High
Instrument Span 150 ppm
Component ID NOX
Manufacturer TELEDYNE API
Model 200EM
Serial Number 106

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	10:18 AM	36.4	35.7	Allowable Reference Values: 30-45 ppm (20-30% of span) Cylinder ID: EB0110677 Expiration Date: 5/12/2028 EPA Vendor ID: B72025 Cylinder contains: NO,NOX,BALN
2	10:33 AM	36.4	35.9	
3	10:48 AM	36.4	36.1	
Mean (ppm)		36.4	35.9	
Difference of means (R-A) (ppm)		0.5	Limit 5	Passed
Linearity Error (%)		1.4	Limit 5.0	Passed
Mid Gas				
1	10:23 AM	82.2	80.9	Allowable Reference Values: 75-90 ppm (50-60% of span) Cylinder ID: CC277186 Expiration Date: 10/27/2033 EPA Vendor ID: B72025 Cylinder contains: NO,NOX,BALN
2	10:38 AM	82.2	81.1	
3	10:53 AM	82.2	81.1	
Mean (ppm)		82.2	81.0	
Difference of means (R-A) (ppm)		1.2	Limit 5	Passed
Linearity Error (%)		1.4	Limit 5.0	Passed
High Gas				
1	10:28 AM	135.0	134.0	Allowable Reference Values: 120-150 ppm (80-100% of span) Cylinder ID: CC364044 Expiration Date: 5/1/2028 EPA Vendor ID: B72020 Cylinder contains: NO,NOX,BALN
2	10:43 AM	135.0	134.3	
3	10:58 AM	135.0	133.9	
Mean (ppm)		135.0	134.1	
Difference of means (R-A) (ppm)		0.9	Limit 5	Passed
Linearity Error (%)		0.7	Limit 5.0	Passed

Linearity Error (LE) Determination

$$LE (\%) = (|R-A| / R) * 100$$

R = Reference gas value

A = Mean of actual CEMS responses

GS 1-13-2026

Turbine 2 O2 Linearity

Turlock Irrigation District Walnut Energy Center

Test Information

Test Date 1/12/2026
Test Reason
Grace Period No
Aborted No
Result **Passed**
Unit online during QA test

Analyzer and Monitor Information

Range Single Scale
Instrument Span 21 %O2
Component ID O2D
Manufacturer SERVOMEX
Model 1440D
Serial Number 01440D1V02/3644

Run	Time	Reference Gas	CEMS Response	Cylinder Information
Low Gas				
1	9:18 AM	5.60	5.63	
2	9:33 AM	5.60	5.65	
3	9:48 AM	5.60	5.65	
Mean (%O2)		5.60	5.64	
Difference of means (R-A) (%O2)		0.0	Limit 0.5	Passed
Linearity Error (%)		0.8	Limit 5.0	Passed
Allowable Reference Values: 4.2-6.3 %O2 (20-30% of span) Cylinder ID: EB0141313 Expiration Date: 1/24/2031 EPA Vendor ID: B72023 Cylinder contains: BALN,O2				
Mid Gas				
1	9:23 AM	11.04	11.08	
2	9:38 AM	11.04	11.08	
3	9:53 AM	11.04	11.08	
Mean (%O2)		11.04	11.08	
Difference of means (R-A) (%O2)		0.0	Limit 0.5	Passed
Linearity Error (%)		0.4	Limit 5.0	Passed
Allowable Reference Values: 10.5-12.6 %O2 (50-60% of span) Cylinder ID: CC412903 Expiration Date: 6/21/2029 EPA Vendor ID: B72021 Cylinder contains: BALN,O2				
High Gas				
1	9:28 AM	20.90	21.07	
2	9:43 AM	20.90	21.09	
3	9:58 AM	20.90	21.08	
Mean (%O2)		20.90	21.08	
Difference of means (R-A) (%O2)		0.2	Limit 0.5	Passed
Linearity Error (%)		0.9	Limit 5.0	Passed
Allowable Reference Values: 16.8-21 %O2 (80-100% of span) Cylinder contains: AIR				

Linearity Error (LE) Determination

$$LE (\%) = (|R-A| / R) * 100$$

R = Reference gas value

A = Mean of actual CEMS responses

GS 1-12-2026

ATTACHMENT 4

FUEL SULFUR CONTENT ANALYTICAL DATA



**Zalco
Laboratories, Inc.**

4309 Armour Ave.
Bakersfield, CA 93308
661.395.0539

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Master
Project Number: PG&E Fuel Gas
Project Manager: Michael Moore

Reported:
01/16/2026 14:46

Sample Results

Sample Name: PG&E Fuel Gas

Sampled Date - Time: 1/6/2026 8:00:00AM

Lab ID: 2601123-01

Matrix: Gas

Sample Type: Grab

Analyte	Result	Report Limit	MDL	Units	Dilution	Date Analyzed	Method	Analyst Initials	Qual
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Determination of Sulfur Compounds by GC-SCD

Hydrogen sulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Carbonyl sulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Methyl Mercaptan	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Ethyl Mercaptan	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Dimethyl Sulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Carbon disulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
2 Propanethiol	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
1 Propanethiol	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Ethyl methyl sulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Diethyl sulfide	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
t-Butyl mercaptan	0.62	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	J
Tetrahydrothiophene (THT)	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Unknown sulfur compound(s)	ND	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	
Sulfur, Total	0.62	1.00	0.05	ppmv	1	1/8/26 11:05	ASTM D5504	JB	J
Sulfur, Total	0.03	0.06	0.003	gr/100 scf	1	1/8/26 11:05	ASTM D5504	JB	J

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety.

Zalco Laboratories, Inc. 4309 Armour Ave. Bakersfield CA 93308 (661) 395-0539

ATTACHMENT 5

COOLING TOWER BLOWDOWN TDS ANALYTICAL DATA



Certificate of Analysis

Sample ID: AJA0865-01
Sampled By: Michael Moore
Sample Description: Cooling Tower Blowdown

Sample Date - Time: 01/08/2026 - 07:30
Matrix: Waste Water
Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	Mult	Batch	Prepared	Analyzed	Qual
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Total Dissolved Solids	SM 2540C	2300	5.0	mg/L	1	AJA0415	01/09/26	01/09/26	
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.