

DOCKETED

Docket Number:	85-AFC-03C
Project Title:	Compliance - Application for Certification for Midway-Sunset Cogeneration Project
TN #:	270913
Document Title:	2026 Midway Sunset Report Unit C Annual Compliance and Accuracy Test
Description:	N/A
Filer:	Stephanie Urias
Organization:	Midway Sunset Cogeneration Company
Submitter Role:	Applicant
Submission Date:	6/22/2026 10:02:03 AM
Docketed Date:	6/22/2026



June 19, 2026

CC-2301

Dave Born
Supervising Air Quality Inspector
SJVAPCD
34946 Flyover Court
Bakersfield, CA 93308

Subject: Annual Compliance and Relative Accuracy Testing of Unit C

Dear Mr. Born,

Please find attached the Annual Compliance and RATA test reports for Unit C PTO # S-1135-226-28.

If you have any questions or comments, please contact Greg Jans at 661-768-3018 or Corey Lahammer at 661-768-3021.

I declare that, based on information and belief formed after reasonable inquiry, the information provided in this letter is true, accurate and complete.

Sincerely,

A handwritten signature in black ink, appearing to read "Lowell Pollema".

Lowell Pollema
Executive Director

*Annual Compliance and Relative Accuracy Testing of Unit C was submitted using PAS Facility Portal.

cc: File CC-2301 (1 Hard Copy & CD Unit C)
 Library (1 Hard Copy Unit C)
 R. Eddy CEC (Supplied on CEC Portal)
 Director EPA (Uploaded into EPA's Central Data Exchange (CDX))
 Chief CARB (1 CD Unit C)

**Source Test Report for 2026 Compliance Test and
Relative Accuracy Test Audit
Unit C
Midway Sunset Cogeneration Company
Fellows, California**

Prepared For:

**Midway Sunset Cogeneration Company
3466 W. Crocker Springs Road
Fellows, CA 93224-0457**

Prepared By:

**Montrose Air Quality Services, LLC
19479 Creek Road
Bakersfield, California 93314**

For Submission To:

**San Joaquin Valley Air Pollution Control District
34946 Flyover Court
Bakersfield, California 93308**

Document Number: PROJECT-066225-RT-8484

Test Dates: April 23-24, 2026

Submittal Date: 6/19/2026



Review and Certification

All work, calculations, and other activities and tasks performed and presented in this document were carried out by me or under my direction and supervision. I hereby certify that, to the best of my knowledge, Montrose operated in conformance with the requirements of the Montrose Quality Management System and ASTM D7036-04 during this test project.

Signature: _____ **Date:** 6/19/2026

Name: Jim Polhamus **Title:** Client Project Manager

I have reviewed, technically and editorially, details, calculations, results, conclusions, and other appropriate written materials contained herein. I hereby certify that, to the best of my knowledge, the presented material is authentic, accurate, and conforms to the requirements of the Montrose Quality Management System and ASTM D7036-04.

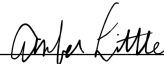
Signature: _____ **Date:** 6/19/2026

Name: Amber Little **Title:** Reporting Hub Manager-Antioch/PNW

Table of Contents

<u>Section</u>	<u>Page</u>
1.0 Introduction	5
1.1 Summary of Test Program	5
1.2 Key Personnel	9
2.0 Plant and Sampling Location Descriptions	11
2.1 Process Description, Operation, and Control Equipment	11
2.2 CEM System Description	11
2.3 Data Acquisition System	12
2.4 Flue Gas Sampling Location	12
2.5 Operating Conditions and Process Data	12
3.0 Sampling and Analytical Procedures	13
3.1 Test Methods	13
3.1.1 EPA Methods 3A, 7E, and 10 – Gaseous Emissions	13
3.1.2 EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography	14
3.1.3 Relative Accuracy Test Audit	15
3.1.4 ASTM D1945/D3246 – Fuel F _d , and HHV	16
3.1.5 EPA Method 19 – Volumetric Flow Rate	16
3.2 Process Test Methods	16
4.0 Test Discussion and Results	17
4.1 Field Test Deviations and Exceptions	17
4.2 Presentation of Results	17
5.0 Internal QA/QC Activities	25
5.1 QA/QC Audits	25
5.2 QA/QC Discussion	25
5.3 Quality Statement	25

List of Appendices

A	Field Data and Calculations	26
A.1	VOC Data Sheets	27
A.2	Instrumental Test Method Data	29
A.3	Emission Calculations/Results	56
A.4	RATA Calculations/Results	59
A.5	Example Calculations	67
A.6	General Equations	73
B	Facility Process Data	79

C	Laboratory Analysis Data	86
C.1	VOC Analyses	90
C.2	Fuel Gas Analyses	93
D	Quality Assurance/Quality Control	95
D.1	Units and Abbreviations.....	96
D.2	Calibration Gas Certs	104
D.3	Strip Charts.....	112
D.4	Accreditation Information/Certifications	118
D.5	Quality Assurance Program Summary and Equipment Calibration Schedule.....	123
E	Regulatory Information	134
E.1	Regulatory Permit to Operate	135

List of Tables

1-1	Summary of Test Program	6
1-2	Summary of Average Compliance Results – Unit C.....	7
1-3	Summary of Average RATA Results – Unit C	8
1-4	Test Personnel and Observers.....	10
4-1	Gaseous Emissions Results - Compliance Unit C	18
4-2	Relative Accuracy Test Results NO _x , ppm @ 15% O ₂ - Unit C.....	19
4-3	Relative Accuracy Test Results NO _x , lb/hr - Unit C	20
4-4	Relative Accuracy Test Results CO, ppm @ 15% O ₂ - Unit C.....	21
4-5	Relative Accuracy Test Results CO, lb/hr - Unit C.....	22
4-6	Relative Accuracy Test Results O ₂ , % - Unit C	23
4-7	Relative Accuracy Test Results CO ₂ , % - Unit C	24

List of Figures

3-1	EPA METHODS 3A (O ₂ /CO ₂), 7E, 10 SAMPLING SYSTEM.....	14
-----	--	----

1.0 Introduction

1.1 Summary of Test Program

Midway Sunset Cogeneration Company (MSCC) contracted Montrose Air Quality Services, LLC (MAQS) to perform a series of emission tests on one 78.2 MW, GE Frame 7E, with ultra-dry low NO_x combustor cans (DLN+TE), and unfired Heat Recovery Steam Generator (HRSG) at the Midway Sunset Cogeneration facility located near Taft, California. The tests were conducted on Unit C to determine compliance with the source testing limitations of the San Joaquin Valley Air Pollution Control District (SJVAPCD) Permit to Operate (PTO) No. S-1135-226-28. Additional tests were performed to audit the performance of the continuous emission monitoring system (CEMS) in accordance with all applicable regulatory requirements, including but not limited to 40 CFR Part 75 (where applicable) and 40 CFR Part 60, Appendix B.

The tests were conducted by Mr. Jim Polhamus and Mr. Sergio Figueroa of Montrose Air Quality Services, LLC (MAQS) on April 23-24, 2026. Mr. Corey Lahammer of MSCC coordinated the testing program. The tests were conducted according to the test plan dated March 16, 2026 that was submitted to and approved by SJVAPCD. Montrose Air Quality Services, LLC (MAQS) performed the tests to measure the following emission parameters:

- Emission Compliance:
 - CO (ppm @ 15% O₂, lb/hr, lb/MMBtu)
 - NO_x (ppm @ 15% O₂, lb/hr, lb/MMBtu)
 - Volatile Organic Compounds (VOC's as CH₄) (lb/hr, lb/MMBtu)
 - Sulfur Dioxide (SO₂) (lb/hr, lb/MMBtu)
- O₂ and CO₂ (% volume dry)
- Part 60 Relative Accuracy Test Audit (O₂, CO₂, CO, and NO_x)
- Fuel Analysis ("F_d" factor, HHV, Sulfur Content)
- Turbine Efficiency (%)

Montrose performed the tests to measure the emission parameters listed in Table 1-1.

**Table 1-1
Summary of Test Program**

Test Date(s)	Unit ID/ Source Name	Activity/Parameters	Test Methods	No. of Runs	Duration (Minutes)
April 23-24, 2026	MSCC / Unit C	Compliance / RATA O ₂ , CO ₂	EPA 3A	10	30
April 23-24, 2026	MSCC / Unit C	Compliance / RATA NO _x	EPA 7E	10	30
April 23-24, 2026	MSCC / Unit C	Compliance / RATA CO	EPA 10	10	30
April 23, 2026	MSCC / Unit C	Compliance VOC	EPA 18	3	30
April 23, 2026	MSCC / Unit C	Compliance VOC	ASTM D1945/D3588	1	Fuel Sample
April 23, 2026	MSCC / Unit C	Compliance SO ₂	ASTM D3246	1	Fuel Sample
April 23-24, 2026	MSCC / Unit C	Stoichiometric Calculations	EPA 19	--	--

To simplify this report, a list of Units and Abbreviations is included in Appendix D.1. Throughout this report, chemical nomenclature, acronyms, and reporting units are not defined. Please refer to the list for specific details.

This report presents the test results and supporting data, descriptions of the testing procedures, descriptions of the facility and sampling locations, and a summary of the quality assurance procedures used by Montrose. The average compliance emission test results are summarized and compared to their respective permit limits in Table 1-2. The RA test results are summarized and compared to their respective regulatory requirements in Table 1-3. Detailed results for individual test runs can be found in Section 4.0. All supporting data can be found in the appendices.

The testing was conducted by the Montrose personnel listed in Table 1-4.

Table 1-2
Summary of Average Compliance Results – Unit C
April 23, 2026

Parameter/Units	Average Results	Permit Limits
Unit Data		
Efficiency %	30.0	--
Load, Megawatts	83.2	--
Fuel Flow Rate, scfh	923,990	--
Fd factor @ 68°F, dscf/MMBtu	8,622	--
HHV @ 68°F, btu/scf	1,026	--
Stack flow rate, dscfm	454,353	--
Nitrogen Oxides (NO_x)		
ppmvd	4.55	--
ppmvd @ 15% O ₂	4.28	5.0
lb/hr	14.80	17.66
lb/MMBtu	0.016	0.018
Carbon Monoxide (CO)		
ppmvd	1.32	--
ppmvd @ 15% O ₂	1.24	25
lb/hr	2.62	54.91
lb/MMBtu	0.003	0.057
Volatile Organic Compounds (VOC)		
ppmvd	<0.50	--
ppmvd @ 15% O ₂	<0.47	--
lb/hr	<0.57	9.00
lb/MMBtu	<0.001	0.009
Sulfur Dioxide (SO₂)		
gr/100 scf	0.036	--
ppmvd @ 15% O ₂	0.02	--
lb/hr	0.09	0.92
lb/MMBtu	0.0001	0.001

Table 1-3
Summary of Average RATA Results – Unit C
April 23-24, 2025

Parameter/Units	Unit C Results	Performance Specification, Part 60	Allowable
Oxygen (O₂) Analyzer			
% volume dry	0.03% difference	PS-3	≤ 1.0% O ₂
Carbon Dioxide (CO₂) Analyzer			
% volume dry	0.12% difference	PS-3	≤ 1.0% CO ₂
Nitrogen Oxides (NO_x) Analyzer			
ppmvd @ 15% O ₂	2.80% of RM	PS-2	≤ 20% of RM
lb/hr	1.47% of RM	PS-2	≤ 20% of RM
Carbon Monoxide (CO) Analyzer			
ppmvd @ 15% O ₂	3.23% of AS	PS-4	≤ 5% of AS
lb/hr	2.90% of AS	PS-6	≤ 10% of AS

1.2 Key Personnel

A list of project participants is included below:

Facility Information

Source Location: Midway Sunset Cogeneration Company
3466 W. Crocker Springs Road
P.O Box 457
Fellows, California 93224-0457
Project Contact: Stephanie Urias
Role: Environmental Supervisor
Company: Midway Sunset Cogeneration
Company
Telephone: 661-768-3037
Email: SUrias@midwaysunset.com

Agency Information

Regulatory Agency: San Joaquin Valley Air Pollution Control District-Southern Region
Agency Contact: Mr. Dave Born
Telephone: 661-392-5559
Email: Dave.Born@valleyair.org

Testing Company Information

Testing Firm: Montrose Air Quality Services, LLC
Contact: Jim Polhamus
Title: Client Project Manager
Telephone: 661-333-6245
Email: jpolhamus@montrose-env.com

Laboratory Information

Laboratory: PGT
City, State: Bakersfield, California
Method: EPA 18, ASTM D1945/D3588,
ASTM D3246

Test personnel and observers are summarized in Table 1-4.

Table 1-4
Test Personnel and Observers

Name	Affiliation	Role/Responsibility
Jim Polhamus	Montrose	Project Manager/Field Team Leader/Qualified Individual (QI)/Trailer operator
Sergio Figueroa	Montrose	Sr. Technician /Sample recovery/Sample train operator
Jim Polhamus	Montrose	Calculations and report preparation
Corey Lahammer	Midway Sunset Cogeneration	Client Liaison/Test Coordinator

2.0 Plant and Sampling Location Descriptions

2.1 Process Description, Operation, and Control Equipment

The Midway Sunset Cogeneration facility is located at 3466 W. Cocker Springs Road, Fellows, California. The facility includes three 78.2 megawatt General Electric 7E natural gas-fired turbine engine/generators with Unit C serving as either energy peaking or Cogen unit. The turbines are served by inlet air filtration and cooling systems, dry Low-NO_x combustors, selective catalytic reduction (SCR) systems and Horiba dry extractive continuous emissions monitoring systems (CEMS) to measure O₂, CO₂, CO, and NO_x.

2.2 CEM System Description

All flue gas pollutant and diluent measurements are made on a dry basis. Effluent gas from the sampling location is filtered and transported through a heated sample line to the sample conditioning system in the main analyzer cabinet. The sample conditioning system again filters the effluent gas and a chilled condenser removes the moisture. The dry, particulate-free effluent gas is then routed to the analyzers. The analog outputs of the analyzers and certain plant inputs are transmitted to a system controller.

A Horiba ENDA controls the CEMS and provides timing and control of the sampling system, receives analog inputs from the analyzers, and provides corrected and calculated analog outputs. Automatic zero and span calibrations are performed on the CEMS monitors every twenty-four hours. Certified EPA Protocol calibration gases are injected at a valve box behind the probe. Table 2-1 outlines the make, model and operating ranges of the individual analyzers.

**TABLE 2-1
ANALYZER INFORMATION
MIDWAY SUNSET COGENERATION FACILITY
UNIT C**

Analyzer	Manufacturer / Model	Analyzer Range
O ₂	Horiba Instruments / ENDA E4420L / CMA-EC662L1	0-25%
CO	Horiba Instruments / ENDA E4420L / CMA-EC662L1	0-10 / 0-100 ppm
NO _x	Horiba Instruments / ENDA E4420L / CMA-EC662L1	0-10 / 0-150 ppm
CO ₂	Horiba Instruments / ENDA E4420L / CMA-EC662L1	0-20%

2.3 Data Acquisition System

The CEMS data acquisition and reporting system is controlled by the data acquisition and handling system (DAHS). The DAHS is a PC-based, multi-user, multi-tasking system. The DAHS provide automated data monitoring and management capabilities to the CEMS using ESC supplied software. The DAHS is utilized for operator interface, data storage, report generation, and data display. The Horiba ENDA system transmits data from the analyzers to the DAHS and polls the Horiba ENDA system every ten seconds. The system generates one-minute averages, from which 15-minute values are then calculated. All data is then reduced to 1-hour averages to comply with 40 CFR, Part 60.

The DAHS will indicate any occurrence of specification limit exceedances or CEM operational problems and will generate reports in the required format for submittal to the applicable regulatory agencies. These reports may be produced in either hard copy or electronic format and can be made available for telemetry transmission.

2.4 Flue Gas Sampling Location

The Reference Method (RM) CEMS sampling location was taken from a sampling tee installed on facilities CEMS prior to the CEMS condenser. Since these units currently operate in the simple cycle mode, the stack gas samples were taken from each unit's CEMS multi-point probe located across the transition duct. The probe consists of sixteen sampling locations which feeds into a common header. The RM sample was withdrawn from a tee installed on the unit's probe line prior to the CEMS sample conditioner.

2.5 Operating Conditions and Process Data

The emission tests were conducted while the turbine was operating at 90%-100% of baseload specified by ATC. Test conditions were established by MSCC personnel. The unit was fired exclusively on PUC-quality natural gas throughout the emission tests. Test conditions changed slightly from run to run due primarily to the change in ambient conditions and Cal ISO requirements.

Plant personnel were responsible for establishing the test conditions and collecting all applicable unit-operating data. The process data that was provided is presented in Appendix B.

3.0 Sampling and Analytical Procedures

3.1 Test Methods

The test methods for this test program have been presented in Table 1-1. Additional information regarding specific applications or modifications to standard procedures is presented below.

3.1.1 EPA Methods 3A, 7E, and 10 – Gaseous Emissions

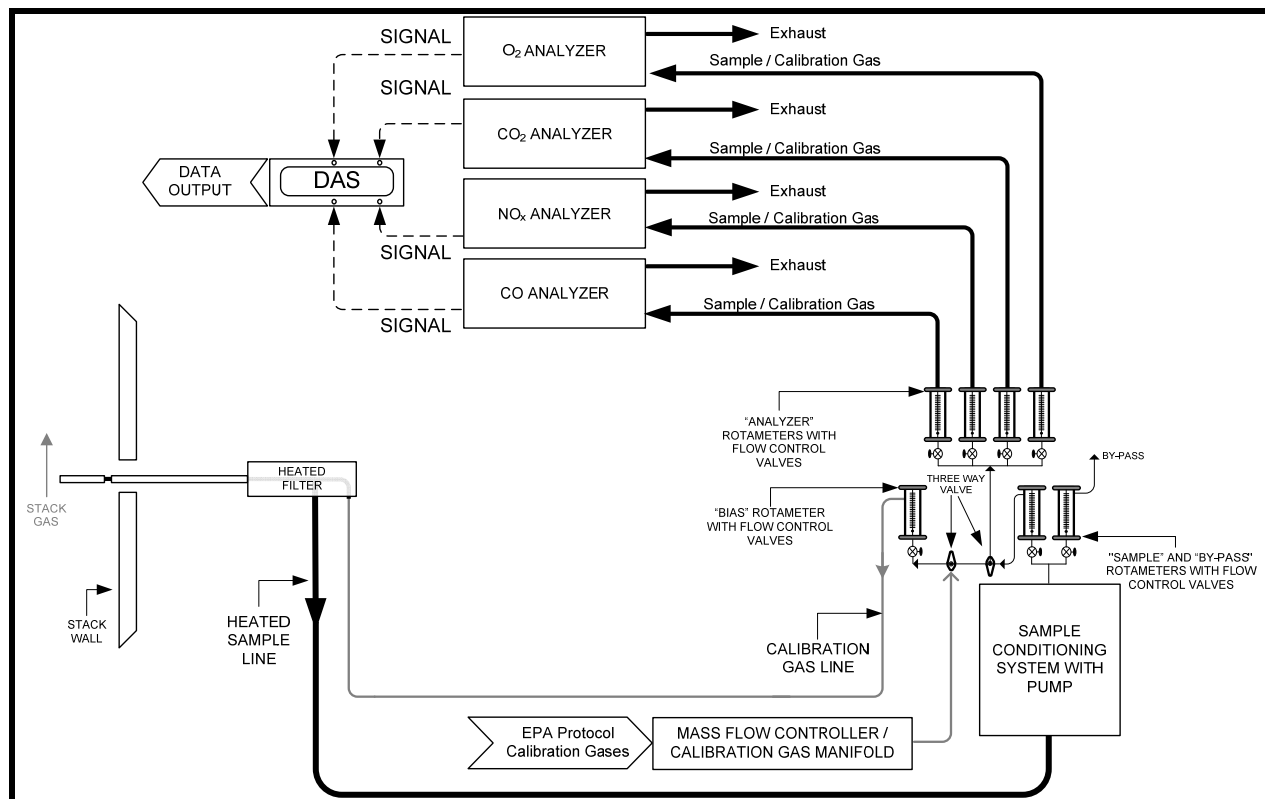
Concentrations of O₂, CO₂, NO_x, and CO are measured simultaneously using EPA Methods 3A, 7E, and 10, which are instrumental test methods. Conditioned gas is sent to a series of analyzers to measure the gaseous emission concentrations. The performance requirements of the method must be met to validate the data.

Pertinent information regarding the performance of the method is presented below:

- Method Options:
 - A dry extractive sampling system is used to report emissions on a dry basis
 - A paramagnetic analyzer is used to measure O₂
 - A nondispersive infrared analyzer is used to measure CO₂
 - A chemiluminescent analyzer is used to measure NO_x
 - A gas filter correlation nondispersive infrared analyzer is used to measure CO
- Method Exceptions:
 - A stratification test is not performed since the stack gas samples were taken from the CEMS multi-point probe located across the transition duct
- Target and/or Minimum Required Sample Duration: 30 minutes

The typical sampling system is detailed in Figure 3-1.

Figure 3-1
EPA METHODS 3A (O₂/CO₂), 7E, 10 SAMPLING SYSTEM



3.1.2 EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

EPA Method 18 is used to measure gaseous organic compounds from stationary sources. The major organic components of a gas mixture are separated by gas chromatography (GC) and are individually quantified using a flame ionization detector (FID), photoionization detector (PID), electron capture detector (ECD), or other appropriate detection principles. The retention times of each separated component are compared with those of known compounds under identical conditions. The GC analyst confirms the identity and approximate concentrations of the organic emission components beforehand. With this information, the analyst then prepares or purchases commercially available standard mixtures to calibrate the GC under conditions identical to those of the samples. The analyst also determines the need for sample dilution to avoid detector saturation, gas stream filtration to eliminate particulate matter, and prevention of moisture condensation.

Pertinent information regarding the performance of the method is presented below:

- Method Options:
 - Integrated bag sampling and analysis is performed

- Method Exceptions:
 - No pre-survey samples are collected since the expected ranges of concentrations of the samples have been determined
- Target Analytes: Methane, ethane, propane, n-butane, n-pentane, n-hexane, excluding exempt compounds as defined by SJVAPCD
- Target and/or Minimum Required Sample Duration: 30 minutes
- Analytical Laboratory: PGT, Bakersfield, CA

3.1.3 Relative Accuracy Test Audit

The turbine unit incorporates its own CEMS measuring dry-basis concentrations of O₂, CO, and NO_x. Results of the compliance test runs and the supplementary RATA test runs were used in the RATA of each system. Relative accuracy was calculated in units of ppm volume dry, ppm @ 15% O₂, and lb/hr for the CO and NO_x analyzers, and % difference for the O₂ / CO₂ analyzers. Ten 30-minute test runs were performed to complete the RATA as specified in 40 CFR, Part 60, Appendices B.

For each reference method (RM) determination, the flue gas was taken from a single sampling point located at the tee of facilities CEMS probe. The differences between the RM sample and the pollutant monitor's readings were evaluated from nine sets of paired monitor and RM test data. From these differences, the 95% confidence coefficient was calculated, and the relative accuracy determined. The test runs not included in the calculations for the determination of relative accuracy are still included in this report.

In accordance with 40 CFR, Part 60, Appendix B, Performance Specification 2, NO_x relative accuracy test results are acceptable if NO_x relative accuracy does not exceed 20% of the mean value of the RM test data in terms of units of the emission standard (if the average RM results are greater than 50% of the applicable standard). The results must be within 10% of the applicable standard (if the average RM results are less than 50% of the applicable standard).

In accordance with 40 CFR, Part 60, Appendix B, Performance Specification 4 (span values of 1,000 ppmv), CO relative accuracy test results are acceptable if the relative accuracy of the CEMS is no greater than 10% when the average RM value is used or 5% when the applicable emission standard is used. Alternately, 40 CFR, Part 60, Appendix B, Performance Specification 4A (CEMS that comply with low emission standards, less than 200 ppmv) states that CO relative accuracy test results are acceptable if within 5 ppmv when the relative accuracy is calculated as the absolute average difference between the RM and CEMS plus the 2.5% confidence coefficient.

Since the CO and NO_x analyzers incorporate equipment for determination and reporting of pollutant mass emission rates (in terms of mass per unit of time), the systems are technically defined as continuous emission rate monitoring systems (CERMS). In accordance with 40 CFR, Part 60, Appendix B, Performance Specification 6, relative accuracy test results for mass emissions are acceptable if relative accuracy does not exceed 20% of the mean value of the RM test data in terms of units of the emission standard (if the average RM

results are greater than 50% of the applicable standard). The results must be within 10% of the applicable standard (if the average RM results are less than 50% of the applicable standard).

The relative accuracy of the O₂ and CO₂ analyzers was determined in accordance with 40 CFR, Part 60, Appendix B, Performance Specification 3. The O₂ and CO₂ RATA results are acceptable if relative accuracy does not exceed 20.0% of the mean value of the RM test data. Alternately, results are acceptable if the mean difference of the O₂ monitor measurements and the corresponding RM measurements are within $\pm 1.0\%$ O₂.

3.1.4 ASTM D1945/D3246 – Fuel F_d, and HHV

Fuel sample was collected from the facility fuel supply into Tedlar bags and or fuel containers using a modified Gas Processors Association (GPA) 2166-86 method for sampling of natural gas. Analysis is performed by ASTM D1945 and D3588 for F_d, HHV (GCV). Pertinent information regarding the performance of the method is presented below:

- F Factor: Oxygen based F-factor, dry basis (F_d).
- F Factor Source: Analysis of fuel sample.
- Heat Input Data: Calculated based on fuel flow rate and higher heating value.
- Higher Heating Value Source: Analysis of fuel Sample.

3.1.5 EPA Method 19 – Volumetric Flow Rate

Stack gas volumetric flow rates were determined by stoichiometric calculations based on fuel flow rates (from the plant's certified fuel flow meters), fuel composition (from gas analysis data), and excess O₂ (%) measured from the flue gas. Calculations were performed using an "F" factor and higher heating value for natural gas as outlined in EPA Method 19. The results, presented in dry standard cubic feet per minute (dscfm), were used with the measured emission concentrations to calculate mass emission rates in lb/hr and lb/MMBtu.

3.2 Process Test Methods

The plant's unit operating data was used to document process conditions during the test runs. Unit operating data was provided by MSCC personnel. Data presented in this report includes fuel flow rates, and power output to document load conditions. The data also includes CEMS averages during the RATA runs required to calculate relative accuracy results. MAQS provided barometric pressure and ambient temperature data throughout the day if required.

4.0 Test Discussion and Results

4.1 Field Test Deviations and Exceptions

No field deviations or exceptions from the test plan or test methods occurred during this test program.

4.2 Presentation of Results

The average results are compared to the permit limits in Table 1-2. The results of individual compliance and RATA test runs performed are presented in Tables 4-1 and through 4-7. Emissions are reported in units consistent with those in the applicable regulations or requirements. Additional information is included in the appendices as presented in the Table of Contents.

Table 4-1
Gaseous Emissions Results - Unit C

Test No.	1	2	3	Average	Permit Limits
Date:	04/23/26	04/23/26	04/23/26	--	--
Start Time:	1755-1825	1840-1910	1925-1955	--	--
Process Data:					
Unit load, MW	82.3	83.3	84.1	83.2	--
Unit fuel flow @ 60 °F, scfh	914,876	925,766	931,328	923,990	--
"F _d " factor @ 68 °F, dscf/MMBtu	8,622	8,622	8,622	8,622	--
HHV @ 60 °F, btu/scf	1,026	1,026	1,026	1,026	--
Stack flow rate - based on fuel, dscfm	448,190	455,698	459,170	454,353	--
Flue gas:					
O ₂ , % volume dry	14.61	14.64	14.65	14.63	--
CO ₂ , % volume dry	3.55	3.53	3.50	3.53	--
CO Emissions:					
ppm volume dry	1.15	1.32	1.49	1.32	--
ppm dry @ 15% O ₂	1.08	1.24	1.41	1.24	25
lb/hr	2.25	2.62	2.98	2.62	54.91
lb/MMBtu	0.002	0.003	0.003	0.003	0.057
NO_x Emissions:					
ppm volume dry	4.47	4.53	4.64	4.55	--
ppm dry @ 15% O ₂	4.19	4.27	4.38	4.28	5.0
lb/hr	14.36	14.79	15.26	14.80	17.66
lb/MMBtu	0.015	0.016	0.016	0.016	0.018
VOC Emissions:					
ppm volume dry	<0.50	<0.50	<0.50	<0.50	--
ppm @ 15% O ₂	<0.47	<0.47	<0.47	<0.47	-
lb/hr as CH ₄	<0.56	<0.57	<0.57	<0.57	9.00
lb/MMBtu as CH ₄	<0.001	<0.001	<0.001	<0.001	0.009
SO₂ Emissions:					
gr/100 scf	0.036	0.036	0.036	0.036	0.31
ppm volume dry	0.02	0.02	0.02	0.02	--
ppm dry @ 15% O ₂	0.02	0.02	0.02	0.02	--
lb/hr	0.09	0.10	0.10	0.09	0.92
lb/MMBtu	0.0001	0.0001	0.0001	0.0001	0.0010

Note(s): VOC's are non-detect < 0.50 ppm

Table4-2
Relative Accuracy Test Results
NO_x, ppm @ 15% O₂ - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	4.19	4.27	-0.079
Run 2	4/23/26	1840-1910	4.27	4.28	-0.011
Run 3	4/23/26	1925-1955	4.38	4.28	0.096
Run 4	4/23/26	2006-2036	4.47	4.27	0.201
Run 5	4/23/26	2100-2130	4.43	4.33	0.094
Run 6	4/23/26	2140-2210	4.37	4.29	0.087
Run 7	4/23/26	2222-2252	4.40	4.27	0.126
Run 8	4/23/26	2305-2335	4.41	4.29	0.120
Run 9	4/24/26	2350-0020	4.39	4.29	0.099
Run 10	4/24/26	0031-0101	4.37	4.28	0.092
AVERAGES:			4.39	4.29	0.101
STANDARD DEVIATION:					0.055
CONFIDENCE COEFFICIENT:					0.042
RELATIVE ACCURACY, %:					3.25

Note: Percent relative accuracy is based on the reference method using nine of the ten available test runs.

Table 4-3
Relative Accuracy Test Results
NO_x, lb/hr - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	14.36	14.79	-0.430
Run 2	4/23/26	1840-1910	14.79	15.08	-0.290
Run 3	4/23/26	1925-1955	15.25	15.20	0.047
Run 4	4/23/26	2006-2036	15.61	15.09	0.522
Run 5	4/23/26	2100-2130	14.30	14.25	0.051
Run 6	4/23/26	2140-2210	14.08	14.12	-0.040
Run 7	4/23/26	2222-2252	14.17	14.13	0.037
Run 8	4/23/26	2305-2335	14.20	14.17	0.037
Run 9	4/24/26	2350-0020	14.16	14.20	-0.038
Run 10	4/24/26	0031-0101	14.08	14.18	-0.099
AVERAGES:			14.38	14.46	-0.081
STANDARD DEVIATION:					0.170
CONFIDENCE COEFFICIENT:					0.131
RELATIVE ACCURACY, %:					1.47

Note: Percent relative accuracy is based on the reference method using nine of the ten available test runs.

Table 4-4
Relative Accuracy Test Results
CO, ppm @ 15% O₂ - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	1.08	0.51	0.572
Run 2	4/23/26	1840-1910	1.24	0.61	0.631
Run 3	4/23/26	1925-1955	1.40	0.73	0.669
Run 4	4/23/26	2006-2036	1.58	0.84	0.740
Run 5	4/23/26	2100-2130	2.87	2.11	0.766
Run 6	4/23/26	2140-2210	3.08	2.28	0.804
Run 7	4/23/26	2222-2252	3.23	2.40	0.830
Run 8	4/23/26	2305-2335	3.20	2.42	0.783
Run 9	4/24/26	2350-0020	3.18	2.40	0.781
Run 10	4/24/26	0031-0101	3.27	2.46	0.810
AVERAGES:			2.56	1.81	0.757
STANDARD DEVIATION:					0.067
CONFIDENCE COEFFICIENT:					0.051
RELATIVE ACCURACY, (Based on Difference) PPM:					3.23

Note: Percent relative accuracy is based on the Applicable Standard using nine of the ten available test runs.

Table 4-5
Relative Accuracy Test Results
CO, lb/hr - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	2.25	0.92	1.324
Run 2	4/23/26	1840-1910	2.62	1.14	1.473
Run 3	4/23/26	1925-1955	2.98	1.42	1.554
Run 4	4/23/26	2006-2036	3.36	1.79	1.569
Run 5	4/23/26	2100-2130	5.65	4.16	1.489
Run 6	4/23/26	2140-2210	6.04	4.47	1.571
Run 7	4/23/26	2222-2252	6.34	4.75	1.593
Run 8	4/23/26	2305-2335	6.28	4.70	1.572
Run 9	4/24/26	2350-0020	6.25	4.65	1.597
Run 10	4/24/26	0031-0101	6.41	4.80	1.612
AVERAGES:			4.64	3.11	1.527
STANDARD DEVIATION:					0.088
CONFIDENCE COEFFICIENT:					0.067
RELATIVE ACCURACY, (Based on Applicable Std) %:					2.90

Note: Percent relative accuracy is based on the Applicable Standard using nine of the ten available test runs

Table 4-6
Relative Accuracy Test Results
O₂% - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	14.61	14.71	-0.097
Run 2	4/23/26	1840-1910	14.64	14.71	-0.067
Run 3	4/23/26	1925-1955	14.65	14.70	-0.050
Run 4	4/23/26	2006-2036	14.80	14.70	0.097
Run 5	4/23/26	2100-2130	14.58	14.64	-0.061
Run 6	4/23/26	2140-2210	14.58	14.61	-0.034
Run 7	4/23/26	2222-2252	14.61	14.60	0.007
Run 8	4/23/26	2305-2335	14.59	14.62	-0.027
Run 9	4/24/26	2350-0020	14.56	14.60	-0.043
Run 10	4/24/26	0031-0101	14.56	14.61	-0.047
AVERAGES:			14.62	14.64	-0.025
STANDARD DEVIATION:					0.050
CONFIDENCE COEFFICIENT:					0.039
RELATIVE ACCURACY (Based on Absolute Difference),%:					0.03

Note: Percent relative accuracy is based on the absolute difference using nine of the ten available test runs.

Table 4-7
Relative Accuracy Test Results
CO₂, % - Unit C

Run Number	Date	Time	RM CEMS	Plant CEMS	Difference
Run 1	4/23/26	1755-1825	3.55	3.40	0.151
Run 2	4/23/26	1840-1910	3.53	3.40	0.126
Run 3	4/23/26	1925-1955	3.50	3.38	0.119
Run 4	4/23/26	2006-2036	3.48	3.32	0.154
Run 5	4/23/26	2100-2130	3.56	3.40	0.156
Run 6	4/23/26	2140-2210	3.43	3.40	0.027
Run 7	4/23/26	2222-2252	3.51	3.40	0.114
Run 8	4/23/26	2305-2335	3.52	3.40	0.118
Run 9	4/24/26	2350-0020	3.54	3.40	0.137
Run 10	4/24/26	0031-0101	3.55	3.40	0.147
AVERAGES:			3.51	3.39	0.121
STANDARD DEVIATION:					0.038
CONFIDENCE COEFFICIENT:					0.030
RELATIVE ACCURACY (Based on Absolute Difference), %:					0.12

Note: Percent relative accuracy is based on the absolute difference using nine of the ten available test runs

5.0 Internal QA/QC Activities

5.1 QA/QC Audits

EPA Method 3A, 7E, and 10 calibration audits were all within the measurement system performance specifications for the calibration drift checks, system calibration bias checks, and calibration error checks.

The NO₂ to NO converter efficiency check of the analyzer was conducted per the procedures in EPA Method 7E, Section 8.2.4. The conversion efficiency met the criteria.

EPA Method 18 analytical QA/QC results are included in the laboratory report. The method QA/QC criteria were met.

5.2 QA/QC Discussion

All QA/QC criteria were met during this test program.

5.3 Quality Statement

Montrose is qualified to conduct this test program and has established a quality management system that led to accreditation with ASTM Standard D7036-04 (Standard Practice for Competence of Air Emission Testing Bodies). Montrose participates in annual functional assessments for conformance with D7036-04 which are conducted by the American Association for Laboratory Accreditation (A2LA). All testing performed by Montrose is supervised on site by at least one Qualified Individual (QI) as defined in D7036-04 Section 8.3.2. Data quality objectives for estimating measurement uncertainty within the documented limits in the test methods are met by using approved test protocols for each project as defined in D7036-04 Sections 7.2.1 and 12.10. Additional quality assurance information is included in the report appendices. The content of this report is modeled after the EPA Emission Measurement Center Guideline Document (GD-043).

Appendix A

Field Data and Calculations

Appendix A.1

VOC Data Sheets

TEDLAR BAG SAMPLING DATA SHEET

CLIENT: MIDWAY SUNSET COHEN PERFORMED BY: SF

LOCATION: CROCKER SPRINGS ROAD UNIT: UNIT C

Test #	1	2	3		
Date	4/23/26	4/23/26	4/23/26		
Time (start/stop)	1755	1840	1925		
Bag #	1 - VOC - C	2 - VOC - C	3 - VOC - C		

Comments: EPA-18

Appendix A.2

Instrumental Test Method Data



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Analyzer Configuration							
Name:			NOx				
Make/Model:			CAI 700				
25A or 7E:			7E				
Voltage max:			10				
Voltage offset:			0				
Range:			20				
Upscale:			38				
Downscale:			38				

Cylinder Information							
Zero Number:			CC163485				
Zero Conc:			0				
Low Number:							
Low Conc:							
Mid Number:			CC212465				
Mid Conc:			9.367				
High Number:			CC340026				
High Conc:			19.18				
Bias Number:			CC212465				
Bias Conc:			9.367				



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Calibration			
Name:	NOx		
Make/Model:	CAI 700		
25A or 7E:	7E		

Cylinder Concentrations			
Zero:	0.000		
Mid:	9.367		
High:	19.18		

Calibration Readings			
Zero reading:	0.033		
Mid reading:	9.714		
High reading:	19.19		

EPA Method 7E Error Calculations			
Zero %Err:	<2.0	0.172	
Mid %Err:	<2.0	1.809	
High %Err:	<2.0	0.052	



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

NOx Converter Check		
Time	NOx reading, ppm	Efficiency, %
17:16:51	16.290	90.4%
17:17:01	16.290	90.4%
17:17:11	16.260	90.3%
17:17:21	16.330	90.7%
17:17:31	16.250	90.2%
17:17:41	16.300	90.5%
17:17:51	16.230	90.1%
17:18:01	16.310	90.6%
17:18:11	16.400	91.1%
17:18:21	16.380	90.9%
17:18:31	16.480	91.5%
17:18:41	16.430	91.2%
17:18:51	16.540	91.8%
17:19:01	16.540	91.8%
17:19:11	16.600	92.2%

Summary	
Analyzer:	NOx
NO2 Cylinder Concentration:	18.01
NO2 Cylinder Number:	CC506970
NOx Analyzer Reading:	16.600
Efficiency:	92.2%



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Analyzer Configuration							
Name:	O2	CO2	NOx		CO		
Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
25A or 7E:	7E	7E	7E		7E		
Voltage max:	10	10	10		10		
Voltage offset:	0	0	0		0		
Range:	25	10	10		10		
Upscale:	35	35	38		40		
Downscale:	35	35	38		40		

Cylinder Information							
Zero Number:	CC163485	CC163485	CC163485		CC163485		
Zero Conc:	0	0	0		0		
Low Number:							
Low Conc:							
Mid Number:	CC288623	CC288623	CC308437		CC308437		
Mid Conc:	10.93	5.018	5.019		4.999		
High Number:	CC317478	CC317478	CC212465		CC212465		
High Conc:	21.04	8.552	9.367		9.937		
Bias Number:	CC288623	CC288623	CC308437		CC308437		
Bias Conc:	10.93	5.018	5.019		4.999		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Calibration					
Name:	O2	CO2	NOx	CO	
Make/Model:	CAI 700	CAI 700	CAI 700	TECO 48i	
25A or 7E:	7E	7E	7E	7E	

Cylinder Concentrations					
Zero:	0.000	0.000	0.000	0.000	
Mid:	10.93	5.018	5.019	4.999	
High:	21.04	8.552	9.367	9.937	

Calibration Readings					
Zero reading:	0.034	0.021	0.139	0.059	
Mid reading:	11.05	5.172	5.042	4.987	
High reading:	21.03	8.556	9.371	9.922	

EPA Method 7E Error Calculations					
Zero %Err:	<2.0	0.162	0.246	1.484	0.594
Mid %Err:	<2.0	0.570	1.801	0.246	-0.121
High %Err:	<2.0	-0.048	0.047	0.043	-0.151



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Initial bias								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
	25A or 7E:	7E	7E	7E		7E		

Cylinder Concentrations								
	Zero:	0.000	0.000	0.000		0.000		
	Mid:	10.93	5.018	5.019		4.999		
	High:	21.04	8.552	9.367		9.937		

Calibration Readings								
	Zero reading:	0.034	0.021	0.139		0.059		
	Mid reading:	11.05	5.172	5.042		4.987		
	High reading:	21.03	8.556	9.371		9.922		

EPA Method 7E Error Calculations								
Zero %Err:	<2.0	0.162	0.246	1.484		0.594		
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121		
High %Err:	<2.0	-0.048	0.047	0.043		-0.151		

Initial Bias Data								
	Zero reading:	0.063	0.158	0.181		0.093		
	Span reading:	10.87	5.201	4.682		4.947		
Zero % bias:	<5.0	0.299	1.848	0.448		0.342		
Span % bias:	<5.0	-0.856	0.339	-3.843		-0.403		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 1 Average Results								
17:55:00 - 18:25:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	17:56:00	14.49	3.742	4.041		1.162		
Apr 23 2026	17:57:00	14.50	3.740	4.056		1.120		
Apr 23 2026	17:58:00	14.49	3.750	4.059		1.179		
Apr 23 2026	17:59:00	14.49	3.748	4.082		1.180		
Apr 23 2026	18:00:00	14.50	3.751	4.102		1.165		
Apr 23 2026	18:01:00	14.52	3.749	4.125		1.251		
Apr 23 2026	18:02:00	14.50	3.759	4.142		1.206		
Apr 23 2026	18:03:00	14.51	3.757	4.134		1.220		
Apr 23 2026	18:04:00	14.50	3.754	4.154		1.177		
Apr 23 2026	18:05:00	14.50	3.760	4.161		1.229		
Apr 23 2026	18:06:00	14.52	3.754	4.149		1.228		
Apr 23 2026	18:07:00	14.52	3.738	4.173		1.288		
Apr 23 2026	18:08:00	14.52	3.747	4.196		1.244		
Apr 23 2026	18:09:00	14.52	3.756	4.204		1.174		
Apr 23 2026	18:10:00	14.52	3.755	4.212		1.178		
Apr 23 2026	18:11:00	14.51	3.748	4.219		1.207		
Apr 23 2026	18:12:00	14.49	3.756	4.268		1.212		
Apr 23 2026	18:13:00	14.52	3.747	4.244		1.167		
Apr 23 2026	18:14:00	14.51	3.737	4.235		1.210		
Apr 23 2026	18:15:00	14.51	3.749	4.265		1.208		
Apr 23 2026	18:16:00	14.50	3.756	4.250		1.178		
Apr 23 2026	18:17:00	14.53	3.752	4.244		1.176		
Apr 23 2026	18:18:00	14.51	3.755	4.225		1.285		
Apr 23 2026	18:19:00	14.51	3.757	4.287		1.298		
Apr 23 2026	18:20:00	14.49	3.757	4.242		1.245		
Apr 23 2026	18:21:00	14.52	3.757	4.251		1.179		
Apr 23 2026	18:22:00	14.51	3.746	4.236		1.216		
Apr 23 2026	18:23:00	14.51	3.744	4.249		1.240		
Apr 23 2026	18:24:00	14.53	3.749	4.232		1.353		
Apr 23 2026	18:25:00	14.51	3.758	4.251		1.266		
	Average:	14.51	3.751	4.190		1.215		
	Max:	14.53	3.760	4.287		1.353		
	Min:	14.49	3.737	4.041		1.120		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 1 Post run bias									
17:55:00 - 18:25:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.51	3.751	4.190		1.215			
	Max:	14.53	3.760	4.287		1.353			
	Min:	14.49	3.737	4.041		1.120			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.063	0.158	0.181		0.093			
	Span reading:	10.87	5.201	4.682		4.947			
Zero % bias:	<5.0	0.299	1.848	0.448		0.342			
Span % bias:	<5.0	-0.856	0.339	-3.843		-0.403			

Final Bias Data									
	Zero reading:	0.086	0.194	0.126		0.102			
	Span reading:	10.88	5.256	4.685		4.965			
Zero % bias:	<5.0	0.409	2.268	-0.139		0.433			
Span % bias:	<5.0	-0.808	0.982	-3.811		-0.221			
Zero % drift:	<3.0	0.109	0.421	0.587		0.091			
Span % drift:	<3.0	0.048	0.643	0.032		0.182			

Bias Corrected Averages									
	Cor Avg:	14.61	3.551	4.471		1.150			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 2 Average Results								
18:40:00 - 19:10:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	18:41:00	14.52	3.751	4.164		1.292		
Apr 23 2026	18:42:00	14.52	3.745	4.184		1.348		
Apr 23 2026	18:43:00	14.51	3.757	4.206		1.343		
Apr 23 2026	18:44:00	14.51	3.764	4.226		1.278		
Apr 23 2026	18:45:00	14.53	3.750	4.212		1.315		
Apr 23 2026	18:46:00	14.54	3.753	4.220		1.326		
Apr 23 2026	18:47:00	14.55	3.753	4.233		1.308		
Apr 23 2026	18:48:00	14.54	3.744	4.245		1.306		
Apr 23 2026	18:49:00	14.54	3.741	4.239		1.280		
Apr 23 2026	18:50:00	14.56	3.738	4.230		1.312		
Apr 23 2026	18:51:00	14.55	3.738	4.245		1.269		
Apr 23 2026	18:52:00	14.54	3.730	4.251		1.293		
Apr 23 2026	18:53:00	14.56	3.723	4.242		1.401		
Apr 23 2026	18:54:00	14.54	3.728	4.239		1.350		
Apr 23 2026	18:55:00	14.55	3.728	4.247		1.468		
Apr 23 2026	18:56:00	14.54	3.716	4.229		1.472		
Apr 23 2026	18:57:00	14.56	3.730	4.214		1.491		
Apr 23 2026	18:58:00	14.54	3.732	4.278		1.325		
Apr 23 2026	18:59:00	14.56	3.727	4.248		1.377		
Apr 23 2026	19:00:00	14.57	3.733	4.277		1.410		
Apr 23 2026	19:01:00	14.56	3.729	4.292		1.465		
Apr 23 2026	19:02:00	14.54	3.728	4.302		1.319		
Apr 23 2026	19:03:00	14.54	3.722	4.329		1.272		
Apr 23 2026	19:04:00	14.55	3.725	4.298		1.394		
Apr 23 2026	19:05:00	14.57	3.716	4.274		1.364		
Apr 23 2026	19:06:00	14.55	3.721	4.303		1.389		
Apr 23 2026	19:07:00	14.57	3.728	4.323		1.361		
Apr 23 2026	19:08:00	14.58	3.736	4.304		1.519		
Apr 23 2026	19:09:00	14.58	3.738	4.301		1.424		
Apr 23 2026	19:10:00	14.57	3.725	4.320		1.438		
	Average:	14.55	3.735	4.256		1.364		
	Max:	14.58	3.764	4.329		1.519		
	Min:	14.51	3.716	4.164		1.269		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 2 Post run bias									
18:40:00 - 19:10:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.55	3.735	4.256		1.364			
	Max:	14.58	3.764	4.329		1.519			
	Min:	14.51	3.716	4.164		1.269			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.086	0.194	0.126		0.102			
	Span reading:	10.88	5.256	4.685		4.965			
Zero % bias:	<5.0	0.409	2.268	-0.139		0.433			
Span % bias:	<5.0	-0.808	0.982	-3.811		-0.221			

Final Bias Data									
	Zero reading:	0.005	0.162	0.083		0.054			
	Span reading:	10.87	5.223	4.724		4.945			
Zero % bias:	<5.0	0.024	1.894	-0.598		-0.050			
Span % bias:	<5.0	-0.856	0.596	-3.395		-0.423			
Zero % drift:	<3.0	0.385	0.374	0.459		0.483			
Span % drift:	<3.0	0.048	0.386	0.416		0.202			

Bias Corrected Averages									
	Cor Avg:	14.64	3.526	4.529		1.317			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 3 Average Results								
19:25:00 - 19:55:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	19:26:00	14.58	3.712	4.323		1.506		
Apr 23 2026	19:27:00	14.58	3.708	4.334		1.662		
Apr 23 2026	19:28:00	14.59	3.710	4.333		1.422		
Apr 23 2026	19:29:00	14.62	3.713	4.364		1.475		
Apr 23 2026	19:30:00	14.60	3.710	4.329		1.628		
Apr 23 2026	19:31:00	14.61	3.693	4.356		1.504		
Apr 23 2026	19:32:00	14.62	3.690	4.373		1.486		
Apr 23 2026	19:33:00	14.61	3.696	4.385		1.462		
Apr 23 2026	19:34:00	14.60	3.693	4.384		1.366		
Apr 23 2026	19:35:00	14.60	3.691	4.375		1.711		
Apr 23 2026	19:36:00	14.60	3.695	4.361		1.633		
Apr 23 2026	19:37:00	14.60	3.690	4.377		1.458		
Apr 23 2026	19:38:00	14.60	3.686	4.404		1.386		
Apr 23 2026	19:39:00	14.61	3.707	4.374		1.378		
Apr 23 2026	19:40:00	14.60	3.693	4.379		1.448		
Apr 23 2026	19:41:00	14.61	3.695	4.391		1.372		
Apr 23 2026	19:42:00	14.60	3.689	4.400		1.487		
Apr 23 2026	19:43:00	14.60	3.688	4.402		1.320		
Apr 23 2026	19:44:00	14.60	3.689	4.351		1.550		
Apr 23 2026	19:45:00	14.60	3.685	4.381		1.779		
Apr 23 2026	19:46:00	14.60	3.684	4.379		1.481		
Apr 23 2026	19:47:00	14.59	3.684	4.416		1.678		
Apr 23 2026	19:48:00	14.61	3.688	4.335		1.646		
Apr 23 2026	19:49:00	14.61	3.677	4.387		1.647		
Apr 23 2026	19:50:00	14.60	3.680	4.373		1.663		
Apr 23 2026	19:51:00	14.63	3.680	4.371		1.664		
Apr 23 2026	19:52:00	14.62	3.669	4.342		1.581		
Apr 23 2026	19:53:00	14.61	3.665	4.368		1.483		
Apr 23 2026	19:54:00	14.62	3.671	4.309		1.382		
Apr 23 2026	19:55:00	14.60	3.665	4.339		1.468		
	Average:	14.60	3.690	4.367		1.524		
	Max:	14.63	3.713	4.416		1.779		
	Min:	14.58	3.665	4.309		1.320		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 3 Post run bias									
19:25:00 - 19:55:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.60	3.690	4.367		1.524			
	Max:	14.63	3.713	4.416		1.779			
	Min:	14.58	3.665	4.309		1.320			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.005	0.162	0.083		0.054			
	Span reading:	10.87	5.223	4.724		4.945			
Zero % bias:	<5.0	0.024	1.894	-0.598		-0.050			
Span % bias:	<5.0	-0.856	0.596	-3.395		-0.423			

Final Bias Data									
	Zero reading:	0.041	0.115	0.078		0.070			
	Span reading:	10.93	5.231	4.721		5.009			
Zero % bias:	<5.0	0.195	1.345	-0.651		0.111			
Span % bias:	<5.0	-0.570	0.690	-3.427		0.221			
Zero % drift:	<3.0	0.171	0.550	0.053		0.161			
Span % drift:	<3.0	0.286	0.094	0.032		0.644			

Bias Corrected Averages									
	Cor Avg:	14.65	3.502	4.635		1.487			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 4 Average Results								
20:06:00 - 20:36:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	20:07:00	14.59	3.678	4.207		1.934		
Apr 23 2026	20:08:00	14.59	3.686	4.256		1.905		
Apr 23 2026	20:09:00	14.60	3.684	4.251		1.792		
Apr 23 2026	20:10:00	14.61	3.674	4.353		1.835		
Apr 23 2026	20:11:00	14.61	3.675	4.324		1.654		
Apr 23 2026	20:12:00	14.62	3.670	4.325		1.918		
Apr 23 2026	20:13:00	14.60	3.660	4.340		1.650		
Apr 23 2026	20:14:00	14.61	3.650	4.352		1.620		
Apr 23 2026	20:15:00	14.61	3.652	4.302		1.616		
Apr 23 2026	20:16:00	14.60	3.647	4.361		1.593		
Apr 23 2026	20:17:00	14.63	3.645	4.347		1.614		
Apr 23 2026	20:18:00	14.61	3.635	4.367		1.668		
Apr 23 2026	20:19:00	14.60	3.631	4.390		1.719		
Apr 23 2026	20:20:00	14.62	3.628	4.365		1.636		
Apr 23 2026	20:21:00	14.61	3.623	4.312		1.508		
Apr 23 2026	20:22:00	14.63	3.629	4.311		1.615		
Apr 23 2026	20:23:00	14.61	3.634	4.333		1.767		
Apr 23 2026	20:24:00	14.63	3.633	4.347		1.631		
Apr 23 2026	20:25:00	14.61	3.632	4.370		1.703		
Apr 23 2026	20:26:00	14.61	3.641	4.361		1.661		
Apr 23 2026	20:27:00	14.62	3.639	4.330		1.597		
Apr 23 2026	20:28:00	14.60	3.640	4.340		1.673		
Apr 23 2026	20:29:00	14.62	3.645	4.354		1.801		
Apr 23 2026	20:30:00	14.62	3.644	4.331		1.885		
Apr 23 2026	20:31:00	14.62	3.630	4.379		1.600		
Apr 23 2026	20:32:00	14.62	3.642	4.458		1.587		
Apr 23 2026	20:33:00	14.61	3.637	4.301		1.775		
Apr 23 2026	20:34:00	14.62	3.641	4.354		1.560		
Apr 23 2026	20:35:00	14.61	3.650	4.369		1.597		
Apr 23 2026	20:36:00	14.62	3.652	4.380		1.632		
	Average:	14.61	3.648	4.339		1.692		
	Max:	14.63	3.686	4.458		1.934		
	Min:	14.59	3.623	4.207		1.508		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 4 Post run bias									
20:06:00 - 20:36:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.61	3.648	4.339		1.692			
	Max:	14.63	3.686	4.458		1.934			
	Min:	14.59	3.623	4.207		1.508			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.041	0.115	0.078		0.070			
	Span reading:	10.93	5.231	4.721		5.009			
Zero % bias:	<5.0	0.195	1.345	-0.651		0.111			
Span % bias:	<5.0	-0.570	0.690	-3.427		0.221			

Final Bias Data									
	Zero reading:	0.033	0.084	0.018		0.091			
	Span reading:	10.89	5.208	4.695		5.009			
Zero % bias:	<5.0	0.157	0.982	-1.292		0.322			
Span % bias:	<5.0	-0.760	0.421	-3.705		0.221			
Zero % drift:	<3.0	0.038	0.362	0.641		0.211			
Span % drift:	<3.0	0.190	0.269	0.277		0.000			

Bias Corrected Averages									
	Cor Avg:	14.80	3.478	4.622		1.635			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 5 Average Results								
21:00:00 - 21:30:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	21:01:00	14.52	3.693	4.471		2.742		
Apr 23 2026	21:02:00	14.56	3.649	4.695		4.159		
Apr 23 2026	21:03:00	14.54	3.654	4.395		3.306		
Apr 23 2026	21:04:00	14.54	3.657	4.379		2.968		
Apr 23 2026	21:05:00	14.54	3.655	4.387		2.994		
Apr 23 2026	21:06:00	14.55	3.653	4.422		2.978		
Apr 23 2026	21:07:00	14.56	3.651	4.469		2.876		
Apr 23 2026	21:08:00	14.55	3.652	4.437		2.841		
Apr 23 2026	21:09:00	14.55	3.648	4.468		2.950		
Apr 23 2026	21:10:00	14.56	3.647	4.481		3.104		
Apr 23 2026	21:11:00	14.54	3.641	4.534		2.821		
Apr 23 2026	21:12:00	14.54	3.650	4.534		2.805		
Apr 23 2026	21:13:00	14.56	3.645	4.485		2.893		
Apr 23 2026	21:14:00	14.55	3.633	4.503		3.080		
Apr 23 2026	21:15:00	14.54	3.643	4.475		3.010		
Apr 23 2026	21:16:00	14.55	3.638	4.434		3.029		
Apr 23 2026	21:17:00	14.56	3.640	4.355		2.971		
Apr 23 2026	21:18:00	14.53	3.655	4.388		3.344		
Apr 23 2026	21:19:00	14.53	3.651	4.422		3.213		
Apr 23 2026	21:20:00	14.55	3.640	4.347		3.168		
Apr 23 2026	21:21:00	14.54	3.647	4.361		3.197		
Apr 23 2026	21:22:00	14.53	3.648	4.375		3.161		
Apr 23 2026	21:23:00	14.55	3.639	4.359		3.279		
Apr 23 2026	21:24:00	14.54	3.639	4.452		3.265		
Apr 23 2026	21:25:00	14.54	3.617	4.386		3.343		
Apr 23 2026	21:26:00	14.55	3.629	4.437		3.321		
Apr 23 2026	21:27:00	14.52	3.611	4.345		3.135		
Apr 23 2026	21:28:00	14.54	3.600	4.439		3.205		
Apr 23 2026	21:29:00	14.53	3.603	4.409		3.437		
Apr 23 2026	21:30:00	14.56	3.588	4.358		3.396		
	Average:	14.54	3.641	4.433		3.133		
	Max:	14.56	3.693	4.695		4.159		
	Min:	14.52	3.588	4.345		2.742		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 5 Post run bias									
21:00:00 - 21:30:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.54	3.641	4.433		3.133			
	Max:	14.56	3.693	4.695		4.159			
	Min:	14.52	3.588	4.345		2.742			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.033	0.084	0.018		0.091			
	Span reading:	10.89	5.208	4.695		5.009			
Zero % bias:	<5.0	0.157	0.982	-1.292		0.322			
Span % bias:	<5.0	-0.761	0.421	-3.705		0.221			

Final Bias Data									
	Zero reading:	0.031	-0.028	0.067		0.093			
	Span reading:	10.93	5.046	4.683		5.055			
Zero % bias:	<5.0	0.147	-0.327	-0.769		0.342			
Span % bias:	<5.0	-0.570	-1.473	-3.833		0.684			
Zero % drift:	<3.0	0.010	1.310	0.523		0.020			
Span % drift:	<3.0	0.190	1.894	0.129		0.463			

Bias Corrected Averages									
	Cor Avg:	14.58	3.556	4.744		3.077			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 6 Average Results								
21:40:00 - 22:10:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	21:41:00	14.53	3.526	4.252		3.669		
Apr 23 2026	21:42:00	14.54	3.535	4.303		3.590		
Apr 23 2026	21:43:00	14.54	3.529	4.316		3.422		
Apr 23 2026	21:44:00	14.53	3.524	4.375		3.440		
Apr 23 2026	21:45:00	14.53	3.507	4.339		3.739		
Apr 23 2026	21:46:00	14.53	3.511	4.398		3.610		
Apr 23 2026	21:47:00	14.54	3.499	4.356		3.214		
Apr 23 2026	21:48:00	14.53	3.493	4.372		3.366		
Apr 23 2026	21:49:00	14.54	3.479	4.378		3.303		
Apr 23 2026	21:50:00	14.54	3.489	4.410		3.392		
Apr 23 2026	21:51:00	14.55	3.481	4.416		3.319		
Apr 23 2026	21:52:00	14.56	3.463	4.352		3.233		
Apr 23 2026	21:53:00	14.54	3.468	4.424		3.241		
Apr 23 2026	21:54:00	14.54	3.463	4.388		3.365		
Apr 23 2026	21:55:00	14.54	3.449	4.438		3.187		
Apr 23 2026	21:56:00	14.56	3.432	4.351		3.403		
Apr 23 2026	21:57:00	14.58	3.436	4.377		3.264		
Apr 23 2026	21:58:00	14.57	3.425	4.382		3.220		
Apr 23 2026	21:59:00	14.54	3.424	4.393		3.272		
Apr 23 2026	22:00:00	14.54	3.428	4.455		3.346		
Apr 23 2026	22:01:00	14.57	3.437	4.352		3.386		
Apr 23 2026	22:02:00	14.55	3.417	4.408		3.358		
Apr 23 2026	22:03:00	14.56	3.417	4.430		3.245		
Apr 23 2026	22:04:00	14.57	3.436	4.382		3.264		
Apr 23 2026	22:05:00	14.56	3.451	4.375		3.481		
Apr 23 2026	22:06:00	14.55	3.444	4.375		3.238		
Apr 23 2026	22:07:00	14.53	3.447	4.387		3.146		
Apr 23 2026	22:08:00	14.54	3.447	4.421		3.359		
Apr 23 2026	22:09:00	14.54	3.455	4.395		3.303		
Apr 23 2026	22:10:00	14.55	3.457	4.386		3.345		
	Average:	14.55	3.466	4.380		3.357		
	Max:	14.58	3.535	4.455		3.739		
	Min:	14.53	3.417	4.252		3.146		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 6 Post run bias									
21:40:00 - 22:10:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.55	3.466	4.380		3.357			
	Max:	14.58	3.535	4.455		3.739			
	Min:	14.53	3.417	4.252		3.146			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.031	-0.028	0.067		0.093			
	Span reading:	10.93	5.046	4.683		5.055			
Zero % bias:	<5.0	0.147	-0.327	-0.769		0.342			
Span % bias:	<5.0	-0.570	-1.473	-3.833		0.684			

Final Bias Data									
	Zero reading:	0.049	0.053	0.054		0.085			
	Span reading:	10.91	5.091	4.692		5.026			
Zero % bias:	<5.0	0.233	0.631	-0.907		0.262			
Span % bias:	<5.0	-0.665	-0.947	-3.737		0.393			
Zero % drift:	<3.0	0.086	0.959	0.138		0.080			
Span % drift:	<3.0	0.095	0.526	0.096		0.292			

Bias Corrected Averages									
	Cor Avg:	14.58	3.427	4.685		3.299			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 7 Average Results								
22:22:00 - 22:52:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	22:23:00	14.53	3.629	4.182		3.819		
Apr 23 2026	22:24:00	14.55	3.620	4.308		3.636		
Apr 23 2026	22:25:00	14.56	3.627	4.294		3.726		
Apr 23 2026	22:26:00	14.55	3.630	4.338		3.623		
Apr 23 2026	22:27:00	14.55	3.612	4.388		3.601		
Apr 23 2026	22:28:00	14.56	3.611	4.357		3.549		
Apr 23 2026	22:29:00	14.56	3.607	4.430		3.557		
Apr 23 2026	22:30:00	14.56	3.611	4.393		3.354		
Apr 23 2026	22:31:00	14.55	3.608	4.404		3.276		
Apr 23 2026	22:32:00	14.58	3.604	4.385		3.387		
Apr 23 2026	22:33:00	14.56	3.607	4.432		3.412		
Apr 23 2026	22:34:00	14.56	3.596	4.401		3.311		
Apr 23 2026	22:35:00	14.55	3.596	4.475		3.403		
Apr 23 2026	22:36:00	14.55	3.602	4.446		3.367		
Apr 23 2026	22:37:00	14.57	3.602	4.417		3.493		
Apr 23 2026	22:38:00	14.57	3.602	4.407		3.565		
Apr 23 2026	22:39:00	14.56	3.604	4.401		3.396		
Apr 23 2026	22:40:00	14.57	3.609	4.338		3.256		
Apr 23 2026	22:41:00	14.56	3.599	4.365		3.523		
Apr 23 2026	22:42:00	14.55	3.601	4.408		3.758		
Apr 23 2026	22:43:00	14.55	3.605	4.389		3.487		
Apr 23 2026	22:44:00	14.56	3.611	4.386		3.640		
Apr 23 2026	22:45:00	14.56	3.594	4.366		3.610		
Apr 23 2026	22:46:00	14.56	3.614	4.395		3.510		
Apr 23 2026	22:47:00	14.56	3.617	4.422		3.609		
Apr 23 2026	22:48:00	14.56	3.609	4.435		3.382		
Apr 23 2026	22:49:00	14.56	3.609	4.371		3.553		
Apr 23 2026	22:50:00	14.55	3.614	4.406		3.548		
Apr 23 2026	22:51:00	14.57	3.625	4.448		3.627		
Apr 23 2026	22:52:00	14.56	3.623	4.441		3.474		
	Average:	14.56	3.610	4.388		3.515		
	Max:	14.58	3.630	4.475		3.819		
	Min:	14.53	3.594	4.182		3.256		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 7 Post run bias									
22:22:00 - 22:52:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.56	3.610	4.388		3.515			
	Max:	14.58	3.630	4.475		3.819			
	Min:	14.53	3.594	4.182		3.256			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.049	0.054	0.054		0.085			
	Span reading:	10.91	5.091	4.692		5.026			
Zero % bias:	<5.0	0.233	0.631	-0.907		0.262			
Span % bias:	<5.0	-0.665	-0.947	-3.737		0.393			

Final Bias Data									
	Zero reading:	0.008	0.072	0.051		0.119			
	Span reading:	10.89	5.164	4.694		5.080			
Zero % bias:	<5.0	0.038	0.842	-0.940		0.604			
Span % bias:	<5.0	-0.761	-0.094	-3.715		0.936			
Zero % drift:	<3.0	0.195	0.210	0.032		0.342			
Span % drift:	<3.0	0.095	0.854	0.022		0.544			

Bias Corrected Averages									
	Cor Avg:	14.61	3.514	4.689		3.447			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 8 Average Results								
23:05:00 - 23:35:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	23:06:00	14.55	3.672	4.318		3.802		
Apr 23 2026	23:07:00	14.55	3.668	4.368		3.670		
Apr 23 2026	23:08:00	14.56	3.682	4.331		3.579		
Apr 23 2026	23:09:00	14.56	3.673	4.371		3.578		
Apr 23 2026	23:10:00	14.55	3.675	4.419		3.417		
Apr 23 2026	23:11:00	14.57	3.683	4.374		3.594		
Apr 23 2026	23:12:00	14.55	3.678	4.413		3.578		
Apr 23 2026	23:13:00	14.55	3.664	4.369		3.445		
Apr 23 2026	23:14:00	14.55	3.669	4.399		3.329		
Apr 23 2026	23:15:00	14.55	3.659	4.392		3.662		
Apr 23 2026	23:16:00	14.56	3.654	4.416		3.778		
Apr 23 2026	23:17:00	14.56	3.644	4.363		3.709		
Apr 23 2026	23:18:00	14.55	3.655	4.403		3.408		
Apr 23 2026	23:19:00	14.55	3.656	4.443		3.373		
Apr 23 2026	23:20:00	14.57	3.648	4.367		3.542		
Apr 23 2026	23:21:00	14.55	3.651	4.458		3.384		
Apr 23 2026	23:22:00	14.58	3.654	4.372		3.568		
Apr 23 2026	23:23:00	14.55	3.637	4.435		3.489		
Apr 23 2026	23:24:00	14.55	3.652	4.402		3.551		
Apr 23 2026	23:25:00	14.56	3.656	4.430		3.440		
Apr 23 2026	23:26:00	14.57	3.655	4.448		3.325		
Apr 23 2026	23:27:00	14.56	3.643	4.455		3.460		
Apr 23 2026	23:28:00	14.57	3.643	4.450		3.373		
Apr 23 2026	23:29:00	14.57	3.651	4.451		3.385		
Apr 23 2026	23:30:00	14.55	3.658	4.434		3.432		
Apr 23 2026	23:31:00	14.57	3.649	4.463		3.272		
Apr 23 2026	23:32:00	14.56	3.658	4.441		3.378		
Apr 23 2026	23:33:00	14.55	3.656	4.441		3.496		
Apr 23 2026	23:34:00	14.55	3.648	4.407		3.572		
Apr 23 2026	23:35:00	14.55	3.652	4.416		3.507		
	Average:	14.56	3.658	4.408		3.503		
	Max:	14.58	3.683	4.463		3.802		
	Min:	14.55	3.637	4.318		3.272		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 8 Post run bias									
23:05:00 - 23:35:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.56	3.658	4.408		3.503			
	Max:	14.58	3.683	4.463		3.802			
	Min:	14.55	3.637	4.318		3.272			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.008	0.072	0.051		0.119			
	Span reading:	10.89	5.164	4.694		5.080			
Zero % bias:	<5.0	-0.124	0.842	-0.940		0.604			
Span % bias:	<5.0	-0.761	-0.094	-3.715		0.936			

Final Bias Data									
	Zero reading:	0.041	0.072	0.084		0.108			
	Span reading:	10.94	5.209	4.682		5.051			
Zero % bias:	<5.0	0.195	0.842	-0.587		0.493			
Span % bias:	<5.0	-0.523	0.433	-3.843		0.644			
Zero % drift:	<3.0	0.319	0.000	0.352		0.111			
Span % drift:	<3.0	0.238	0.526	0.128		0.292			

Bias Corrected Averages									
	Cor Avg:	14.59	3.518	4.716		3.423			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 9 Average Results								
23:50:00 - 00:20:00								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 23 2026	23:51:00	14.53	3.715	4.338		3.440		
Apr 23 2026	23:52:00	14.55	3.721	4.350		3.527		
Apr 23 2026	23:53:00	14.54	3.714	4.363		3.480		
Apr 23 2026	23:54:00	14.56	3.726	4.435		3.458		
Apr 23 2026	23:55:00	14.57	3.722	4.395		3.509		
Apr 23 2026	23:56:00	14.55	3.719	4.403		3.455		
Apr 23 2026	23:57:00	14.55	3.723	4.413		3.420		
Apr 23 2026	23:58:00	14.55	3.723	4.406		3.516		
Apr 23 2026	23:59:00	14.56	3.717	4.431		3.279		
Apr 24 2026	00:00:00	14.53	3.718	4.462		3.314		
Apr 24 2026	00:01:00	14.56	3.719	4.419		3.420		
Apr 24 2026	00:02:00	14.57	3.718	4.398		3.380		
Apr 24 2026	00:03:00	14.56	3.724	4.457		3.341		
Apr 24 2026	00:04:00	14.57	3.724	4.404		3.329		
Apr 24 2026	00:05:00	14.56	3.720	4.384		3.707		
Apr 24 2026	00:06:00	14.55	3.711	4.407		3.617		
Apr 24 2026	00:07:00	14.57	3.715	4.356		3.522		
Apr 24 2026	00:08:00	14.56	3.725	4.370		3.462		
Apr 24 2026	00:09:00	14.56	3.712	4.399		3.580		
Apr 24 2026	00:10:00	14.57	3.716	4.388		3.679		
Apr 24 2026	00:11:00	14.57	3.728	4.424		3.564		
Apr 24 2026	00:12:00	14.57	3.723	4.383		3.485		
Apr 24 2026	00:13:00	14.56	3.713	4.433		3.544		
Apr 24 2026	00:14:00	14.55	3.718	4.375		3.470		
Apr 24 2026	00:15:00	14.56	3.722	4.374		3.430		
Apr 24 2026	00:16:00	14.56	3.731	4.431		3.516		
Apr 24 2026	00:17:00	14.54	3.730	4.425		3.481		
Apr 24 2026	00:18:00	14.56	3.732	4.366		3.363		
Apr 24 2026	00:19:00	14.57	3.744	4.447		3.424		
Apr 24 2026	00:20:00	14.56	3.730	4.398		3.435		
	Average:	14.56	3.722	4.401		3.472		
	Max:	14.57	3.744	4.462		3.707		
	Min:	14.53	3.711	4.338		3.279		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 9 Post run bias									
23:50:00 - 00:20:00									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.56	3.722	4.401		3.472			
	Max:	14.57	3.744	4.462		3.707			
	Min:	14.53	3.711	4.338		3.279			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.041	0.072	0.084		0.108			
	Span reading:	10.94	5.209	4.682		5.051			
Zero % bias:	<5.0	0.195	0.842	-0.587		0.493			
Span % bias:	<5.0	-0.523	0.433	-3.843		0.644			

Final Bias Data									
	Zero reading:	0.046	0.139	0.070		0.089			
	Span reading:	10.94	5.263	4.669		5.002			
Zero % bias:	<5.0	0.219	1.625	-0.737		0.302			
Span % bias:	<5.0	-0.523	1.064	-3.982		0.151			
Zero % drift:	<3.0	0.024	0.783	0.150		0.191			
Span % drift:	<3.0	0.000	0.631	0.139		0.493			

Bias Corrected Averages									
	Cor Avg:	14.56	3.537	4.720		3.422			



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 10 Average Results								
00:31:01 - 01:01:01								
	Name:	O2	CO2	NOx		CO		
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i		
Apr 24 2026	00:32:01	14.54	3.731	4.282		3.640		
Apr 24 2026	00:33:01	14.55	3.746	4.308		3.542		
Apr 24 2026	00:34:01	14.56	3.739	4.292		3.518		
Apr 24 2026	00:35:01	14.55	3.756	4.341		3.506		
Apr 24 2026	00:36:01	14.55	3.758	4.335		3.503		
Apr 24 2026	00:37:01	14.55	3.744	4.355		3.462		
Apr 24 2026	00:38:01	14.54	3.770	4.363		3.569		
Apr 24 2026	00:39:01	14.55	3.779	4.383		3.488		
Apr 24 2026	00:40:01	14.56	3.766	4.326		3.490		
Apr 24 2026	00:41:01	14.56	3.765	4.390		3.526		
Apr 24 2026	00:42:01	14.54	3.755	4.375		3.806		
Apr 24 2026	00:43:01	14.55	3.759	4.386		3.504		
Apr 24 2026	00:44:01	14.56	3.757	4.386		3.689		
Apr 24 2026	00:45:01	14.55	3.747	4.392		3.545		
Apr 24 2026	00:46:01	14.56	3.759	4.355		3.660		
Apr 24 2026	00:47:01	14.56	3.764	4.404		3.605		
Apr 24 2026	00:48:01	14.55	3.766	4.374		3.619		
Apr 24 2026	00:49:01	14.56	3.766	4.389		3.700		
Apr 24 2026	00:50:01	14.56	3.779	4.386		3.456		
Apr 24 2026	00:51:01	14.56	3.770	4.344		3.416		
Apr 24 2026	00:52:01	14.55	3.770	4.440		3.677		
Apr 24 2026	00:53:01	14.56	3.777	4.401		3.385		
Apr 24 2026	00:54:01	14.57	3.782	4.392		3.424		
Apr 24 2026	00:55:01	14.56	3.779	4.383		3.311		
Apr 24 2026	00:56:01	14.55	3.765	4.402		3.558		
Apr 24 2026	00:57:01	14.56	3.778	4.386		3.660		
Apr 24 2026	00:58:01	14.57	3.773	4.359		3.438		
Apr 24 2026	00:59:01	14.57	3.775	4.366		3.473		
Apr 24 2026	01:00:01	14.56	3.778	4.387		3.609		
Apr 24 2026	01:01:01	14.56	3.780	4.412		3.440		
	Average:	14.56	3.764	4.370		3.541		
	Max:	14.57	3.782	4.440		3.806		
	Min:	14.54	3.731	4.282		3.311		



MAQDAQ 0.90 Beta			
Project Name: Midway Sunset Cogeneration	Project Number: Proj-066225	CEMS Operator: JP	Unit/Condition: Unit C
Run Length: 30	Record Interval: 6	Average Interval: 60	Triplicate Sampling: False
Traverse: False	Ports: N/A	Points per port: N/A	DAQ Device: DT9803(00)

Run 10 Post run bias									
00:31:01 - 01:01:01									
	Name:	O2	CO2	NOx		CO			
	Make/Model:	CAI 700	CAI 700	CAI 700		TECO 48i			
	25A or 7E:	7E	7E	7E		7E			

Run summary data									
	Raw Avg:	14.56	3.764	4.370		3.541			
	Max:	14.57	3.782	4.440		3.806			
	Min:	14.54	3.731	4.282		3.311			

Cylinder Concentrations									
	Zero:	0.000	0.000	0.000		0.000			
	Mid:	10.93	5.018	5.019		4.999			
	High:	21.04	8.552	9.367		9.937			

Calibration Readings									
	Zero reading:	0.034	0.021	0.139		0.059			
	Mid reading:	11.05	5.172	5.042		4.987			
	High reading:	21.03	8.556	9.371		9.922			

EPA Method 7E Error Calculations									
Zero %Err:	<2.0	0.162	0.246	1.484		0.594			
Mid %Err:	<2.0	0.570	1.801	0.246		-0.121			
High %Err:	<2.0	-0.048	0.047	0.043		-0.151			

Initial Bias Data									
	Zero reading:	0.046	0.139	0.070		0.089			
	Span reading:	10.94	5.263	4.669		5.002			
Zero % bias:	<5.0	0.219	1.625	-0.737		0.302			
Span % bias:	<5.0	-0.523	1.064	-3.982		0.151			

Final Bias Data									
	Zero reading:	0.025	0.193	0.053		0.071			
	Span reading:	10.94	5.248	4.660		5.001			
Zero % bias:	<5.0	0.119	2.257	-0.918		0.121			
Span % bias:	<5.0	-0.523	0.889	-4.078		0.141			
Zero % drift:	<3.0	0.100	0.631	0.181		0.181			
Span % drift:	<3.0	0.000	0.175	0.096		0.010			

Bias Corrected Averages									
	Cor Avg:	14.56	3.547	4.697		3.516			

Appendix A.3

Emission Calculations/Results

COMPLIANCE DETERMINATION
Midway Sunset Cogeneration
Unit C

Test No.	Run 1	Run 2	Run 3	Average
Date	4/23/26	4/23/26	4/23/26	--
Start Time	1755-1825	1840-1910	1925-1955	--
Reference temperature, °F	68.0	68.0	68.0	68.0
Unit load, MW	82.3	83.3	84.1	83.2
Unit fuel flow @ 60 °F, scfh	914,876	925,766	931,328	923,990
"F _d " factor @ 68 °F, dscf/MMBtu	8,622	8,622	8,622	8,622
"F _d " factor @ T _{ref} °F, dscf/MMBtu	8,622	8,622	8,622	8,622
HHV @ 60 °F, btu/scf	1,026	1,026	1,026	1,026
Stack flow rate - based on fuel, dscfm	448,190	455,698	459,170	454,353
O ₂ , % volume dry	14.61	14.64	14.65	14.6
CO ₂ , % volume dry	3.55	3.53	3.50	3.53
CO, ppm volume dry	1.15	1.32	1.49	1.32
CO, ppm dry @ 15% O ₂	1.08	1.24	1.41	1.24
CO, lb/hr	2.25	2.62	2.98	2.62
CO, lb/MMBtu	0.002	0.003	0.003	0.003
NO _x , ppm volume dry	4.47	4.53	4.64	4.55
NO _x , ppm dry @ 15% O ₂	4.19	4.27	4.38	4.28
NO _x , lb/hr as NO ₂	14.36	14.79	15.26	14.80
NO _x , lb/MMBtu as NO ₂	0.015	0.016	0.016	0.016
VOC, ppm volume dry	<0.50	<0.50	<0.50	<0.50
VOC, ppm @ 15% O ₂	<0.47	<0.47	<0.47	<0.47
VOC, lb/hr as CH ₄	<0.56	<0.57	<0.57	<0.57
VOC, lb/MMBtu as CH ₄	<0.001	<0.001	<0.001	<0.001
SO ₂ , gr/100 scf	0.036	0.036	0.036	0.036
SO ₂ , ppm volume dry	0.02	0.02	0.02	0.02
SO ₂ , ppm dry @ 15% O ₂	0.02	0.02	0.02	0.02
SO ₂ , lb/hr	0.09	0.10	0.10	0.09
SO ₂ , lb/MMBtu	0.0001	0.0001	0.0001	0.0001

Gas Turbine Efficiency Calculations **Gas Components**

Client: Midway Sunset Cogeneration
Source: Unit C

Date: 4/23/2026

Parameter	Run 1	Run 2	Run 3	Average
HHV	1,026	1,026	1,026	1,026
Unit Fuel Flow, scfh	914,876	925,766	931,328	923,990
Gas Turbine Efficiency (EFF ₁)	29.9	29.9	30.0	30.0
Mega Watts (MW)	82.3	83.3	84.1	83.2
Equations: $EFF_1 = 3412 \text{ Btu/kwh} / (\text{Btu/ft}^3 \times \text{scfh} / (\text{MW} \times 1000)) \times 100$				

Appendix A.4

RATA Calculations/Results

RELATIVE ACCURACY TEST AUDIT DETERMINATION **Midway Sunset Cogeneration** **Unit C**

Test No.	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8	Run 9	Run 10	Average
Date	4/23/26	4/23/26	4/23/26	4/23/26	4/23/26	4/23/26	4/23/26	4/23/26	4/24/26	4/24/26	Runs 1-10
Start Time	1755-1825	1840-1910	1925-1955	2006-2036	2100-2130	2140-2210	2222-2252	2305-2335	2350-0020	0031-0101	--
Reference temperature, °F	68.00	68.00	68.00	68.00	68.00	68.00	68.00	68.00	68.00	68.00	68.00
Unit load, MW	82.3	83.3	84.1	84.3	77.1	76.8	76.9	76.8	76.9	76.9	79.5
Unit fuel flow @ 60 °F, scfh	914,876	925,766	931,328	933,328	863,141	860,448	860,955	860,821	861,507	860,724	887,289
"F _d " factor @ 68 °F, dscf/MMBtu	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622
"F _d " factor @ T _{ref} °F, dscf/MMBtu	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622	8,622
HHV @ 60 °F, btu/scf	1,026	1,026	1,026	1,026	1,026	1,026	1,026	1,026	1,026	1,026	1,026
Stack flow rate - based on fuel, dscfm	448,190	455,698	459,169	471,471	420,838	419,525	421,774	420,372	418,716	418,336	435,409
O ₂ , % volume dry	14.61	14.64	14.65	14.80	14.58	14.58	14.61	14.59	14.56	14.56	14.62
CO ₂ , % volume dry	3.55	3.53	3.50	3.48	3.56	3.43	3.51	3.52	3.54	3.55	3.52
CO, ppm volume dry	1.15	1.32	1.49	1.64	3.08	3.30	3.45	3.42	3.42	3.52	2.58
CO, ppm dry @ 15% O ₂	1.08	1.24	1.40	1.58	2.87	3.08	3.23	3.20	3.18	3.27	2.41
CO, lb/hr	2.25	2.62	2.98	3.36	5.65	6.04	6.34	6.28	6.25	6.41	4.82
CO, lb/day (24 hours)	54.0	62.8	71.5	80.7	135.5	144.9	152.2	150.6	150.0	154.0	115.6
CO, lb/MMBtu	0.002	0.003	0.003	0.004	0.006	0.007	0.007	0.007	0.007	0.007	0.005
NO _x , ppm volume dry	4.47	4.53	4.64	4.62	4.74	4.69	4.69	4.72	4.72	4.70	4.65
NO _x , ppm dry @ 15% O ₂	4.19	4.27	4.38	4.47	4.43	4.37	4.40	4.41	4.39	4.37	4.37
NO _x , lb/hr as NO ₂	14.36	14.79	15.25	15.61	14.30	14.08	14.17	14.20	14.16	14.08	14.50
NO _x , lb/day (24 hours) as NO ₂	345	355	366	375	343	338	340	341	340	338	348
NO _x , lb/MMBtu as NO ₂	0.015	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
VOC, ppm volume dry	<0.50	<0.50	<0.50								0.50
VOC, ppm @ 15% O ₂	<0.47	<0.47	<0.47								0.47
VOC, lb/hr as CH ₄	<0.56	<0.57	<0.57								0.57
VOC, lb/day as CH ₄	<13.4	<13.7	<13.8								13.62
VOC, lb/MMBtu as CH ₄	<0.0006	<0.0006	<0.0006								0.001
SO ₂ , gr/100 scf	0.036	0.036	0.036								0.04
SO ₂ , ppm volume dry	0.02	0.02	0.02								0.02
SO ₂ , ppm dry @ 15% O ₂	0.02	0.02	0.02								0.02
SO ₂ , lb/hr	0.09	0.10	0.10								0.09
SO ₂ , lb/day (24 hours)	2.26	2.28	2.30								2.28
SO ₂ , lb/MMBtu	0.0001	0.0001	0.0001								0.0001

RELATIVE ACCURACY TEST AUDIT DETERMINATION

EPA CFR 40, PART 60, APPENDIX B, PS 3

Midway Sunset Cogeneration

Unit C

O₂, % volume dry

Run #	Date	Time	RM	CEMS	Difference	n	t _{0.975}
Run 1	4/23/26	1755-1825	14.61	14.71	-0.097	1	100.00
Run 2	4/23/26	1840-1910	14.64	14.71	-0.067	2	12.706
Run 3	4/23/26	1925-1955	14.65	14.70	-0.050	3	4.303
Run 4	4/23/26	2006-2036	14.80	14.70	0.097	4	3.182
Run 5	4/23/26	2100-2130	14.58	14.64	-0.061	5	2.776
Run 6	4/23/26	2140-2210	14.58	14.61	-0.034	6	2.571
Run 7	4/23/26	2222-2252	14.61	14.60	0.007	7	2.447
Run 8	4/23/26	2305-2335	14.59	14.62	-0.027	8	2.365
Run 9	4/24/26	2350-0020	14.56	14.60	-0.043	9	2.306
Run 10	4/24/26	0031-0101	14.56	14.61	-0.047	10	2.262
AVERAGES:			14.62	14.64	-0.025		
STANDARD DEVIATION:					0.050		
CONFIDENCE COEFFICIENT:					0.039		
RELATIVE ACCURACY (BASED ON ABSOLUTE DIFFERENCE), %:							
						Criteria	Result
						≤1	0.03

Note: The relative accuracy (RA) of the CEMS must be no greater than 1.0 percent O₂.

RELATIVE ACCURACY TEST AUDIT DETERMINATION

EPA CFR 40, PART 60, APPENDIX B, PS 3

Midway Sunset Cogeneration

Unit C

CO₂, % volume dry

<u>Run #</u>	<u>Date</u>	<u>Time</u>	<u>RM</u>	<u>CEMS</u>	<u>Difference</u>	<u>n</u>	<u>t_{0.975}</u>
Run 1	4/23/26	1755-1825	3.55	3.40	0.151	1	100.00
Run 2	4/23/26	1840-1910	3.53	3.40	0.126	2	12.706
Run 3	4/23/26	1925-1955	3.50	3.38	0.119	3	4.303
Run 4	4/23/26	2006-2036	3.48	3.32	0.154	4	3.182
Run 5	4/23/26	2100-2130	3.56	3.40	0.156	5	2.776
Run 6	4/23/26	2140-2210	3.43	3.40	0.027	6	2.571
Run 7	4/23/26	2222-2252	3.51	3.40	0.114	7	2.447
Run 8	4/23/26	2305-2335	3.52	3.40	0.118	8	2.365
Run 9	4/24/26	2350-0020	3.54	3.40	0.137	9	2.306
Run 10	4/24/26	0031-0101	3.55	3.40	0.147	10	2.262
AVERAGES:			3.51	3.39	0.121		
STANDARD DEVIATION:					0.038		
CONFIDENCE COEFFICIENT:					0.030		
RELATIVE ACCURACY (BASED ON ABSOLUTE DIFFERENCE), %:							
						<u>Criteria</u>	<u>Result</u>
						≤1	0.12

Note: The relative accuracy (RA) of the CEMS must be no greater than 1.0 percent CO₂.

RELATIVE ACCURACY TEST AUDIT DETERMINATION

EPA CFR 40, PART 60, APPENDIX B, PS 2

Midway Sunset Cogeneration

Unit C

NO_x, ppm @ 15% O₂

Run #	Date	Time	RM	CEMS	Difference	n	t _{0.975}						
Run 1	4/23/26	1755-1825	4.19	4.27	-0.079	1	100.00						
Run 2	4/23/26	1840-1910	4.27	4.28	-0.011	2	12.706						
Run 3	4/23/26	1925-1955	4.38	4.28	0.096	3	4.303						
Run 4	4/23/26	2006-2036	4.47	4.27	0.201	4	3.182						
Run 5	4/23/26	2100-2130	4.43	4.33	0.094	5	2.776						
Run 6	4/23/26	2140-2210	4.37	4.29	0.087	6	2.571						
Run 7	4/23/26	2222-2252	4.40	4.27	0.126	7	2.447						
Run 8	4/23/26	2305-2335	4.41	4.29	0.120	8	2.365						
Run 9	4/24/26	2350-0020	4.39	4.29	0.099	9	2.306						
Run 10	4/24/26	0031-0101	4.37	4.28	0.092	10	2.262						
AVERAGES:			4.39	4.29	0.101	> 50% of limit, must use RM criteria							
EMISSION LIMIT:					5.00								
STANDARD DEVIATION:					0.055	<table><tr><th>Criteria</th><th>Result</th></tr><tr><td>≤20</td><td>3.25</td></tr><tr><td>≤10</td><td>2.85</td></tr></table>		Criteria	Result	≤20	3.25	≤10	2.85
Criteria	Result												
≤20	3.25												
≤10	2.85												
CONFIDENCE COEFFICIENT:					0.042								
RELATIVE ACCURACY (BASED ON REFERENCE METHOD), %:													
RELATIVE ACCURACY (BASED ON APPLICABLE STANDARD), %:													

Note: The relative accuracy (RA) of the CEMS must be no greater than 20 percent when the reference method (RM) is used in the denominator of Equation 2-6 (the average emissions during the test are greater than 50 percent of the emission standard) or 10 percent when the applicable standard (AS) is used in the denominator of Equation 2-6 (the average emissions during the test are less than 50 percent of the emission standard).

RELATIVE ACCURACY TEST AUDIT DETERMINATION

EPA CFR 40, PART 60, APPENDIX B, PS 2 / 6

Midway Sunset Cogeneration

Unit C

NO_x, lb/hr

Run #	Date	Time	RM	CEMS	Difference	n	t _{0.975}						
Run 1	4/23/26	1755-1825	14.36	14.79	-0.430	1	100.00						
Run 2	4/23/26	1840-1910	14.79	15.08	-0.290	2	12.706						
Run 3	4/23/26	1925-1955	15.25	15.20	0.047	3	4.303						
Run 4	4/23/26	2006-2036	15.64	15.09	0.522	4	3.182						
Run 5	4/23/26	2100-2130	14.30	14.25	0.051	5	2.776						
Run 6	4/23/26	2140-2210	14.08	14.12	-0.040	6	2.571						
Run 7	4/23/26	2222-2252	14.17	14.13	0.037	7	2.447						
Run 8	4/23/26	2305-2335	14.20	14.17	0.037	8	2.365						
Run 9	4/24/26	2350-0020	14.16	14.20	-0.038	9	2.306						
Run 10	4/24/26	0031-0101	14.08	14.18	-0.099	10	2.262						
AVERAGES:			14.38	14.46	-0.081	> 50% of limit,							
EMISSION LIMIT:					17.66	<u>must use RM criteria</u>							
STANDARD DEVIATION:					0.170	<table><tr><th><u>Criteria</u></th><th><u>Result</u></th></tr><tr><td>≤20</td><td>1.47</td></tr><tr><td>≤10</td><td>1.20</td></tr></table>		<u>Criteria</u>	<u>Result</u>	≤20	1.47	≤10	1.20
<u>Criteria</u>	<u>Result</u>												
≤20	1.47												
≤10	1.20												
CONFIDENCE COEFFICIENT:					0.131								
RELATIVE ACCURACY (BASED ON REFERENCE METHOD), %:													
RELATIVE ACCURACY (BASED ON APPLICABLE STANDARD), %:													

Note: Since this unit incorporates the total equipment required for the determining and recording the pollutant mass emission rate (in terms of mass per unit of time), the unit is technically defined as a continuous emissions rate monitoring system (CERMS) and is subject to Performance Specification (PS) 6. The relative accuracy (RA) of the CERMS shall be no greater than 20 percent of the mean value of the reference method (RM) test data in terms of the units of the emission standard, or 10 percent of the applicable standard (AS), whichever is greater.

RELATIVE ACCURACY TEST AUDIT DETERMINATION

EPA CFR 40, PART 60, APPENDIX B, PS 4/4A

Midway Sunset Cogeneration

Unit C

CO, ppm @ 15% O₂

Run #	Date	Time	RM	CEMS	Difference	n	t _{0.975}
Run 1	4/23/26	1755-1825	1.08	0.54	0.572	1	100.00
Run 2	4/23/26	1840-1910	1.24	0.61	0.631	2	12.706
Run 3	4/23/26	1925-1955	1.40	0.73	0.669	3	4.303
Run 4	4/23/26	2006-2036	1.58	0.84	0.740	4	3.182
Run 5	4/23/26	2100-2130	2.87	2.11	0.766	5	2.776
Run 6	4/23/26	2140-2210	3.08	2.28	0.804	6	2.571
Run 7	4/23/26	2222-2252	3.23	2.40	0.830	7	2.447
Run 8	4/23/26	2305-2335	3.20	2.42	0.783	8	2.365
Run 9	4/24/26	2350-0020	3.18	2.40	0.781	9	2.306
Run 10	4/24/26	0031-0101	3.27	2.46	0.810	10	2.262
AVERAGES:			2.56	1.81	0.757	<u>choose only one of the three available criteria</u>	
EMISSION LIMIT:					25.00		
STANDARD DEVIATION:					0.067		
CONFIDENCE COEFFICIENT:					0.051		
RELATIVE ACCURACY (BASED ON REFERENCE METHOD), %:						<u>Criteria</u>	<u>Result</u>
RELATIVE ACCURACY (BASED ON APPLICABLE STANDARD), %:						≤10	31.5
RELATIVE ACCURACY (BASED ON DIFFERENCE), PPM:					- 4A only -	≤5	0.81

Note: Performance Specification (PS) 4 is to be used on sources operating above 200 ppm analyzer span and PS 4A on sources operating below 200 ppm analyzer span. The relative accuracy (RA) of the CEMS must be no greater than 10 percent when the average reference method (RM) value is used to calculate RA, 5 percent when the applicable standard (AS) is used to calculate RA, or within 5 ppm (to be used with PS 4A only) when the RA is calculated as the absolute average difference between the RM and CEMS plus the 2.5 percent confidence coefficient.

Appendix A.5

Example Calculations

EXAMPLE CALCULATIONS GASEOUS EMISSIONS

Project name: Midway Sunset
 Computed by: J. Polthamus
 Run number: Unit C, Run 1

Project number: Proj-066225
 Calculation date: 2026-04-23
 Gaseous Species: NO_x

EMISSIONS DATA

Reference temperature, °R	<u>528</u>	$T_{ref} = (°F \text{ plus } 460)$
Concentration of gaseous species, ppmvd	<u>4.47</u>	C
Dry stack gas flow rate at standard conditions, dscfm	<u>448,190</u>	Q_{ds}
Stack O ₂ , % volume dry	<u>14.61</u>	O_2
"F" factor of fuel based on O ₂ , dscf/MMBtu @ 0% O ₂	<u>8,622</u>	F_d
Molecular weight of gaseous species, lb/lb-mol	<u>46.01</u>	MW_S , where
$MW_S =$ <u>28.01</u> for CO <u>46.01</u> for NO _x as NO ₂ <u>64.06</u> for SO _x as SO ₂		
Conversion factor from ppm to lb/scf for Tref	<u>1.19E-07</u>	CF where
$\frac{1.194E-07}{(lb/scf) / ppm}$ for NO _x $\frac{1.194E-07}{(lb/scf) / ppm} \times MW_x / MW_{NOX}$ for other compounds (x)		

1 GASEOUS EMISSIONS

a. Concentration, ppm @ 15% O₂

$$C_{15} = C \frac{(20.9 - 15)}{(20.9 - \%O_2)}$$

$$C_{15} = 4.47 \times \frac{(20.9 - 15)}{(20.9 - 14.61)}$$

$$C_{15} = \underline{4.19} \text{ ppm @ 15\% O}_2$$

Note: The results calculated on these pages may differ slightly from the results presented in the final report. This difference can be attributed to "significant digit round-off errors" common when comparing computer spreadsheets results with those derived from using a calculator.

b. Mass emission rate, lb/hr

$$M = (C)(CF)(Q_{ds})(60 \text{ min/hr})$$

$$M = (4.47)(1.19E-07)(448,190)(60)$$

$$M = \underline{14.35} \text{ lb/hr}$$

c. Mass emission rate, lb/day

$$M' = (M)(24 \text{ hr/day})$$

$$M' = (14.35) \times 24$$

$$M' = \underline{344} \text{ lb/day}$$

d. Emission rate, lb/MMBtu

$$E = (C)(CF)(F_d) \left(\frac{20.9}{20.9 - \%O_2} \right)$$

$$E = \frac{(4.47)(1.19E-07)(8,622)(20.9)}{(20.9 - 14.61)}$$

$$E = \underline{0.015} \text{ lb/MMBtu}$$

EXAMPLE CALCULATIONS RELATIVE ACCURACY CALCULATIONS

Project name: Midway Sunset
 Computed by: J. Polthamus
 Analyzer, Units: NO_x @ 15% O₂

Project number: Proj-066225
 Calculation date: 2026-04-23
 Equipment Unit: C

EMISSIONS DATA

RATA Results

Run #	RM	CEMS	Diff., d
Run 1	4.19	4.27	-0.08
Run 2	4.27	4.28	-0.01
Run 3	4.38	4.28	0.10
Run 4	4.47	4.27	0.20
Run 5	4.43	4.33	0.10
Run 6	4.37	4.29	0.08
Run 7	4.40	4.27	0.13
Run 8	4.41	4.29	0.12
Run 9	4.39	4.29	0.10
Run 10	4.37	4.28	0.09

Number of runs, n 9 n
 t-value associated with n, t_{0.975} 2.306 t_{0.975}

Adapted from Figure 2-1 of 40 CFR 60 Appendix B, Performance Specification 2:

2	3	4	5	6	7	8	9	10	11	12
12.706	4.303	3.182	2.776	2.571	2.447	2.365	2.306	2.262	2.228	2.201

Note: The results calculated on these pages may differ slightly from the results presented in the final report. This difference can be attributed to "significant digit round-off errors" common when comparing computer spreadsheets results with those derived from using a calculator.

1. RELATIVE ACCURACY TEST AUDIT CALCULATIONS

a. Arithmetic Mean of Differences, $\bar{d}$

$$\bar{d} = \frac{1}{n} \sum_{i=1}^n d_i$$

$$\bar{d} = \frac{1}{9} (0.91)$$

$$\bar{d} = \underline{0.101}$$

b. Standard Deviation, S_d

$$S_d = \left[\frac{\sum_{i=1}^n d_i^2 - \left(\frac{(\sum_{i=1}^n d_i)^2}{n} \right)}{n - 1} \right]^{1/2}$$

$$S_d = \left[\frac{0.116 - \frac{1}{9} \times (0.908)^2}{9 - 1} \right]^{1/2}$$

$$S_d = \underline{0.055}$$

c. 2.5% Error Confidence Coefficient (one-tailed), CC

$$CC = t_{0.975} \left(\frac{S_d}{\sqrt{n}} \right)$$

$$CC = (2.306) \frac{(0.055)}{\sqrt{9}}$$

$$CC = \underline{0.042}$$

d. Relative Accuracy (based on applicable standard), RA

$$RA = \frac{(|\bar{d}| + |CC|)}{AS} \times 100$$

$$RA = \frac{(0.101 + 0.042)}{5.00} \times 100$$

$$RA = \underline{2.86} \%$$

e. Relative Accuracy (based on reference method data), RA

$$RA = \frac{(|\bar{d}| + |CC|)}{RM} \times 100$$

$$RA = \frac{(0.101 + 0.042)}{4.388} \times 100$$

$$RA = \underline{3.26} \%$$

Appendix A.6

General Equations

EMISSION CALCULATIONS

1. Volumetric Flow and Isokinetics

- a. Standard sample gas volume, dscf

$$V_{m\ std} = (V_m)(Y) \frac{(T_{std} + 460) \left(P_{bar} + \frac{\Delta H}{13.6} \right)}{(T_m + 460)(P_{std})}$$

- b. Water vapor volume, scf

$$V_{w\ std} = (0.04716)(V_{lc}) \left(\frac{T_{std} + 460}{528} \right)$$

- c. Moisture content, non-dimensional

$$B_{ws} = \frac{V_{w\ std}}{(V_{m\ std} + V_{w\ std})}$$

- d. Stack gas molecular weight, lb/lb mole (dry)

$$MW_{dry} = [0.44(\%CO_2)] + [0.32(\%O_2)] + [0.28(\%N_2)]$$

- e. Stack gas molecular weight, lb/lb mole (wet)

$$MW_{wet} = [MW_{dry}(1 - B_{ws})] + [18(B_{ws})]$$

- f. Absolute stack pressure, in Hg

$$P_s = P_{bar} + \left(\frac{P_{sg}}{13.6} \right)$$

- g. Stack velocity, ft/sec

$$v_s = (85.49)(C_p)(\sqrt{\Delta P}) \sqrt{\frac{T_s}{(P_s)(MW_{wet})}}$$

- h. Actual stack flow rate, acfm

$$Q = (v_s)(A_s)(60\ min/hr)$$

- i. Standard stack gas flow rate, wscfm

$$Q_{ws} = (v_s)(A_s)(60\ min/hr) \left(\frac{T_{std} + 460}{T_s + 460} \right) \left(\frac{P_s}{P_{std}} \right)$$

- j. Standard stack gas flow rate, dscfm

$$Q_{ds} = (v_s)(A_s)(60\ min/hr)(1 - B_{ws}) \left(\frac{T_{std} + 460}{T_s + 460} \right) \left(\frac{P_s}{P_{std}} \right)$$

- k. Percent isokinetic

$$I = \frac{(T_s)(V_{m\ std})(P_{std})(100)}{(T_{std} + 460)(v_s)(\theta)(A_n)(P_s)(60)(1 - B_{ws})}$$

2. Gaseous Emissions

- a. Concentration, ppm volume wet (i.e. to calculate wet ppm from dry ppm)

$$C_w = (C)(1 - B_{ws})$$

- b. Concentration, ppm @ 3% O
- ₂
- dry

$$C_3 = (C) \left[\frac{(20.9 - 3.0)}{(20.9 - \% O_2)} \right]$$

- c. Concentration, ppm @ 12% CO
- ₂
- dry

$$C_{12} = (C) \left(\frac{12.0}{\% CO_2} \right)$$

- d. Concentration, ppm volume dry (i.e. to calculate dry ppm from wet ppm)

$$C = \left[\frac{C_w}{(1 - B_{ws})} \right]$$

- e. Mass emission rate, lb/hr

$$M = (C)(CF)(Q_{ds})(60 \text{ min/hr})$$

where,

CF = conversion factor from ppm to lb/scf:

$$CF_{NOx} = 1.194 \times 10^{-7} \left(\frac{\text{lb/scf}}{\text{ppm}} \right)$$

$$CF_{SO} = 1.660 \times 10^{-7} \left(\frac{\text{lb/scf}}{\text{ppm}} \right)$$

$$CF_X = CF_{NOx} \left(\frac{MW_X}{MW_{NOx}} \right) \text{ for other compounds (x)}$$

- f. Emission rate, lb/MMBtu

$$E = (C)(CF)(F_d) \left(\frac{20.9}{20.9 - \% O_2} \right)$$

- g. Mass emission rate, grams/bhp-hr

$$M_j = (M) \left(\frac{453.59 \text{ g/lb}}{J} \right)$$

3. Particulate Emissions

- a. Grain loading, gr/dscf

$$G = (0.0154) \left(\frac{G_m}{V_{m\ std}} \right)$$

- b. Grain loading corrected to 12% CO
- ₂
- , gr/dscf @ 12% CO
- ₂

$$G_{12} = (G) \left(\frac{12.0}{\% CO_2} \right)$$

- c. Mass emission rate, lb/hr

$$M = (G)(Q_{ds}) \left(\frac{60\ min/hr}{7,000\ gr/lb} \right)$$

- d. Emission rate, lb/MMBtu

$$E = (G) \left(\frac{1\ lb}{7,000\ gr} \right) (F_d) \left(\frac{20.9}{20.9 - \% O_2} \right)$$

4. Fuel Factor "F"

- a. Choice #1 – use the values for F_d provided in Method 19, Table 19-1
 Choice #2 – if you have fuel ultimate and proximate analysis, calculate F_d
 (need fuel weight %CHONS, HHV)

Stoichiometric fuel factor at 68 °F, dscf/MMBtu at 0% O₂:

$$F_d = \frac{(10^6)[3.64(\% H) + 1.53(\% C) + 0.14(\% N) + 0.57(\% S) - 0.46(\% O)]}{HHV, Btu/lb}$$

- b. Fuel factor at 60 °F (use if all your volumes and flows are at 60 °F)

$$F_{d\ 60} = F_d \left(\frac{520^\circ R}{528^\circ R} \right)$$

5. Miscellaneous Equations

- a. Standard stack gas flow rate, calculated from fuel flow and F factor, dscfm

Note: Q_f and HHV need to be in units of either lb/hr and Btu/lb, or scf/hr and Btu/scf.
Do not mix units!

(calculation based on stack %O₂)

$$Q_{ds} = (Q_f)(HHV)(10^{-6})(F_d) \left(\frac{20.9}{20.9 - \% O_2} \right) / (60 \text{ min/hr})$$

or (calculation based on stack %CO₂ – see EPA Method 19 for values of F_c)

$$Q_{ds} = (Q_f)(HHV)(10^{-6})(F_c) \left(\frac{100}{\% CO_2} \right) / (60 \text{ min/hr})$$

- b. Destruction efficiency of emission control device, %

$$EFF = \left(\frac{C_{in} - C_{out}}{C_{in}} \right) (100\%) \quad \text{based on concentrations}$$

or

$$EFF = \left(\frac{M_{in} - M_{out}}{M_{in}} \right) (100\%) \quad \text{based on mass emission rates}$$

- c. Cylinder gas audit, % accuracy

$$A_c = \left(\frac{C_m - C_a}{C_a} \right) (100\%)$$

Nomenclature:

A_c	=	accuracy of CEMS during cylinder gas audit (CGA), % difference
A_n	=	nozzle area, in ² (πr^2), where $\pi = 3.1416$ and r = radius ($\frac{1}{2}$ diameter) in inches
A_s	=	stack area, ft ² (πr^2), where $\pi = 3.1416$ and r = radius ($\frac{1}{2}$ diameter) in feet
B_{ws}	=	flue gas moisture content (multiply by 100 for % by volume)
C	=	concentration of gaseous species, ppm volume dry
C_a	=	concentration of audit gas, ppm (for CGA, equation 5c)
C_m	=	concentration measured by CEMS, ppm (for CGA, equation 5c)
C_p	=	calibration factor for pitot tube, dimensionless
C_w	=	concentration of gaseous species, ppm volume wet
C_3	=	corrected concentration of gaseous species, ppm @ 3% O ₂ dry
C_{12}	=	corrected concentration of gaseous species, ppm @ 12% CO ₂ dry
E	=	mass emission rate, lb/MMBtu
EFF	=	destruction or removal efficiency of emission control device, % efficiency
F_c	=	stoichiometric "F" factor of fuel based on CO ₂ , dscf/MMBtu @ 100% CO ₂
F_d	=	stoichiometric "F" factor of fuel based on O ₂ , dscf/MMBtu @ 0% O ₂
G	=	particulate matter grain loading, grains/dscf
G_{12}	=	corrected particulate matter grain loading, grains/dscf @ 12% CO ₂
G_m	=	mass of collected particulate matter, mg
HHV	=	higher heating value, Btu/cubic foot
I	=	% isokinetic sampling rate, %
J	=	brake horsepower, bhp
M_j	=	mass emission rate of measured species (s), g/hp-hr
M	=	mass emission rate, lb/hr
MW_{dry}	=	molecular weight of stack gas, dry basis
MW_{wet}	=	molecular weight of stack gas, wet basis
MW_s	=	molecular weight of gaseous species (s), lb/lb mole:
		CO: 28.01 (can use 28) NO _x as NO ₂ : 46.01 (can use 46)
		SO _x as SO ₂ : 64.06 (can use 64) Hydrocarbons as C: 12.01 (can use 12)
		Hydrocarbons as CH ₄ : 16.04 (can use 16) Hydrocarbons as C ₃ H ₈ : 44.10 (can use 44)
		NH ₃ : 17.03 (can use 17)
N_2	=	nitrogen content of stack gas, % volume dry
P_{bar}	=	barometric pressure, in. Hg
P_s	=	stack absolute pressure, in. Hg
P_{sg}	=	stack static pressure, inches of water, gauge (iwg)
Q	=	wet stack gas flow rate at actual conditions, acfm
Q_f	=	fuel flow rate, scfh or lb/hr (be careful of units)
Q_{ds}	=	dry stack gas flow rate at standard conditions, dscfm
Q_{ws}	=	wet stack gas flow rate at standard conditions, wscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb mole
T_m	=	meter temperature, °R
T_{std}	=	reference temperature, °R
T_s	=	stack gas temperature, °R
v_s	=	stack gas velocity, ft/sec
V_{lc}	=	volume of liquid collected in impingers, ml
V_m	=	dry meter volume uncorrected, acf
$V_{m std}$	=	dry meter volume corrected to standard conditions, dscf
$V_{w std}$	=	volume of water vapor at standard conditions, scf
Y	=	meter calibration coefficient, dimensionless
ΔH	=	average pressure differential across meter, inches water
ΔP	=	average velocity head of stack gas, inches water
Θ	=	sampling time, minutes

Appendix B

Facility Process Data

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17
Time Online Criteria: 1 minute(s)

Source		UNIT_C											
Parameter	Unit	CO2 (%)	COLB/HR (LB/HR)	COPPM (PPM)	COPPMC (PPMC)	FLOWSCFH (SCFH)	GASFLOW (KSCFH)	LOAD (MW)	NOXLB/HR (LB/HR)	NOXLBMM (LB/MMBTU)	NOXPPM (PPM)	NOXPPMC (PPMC)	O2 (%)
04/23/26	17:50	3.4	0.9	0.5	0.4	27,742,055.6	913.1	82.1	15.1	0.016	4.5	4.3	14.7
04/23/26	17:51	3.4	1.1	0.6	0.6	27,809,222.7	913.2	82.1	15.1	0.016	4.5	4.3	14.7
04/23/26	17:52	3.4	0.9	0.6	0.5	27,776,430.0	913.3	82.2	14.3	0.015	4.4	4.2	14.7
04/23/26	17:53	3.4	0.9	0.5	0.5	27,807,151.8	913.0	82.2	14.1	0.015	4.4	4.2	14.7
04/23/26	17:54	3.4	0.9	0.5	0.5	27,854,751.5	913.7	82.2	14.5	0.015	4.4	4.3	14.7
04/23/26	17:55	3.4	0.9	0.4	0.4	27,766,757.7	914.1	82.2	15.1	0.016	4.5	4.3	14.7
R1													
04/23/26	17:56	3.4	0.9	0.4	0.4	27,759,530.6	913.6	82.3	15.1	0.016	4.5	4.3	14.7
04/23/26	17:57	3.4	0.9	0.5	0.5	27,914,132.9	915.5	82.2	15.1	0.016	4.5	4.3	14.7
04/23/26	17:58	3.4	0.9	0.5	0.5	27,957,504.1	914.8	82.2	15.1	0.016	4.5	4.3	14.8
04/23/26	17:59	3.4	0.9	0.5	0.4	27,834,700.5	913.0	82.2	14.6	0.015	4.4	4.3	14.7
04/23/26	18:00	3.4	0.9	0.5	0.5	27,900,257.5	914.0	82.2	15.1	0.016	4.5	4.3	14.8
04/23/26	18:01	3.4	0.9	0.5	0.5	27,815,973.2	912.7	82.2	14.4	0.015	4.4	4.3	14.7
04/23/26	18:02	3.4	0.9	0.5	0.5	27,833,512.6	912.7	82.2	14.6	0.016	4.5	4.3	14.7
04/23/26	18:03	3.4	0.9	0.5	0.4	27,921,370.7	914.2	82.2	14.9	0.015	4.4	4.2	14.7
04/23/26	18:04	3.4	0.9	0.6	0.6	27,828,308.6	912.7	82.2	14.5	0.015	4.4	4.3	14.7
04/23/26	18:05	3.4	0.9	0.5	0.5	27,843,786.9	913.0	82.2	14.4	0.015	4.4	4.2	14.7
04/23/26	18:06	3.4	0.9	0.6	0.6	27,758,650.9	912.9	82.2	14.1	0.015	4.4	4.2	14.7
04/23/26	18:07	3.4	0.9	0.5	0.5	27,817,790.7	912.6	82.2	14.4	0.015	4.4	4.2	14.7
04/23/26	18:08	3.4	0.9	0.5	0.5	27,707,874.2	912.6	82.2	15.1	0.016	4.5	4.3	14.7
04/23/26	18:09	3.4	0.9	0.5	0.4	27,698,041.9	912.8	82.2	14.3	0.015	4.4	4.2	14.7
04/23/26	18:10	3.4	0.9	0.5	0.5	27,762,695.0	912.9	82.2	15.1	0.016	4.5	4.3	14.7
04/23/26	18:11	3.4	0.9	0.5	0.5	27,822,231.8	914.5	82.3	14.9	0.016	4.5	4.3	14.7
04/23/26	18:12	3.4	0.9	0.4	0.4	27,825,094.8	913.9	82.3	15.1	0.016	4.5	4.3	14.7
04/23/26	18:13	3.4	0.9	0.6	0.6	27,811,979.8	912.6	82.2	15.1	0.016	4.5	4.3	14.7
04/23/26	18:14	3.4	0.9	0.5	0.5	27,897,473.4	915.0	82.3	14.5	0.015	4.4	4.3	14.7
04/23/26	18:15	3.4	0.9	0.4	0.4	27,861,837.8	915.0	82.4	14.6	0.016	4.5	4.3	14.7
04/23/26	18:16	3.4	1.1	0.6	0.5	27,941,631.7	915.6	82.3	15.0	0.016	4.5	4.3	14.7
04/23/26	18:17	3.4	0.9	0.6	0.6	27,949,501.7	917.1	82.4	15.0	0.016	4.5	4.3	14.7
04/23/26	18:18	3.4	0.9	0.6	0.6	27,923,416.3	917.4	82.4	15.0	0.016	4.5	4.3	14.7
04/23/26	18:19	3.4	0.9	0.5	0.5	27,855,377.2	917.4	82.4	15.1	0.016	4.5	4.3	14.7
04/23/26	18:20	3.4	0.9	0.5	0.4	27,835,121.3	917.6	82.4	15.0	0.016	4.5	4.3	14.7
04/23/26	18:21	3.4	0.9	0.5	0.5	27,847,745.0	917.1	82.5	15.0	0.016	4.5	4.3	14.7
04/23/26	18:22	3.4	0.9	0.5	0.5	27,790,246.4	916.6	82.4	14.8	0.016	4.5	4.2	14.7
04/23/26	18:23	3.4	1.4	0.7	0.7	27,890,949.5	917.9	82.5	14.7	0.015	4.4	4.2	14.7
04/23/26	18:24	3.4	0.9	0.6	0.6	27,827,399.4	917.6	82.5	14.4	0.015	4.4	4.2	14.7
04/23/26	18:25	3.4	0.9	0.5	0.5	27,998,814.8	919.7	82.5	14.9	0.016	4.5	4.3	14.7
End R1		3.40	0.92	0.52	0.51	27,850,808	914.9	82.30	14.79	0.0156	4.46	4.27	14.71
04/23/26	18:26	3.4	0.9	0.5	0.5	27,983,955.5	918.3	82.6	15.2	0.016	4.5	4.3	14.7
04/23/26	18:27	3.4	0.9	0.4	0.5	27,879,975.5	918.5	82.6	15.2	0.016	4.5	4.3	14.7
04/23/26	18:28	3.4	0.9	0.5	0.5	27,952,239.6	919.5	82.5	14.9	0.016	4.5	4.3	14.7
04/23/26	18:29	3.4	0.9	0.5	0.5	27,865,996.0	918.3	82.5	14.8	0.016	4.5	4.3	14.7
04/23/26	18:30	3.4	0.9	0.6	0.5	27,929,995.0	918.4	82.6	14.7	0.015	4.4	4.3	14.7
04/23/26	18:31	3.4	0.9	0.5	0.5	27,938,256.8	919.2	82.6	15.0	0.016	4.5	4.3	14.7
04/23/26	18:32	3.4	1.1	0.6	0.5	28,038,048.3	918.6	82.7	15.2	0.016	4.5	4.3	14.7
04/23/26	18:33	3.4	1.1	0.6	0.6	28,107,349.3	920.6	82.7	15.2	0.016	4.5	4.3	14.7
04/23/26	18:34	3.4	0.9	0.6	0.6	28,108,916.7	920.0	82.7	15.2	0.016	4.5	4.3	14.8
04/23/26	18:35	3.4	1.3	0.6	0.6	28,131,048.5	920.5	82.8	15.2	0.016	4.5	4.3	14.8
04/23/26	18:36	3.4	1.0	0.6	0.5	28,207,097.5	921.3	82.8	15.2	0.016	4.5	4.3	14.8
04/23/26	18:37	3.4	1.1	0.7	0.6	28,005,828.9	920.5	82.8	15.2	0.016	4.5	4.3	14.7
04/23/26	18:38	3.4	1.1	0.7	0.7	28,010,413.9	921.4	82.9	14.6	0.015	4.4	4.2	14.7
04/23/26	18:39	3.4	1.3	0.6	0.7	28,088,181.3	922.6	82.9	14.3	0.015	4.4	4.2	14.7
04/23/26	18:40	3.4	1.0	0.6	0.5	28,073,193.4	922.1	83.0	14.3	0.015	4.4	4.2	14.7
R2													
04/23/26	18:41	3.4	1.0	0.7	0.6	28,090,664.2	922.7	83.1	14.6	0.016	4.5	4.2	14.7
04/23/26	18:42	3.4	1.0	0.6	0.6	28,126,015.7	924.9	83.1	15.1	0.016	4.5	4.3	14.7
04/23/26	18:43	3.4	1.0	0.5	0.5	28,072,079.2	922.6	83.1	15.1	0.016	4.5	4.3	14.7
04/23/26	18:44	3.4	1.0	0.5	0.5	28,067,243.8	923.1	83.1	15.2	0.016	4.5	4.3	14.7
04/23/26	18:45	3.4	1.0	0.6	0.6	28,193,573.6	925.5	83.2	15.1	0.016	4.5	4.3	14.7
04/23/26	18:46	3.4	1.0	0.6	0.6	28,132,994.9	925.0	83.2	15.0	0.016	4.5	4.3	14.7
04/23/26	18:47	3.4	1.0	0.7	0.6	28,150,474.6	924.9	83.2	15.3	0.016	4.5	4.3	14.7
04/23/26	18:48	3.4	1.0	0.6	0.6	28,135,224.6	925.5	83.2	15.1	0.016	4.5	4.3	14.7
04/23/26	18:49	3.4	1.0	0.6	0.6	28,062,055.9	924.3	83.2	14.5	0.015	4.4	4.2	14.7
04/23/26	18:50	3.4	1.0	0.6	0.5	28,111,538.2	925.1	83.2	15.0	0.016	4.5	4.3	14.7
04/23/26	18:51	3.4	1.0	0.7	0.6	28,077,660.5	925.3	83.2	15.3	0.016	4.5	4.3	14.7
04/23/26	18:52	3.4	1.9	0.7	0.7	28,372,549.8	924.9	83.2	15.3	0.016	4.5	4.3	14.8
04/23/26	18:53	3.4	1.0	0.6	0.6	28,159,069.0	924.6	83.3	15.1	0.016	4.5	4.3	14.7
04/23/26	18:54	3.4	1.6	0.8	0.7	28,267,625.7	925.7	83.3	15.0	0.016	4.4	4.2	14.8
04/23/26	18:55	3.4	1.3	0.7	0.7	28,148,966.2	925.2	83.3	14.5	0.015	4.4	4.2	14.7
04/23/26	18:56	3.4	1.4	0.7	0.7	28,186,099.2	925.5	83.4	14.5	0.015	4.4	4.2	14.7
04/23/26	18:57	3.4	1.0	0.6	0.6	28,159,508.2	925.9	83.3	14.3	0.015	4.4	4.2	14.7
04/23/26	18:58	3.4	1.0	0.7	0.6	28,134,011.5	926.4	83.4	15.0	0.015	4.4	4.2	14.7
04/23/26	18:59	3.4	1.1	0.7	0.6	28,161,361.5	925.9	83.4	15.0	0.016	4.5	4.3	14.7
04/23/26	19:00	3.4	1.7	0.8	0.7	28,273,177.5	927.3	83.4	15.3	0.016	4.5	4.3	14.7
04/23/26	19:01	3.4	1.0	0.6	0.6	28,082,011.6	924.9	83.4	15.1	0.015	4.4	4.3	14.7
04/23/26	19:02	3.4	1.0	0.6	0.5	28,084,152.5	926.2	83.4	15.0	0.016	4.5	4.3	14.7
04/23/26	19:03	3.4	1.6	0.7	0.7	28,066,478.6	926.9	83.5	15.3	0.016	4.5	4.3	14.7
04/23/26	19:04	3.4	1.0	0.6	0.6	28,158,411.2	925.9	83.5	15.3	0.016	4.5	4.3	14.7
04/23/26	19:05	3.4	1.1	0.7	0.6	28,121,645.1	927.0	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:06	3.4	1.0	0.6	0.6	28,164,765.4	927.8	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:07	3.4	1.4	0.7	0.7	28,140,869.4	927.5	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:0												

F = Unit Offline

E = Exceedance

C = Calibration

S = Substituted

M = Maintenance

T = Out Of Control

* = Suspect

U = Startup

Report Generated: 04/15/25

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17
Time Online Criteria: 1 minute(s)

04/23/26	19:09	3.4	1.1	0.7	0.7	28,197,419.6	928.9	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:10	3.4	1.0	0.6	0.6	28,155,153.5	928.0	83.6	15.3	0.016	4.5	4.3	14.7
End R2		3.40	1.14	0.64	0.61	28,147,238	925.8	83.35	15.08	0.0158	4.48	4.28	14.71
04/23/26	19:11	3.4	1.0	0.6	0.6	28,177,779.4	927.3	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:12	3.4	1.8	1.0	0.9	28,203,907.4	928.3	83.6	15.3	0.016	4.6	4.4	14.7
04/23/26	19:13	3.4	1.3	0.7	0.7	28,204,463.5	927.6	83.5	15.3	0.016	4.6	4.4	14.7
04/23/26	19:14	3.4	1.0	0.7	0.6	28,096,630.4	926.7	83.5	15.3	0.016	4.5	4.3	14.7
04/23/26	19:15	3.4	1.0	0.7	0.6	28,148,374.1	928.6	83.6	15.3	0.016	4.5	4.3	14.7
04/23/26	19:16	3.4	1.9	1.0	0.9	28,219,074.8	929.1	83.7	15.3	0.016	4.5	4.3	14.7
04/23/26	19:17	3.4	2.1	1.0	1.0	28,197,029.7	928.1	83.7	14.4	0.015	4.4	4.2	14.7
04/23/26	19:18	3.4	1.8	0.8	0.8	28,224,479.3	927.5	83.7	15.3	0.016	4.5	4.3	14.7
04/23/26	19:19	3.4	1.9	0.8	0.8	28,275,665.1	929.6	83.8	14.9	0.015	4.4	4.2	14.7
04/23/26	19:20	3.4	1.3	0.7	0.7	28,178,989.5	928.9	83.8	15.0	0.016	4.5	4.2	14.7
04/23/26	19:21	3.3	1.8	0.8	0.8	28,364,766.9	929.4	83.8	14.7	0.015	4.4	4.2	14.7
04/23/26	19:22	3.4	1.1	0.6	0.6	28,331,534.3	930.6	83.9	14.9	0.016	4.5	4.2	14.7
04/23/26	19:23	3.4	1.9	1.0	0.9	28,282,689.0	928.3	83.8	15.2	0.016	4.5	4.3	14.7
04/23/26	19:24	3.3	1.6	0.8	0.8	28,353,760.1	929.1	83.8	14.7	0.015	4.4	4.2	14.7
04/23/26	19:25	3.3	1.4	0.8	0.7	28,356,088.3	929.7	83.8	14.4	0.015	4.4	4.2	14.7
R3													
04/23/26	19:26	3.4	1.9	0.9	0.9	28,373,952.3	929.7	83.9	14.7	0.015	4.4	4.2	14.7
04/23/26	19:27	3.4	1.1	0.7	0.7	28,228,732.5	928.5	83.8	14.5	0.015	4.4	4.2	14.7
04/23/26	19:28	3.4	1.1	0.7	0.7	28,259,428.0	930.2	83.8	14.7	0.016	4.5	4.2	14.7
04/23/26	19:29	3.4	1.5	0.8	0.7	28,251,464.1	930.3	83.9	15.4	0.016	4.5	4.3	14.7
04/23/26	19:30	3.4	1.9	0.9	0.9	28,222,826.9	929.3	83.9	14.4	0.015	4.4	4.2	14.7
04/23/26	19:31	3.4	1.0	0.7	0.7	28,225,450.5	929.1	83.8	15.0	0.016	4.5	4.2	14.7
04/23/26	19:32	3.4	1.6	0.8	0.7	28,289,985.2	930.9	83.9	15.4	0.016	4.5	4.3	14.7
04/23/26	19:33	3.4	1.3	0.7	0.7	28,286,371.4	929.3	83.9	15.4	0.016	4.6	4.4	14.7
04/23/26	19:34	3.4	1.6	0.9	0.8	28,366,262.5	930.1	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	19:35	3.4	1.9	0.9	0.9	28,352,376.8	931.5	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	19:36	3.3	1.7	0.8	0.8	28,298,556.0	930.7	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	19:37	3.4	1.0	0.6	0.5	28,350,588.7	931.3	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:38	3.4	1.0	0.6	0.6	28,321,495.4	931.0	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	19:39	3.4	1.0	0.6	0.6	28,348,191.1	932.5	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:40	3.4	1.1	0.7	0.6	28,292,573.8	931.4	84.1	15.1	0.016	4.5	4.2	14.7
04/23/26	19:41	3.4	1.3	0.8	0.7	28,339,806.7	931.6	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:42	3.4	1.1	0.6	0.6	28,323,401.6	931.7	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:43	3.4	1.1	0.7	0.6	28,384,186.4	932.2	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:44	3.4	1.9	1.0	1.0	28,319,145.8	931.4	84.2	14.9	0.016	4.5	4.3	14.7
04/23/26	19:45	3.4	1.4	0.8	0.8	28,351,566.7	932.9	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	19:46	3.4	1.3	0.8	0.7	28,358,572.0	934.7	84.3	15.4	0.016	4.5	4.3	14.7
04/23/26	19:47	3.4	1.9	0.9	0.9	28,248,111.1	930.7	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	19:48	3.4	1.9	0.9	0.8	28,362,706.1	931.9	84.2	14.6	0.015	4.4	4.2	14.7
04/23/26	19:49	3.3	1.9	0.9	0.9	28,348,252.8	932.6	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	19:50	3.3	1.9	0.9	0.8	28,349,545.5	932.2	84.1	15.1	0.016	4.5	4.3	14.7
04/23/26	19:51	3.4	1.9	0.9	0.8	28,397,954.8	931.6	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:52	3.4	1.7	0.8	0.8	28,425,318.0	932.4	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	19:53	3.4	1.0	0.6	0.6	28,367,584.7	932.8	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	19:54	3.3	1.1	0.7	0.7	28,332,547.9	931.5	84.2	14.7	0.015	4.4	4.2	14.7
04/23/26	19:55	3.3	1.1	0.7	0.7	28,303,266.7	932.2	84.2	15.2	0.016	4.5	4.3	14.7
End R3		3.38	1.42	0.77	0.73	28,320,906	931.3	84.06	15.20	0.0159	4.49	4.28	14.70
04/23/26	19:56	3.3	1.1	0.7	0.7	28,355,571.7	932.6	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	19:57	3.4	1.3	0.8	0.7	28,344,383.3	933.2	84.2	15.4	0.016	4.6	4.4	14.7
04/23/26	19:58	3.4	1.6	0.8	0.8	28,252,253.9	931.1	84.1	15.4	0.016	4.6	4.4	14.7
04/23/26	19:59	3.4	1.9	0.9	0.9	28,258,072.6	931.4	84.1	15.4	0.016	4.6	4.4	14.7
04/23/26	20:00	3.4	1.7	0.8	0.8	28,305,717.9	932.6	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	20:01	3.4	1.8	0.9	0.9	28,155,889.6	931.5	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	20:02	3.4	1.9	0.9	0.9	28,234,251.4	931.2	84.1	15.4	0.016	4.5	4.3	14.7
04/23/26	20:03	3.4	1.9	1.0	1.0	28,218,304.7	931.0	84.1	15.3	0.016	4.5	4.3	14.7
04/23/26	20:04	3.4	1.6	0.8	0.8	28,305,137.4	932.0	84.0	15.4	0.016	4.5	4.3	14.7
04/23/26	20:05	3.3	1.9	1.0	1.0	28,297,721.0	931.1	84.1	14.9	0.015	4.4	4.2	14.7
04/23/26	20:06	3.4	2.6	1.2	1.1	28,279,719.3	929.6	84.0	14.5	0.015	4.4	4.2	14.7
R4													
04/23/26	20:07	3.3	2.2	1.1	1.1	28,304,553.9	931.7	84.1	14.4	0.015	4.3	4.2	14.7
04/23/26	20:08	3.4	1.9	1.0	1.0	28,202,759.5	932.6	84.1	14.4	0.015	4.4	4.2	14.7
04/23/26	20:09	3.3	2.4	1.1	1.0	28,197,193.2	930.7	84.1	14.4	0.015	4.4	4.2	14.7
04/23/26	20:10	3.4	1.4	0.8	0.7	28,249,881.0	931.0	84.1	14.9	0.016	4.5	4.2	14.7
04/23/26	20:11	3.3	1.9	1.1	1.0	28,336,775.3	932.6	84.1	15.2	0.016	4.5	4.3	14.7
04/23/26	20:12	3.3	1.6	0.8	0.8	28,285,613.6	932.8	84.1	15.2	0.016	4.5	4.3	14.7
04/23/26	20:13	3.3	1.8	0.8	0.8	28,132,839.4	931.4	84.1	15.3	0.016	4.5	4.3	14.7
04/23/26	20:14	3.3	1.9	0.8	0.8	28,228,380.8	932.3	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	20:15	3.3	1.9	0.9	0.9	28,320,924.2	933.5	84.2	14.9	0.015	4.4	4.2	14.7
04/23/26	20:16	3.3	1.9	0.8	0.8	28,346,457.5	933.8	84.2	15.4	0.016	4.5	4.3	14.7
04/23/26	20:17	3.3	1.9	0.9	0.8	28,241,654.2	930.9	84.3	14.8	0.015	4.4	4.3	14.7
04/23/26	20:18	3.3	1.9	0.9	0.9	28,355,939.2	932.9	84.3	15.2	0.016	4.5	4.3	14.7
04/23/26	20:19	3.3	1.9	0.9	0.9	28,409,931.1	934.6	84.3	15.4	0.016	4.5	4.3	14.7
04/23/26	20:20	3.3	1.6	0.8	0.8	28,284,054.2	932.3	84.3	15.4	0.016	4.5	4.3	14.7
04/23/26	20:21	3.3	1.5	0.8	0.7	28,260,925.3	932.3	84.3	14.7	0.015	4.4	4.2	14.7
04/23/26	20:22	3.3	1.9	1.0	0.9	28,516,235.4	933.8	84.4	15.4	0.016	4.5	4.3	14.8
04/23/26	20:23	3.3	1.9	0.9	0.9	28,350,738.2	933.9	84.3	15.4	0.016	4.5	4.3	14.7
04/23/26	20:24	3.3	1.9	0.9	0.9	28,254,369.0	933.2	84.4	15.2	0.016	4.5	4.3	14.7
04/23/26	20:25	3.3	1.9	0.8	0.8	28,296,028.9	932.5	84.4	14.9	0.016	4.5	4.2	14.7
04/23/26	20:26	3.4	1.9	0.8	0.8	28,305,052.1	934.8	84.4	15.4	0.016	4.5	4.3	14.7
04/23/26	20:27	3.4	1.9	0.8	0.8	28,257,774.9	935.0	84.5	15.2	0.016	4.5	4.3	14.7
04/23/26	20:28	3.3	1.9	1.0	0.9	28,205,133.8	932.8	84.4	15.4	0.016	4.5	4.3	14.7
04/23/26	20:29	3.3	1.9	1.1	1.0	28,249,227.7	933.6	84.5	14.6	0.015	4.4	4.2	14.7

F = Unit Offline

E = Exceedance

C = Calibration

S = Substituted

M = Maintenance

T = Out Of Control

* = Suspect

U = Startup

Report Generated: 04/15/25

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17
Time Online Criteria: 1 minute(s)

04/23/26	20:30	3.3	1.9	0.9	1.0	28,286,629.4	934.9	84.5	14.6	0.015	4.4	4.2	14.7
04/23/26	20:31	3.3	1.1	0.8	0.7	28,308,317.2	936.4	84.5	15.0	0.016	4.5	4.3	14.7
04/23/26	20:32	3.4	1.9	0.9	0.9	28,149,749.6	933.2	84.5	15.4	0.016	4.5	4.3	14.7
04/23/26	20:33	3.3	1.4	0.7	0.7	28,339,755.6	935.4	84.5	15.1	0.016	4.5	4.3	14.7
04/23/26	20:34	3.4	1.9	0.8	0.8	28,266,819.9	935.0	84.4	15.2	0.016	4.5	4.3	14.7
04/23/26	20:35	3.3	1.5	0.8	0.7	28,149,162.8	933.6	84.5	14.8	0.016	4.5	4.2	14.7
04/23/26	20:36	3.4	1.6	0.7	0.7	28,314,861.4	934.7	84.5	15.4	0.016	4.5	4.3	14.7
End R4													
04/23/26	20:37	3.32	1.79	0.87	0.84	28,279,489	933.3	84.32	15.09	0.0158	4.48	4.27	14.70
04/23/26	20:37	3.4	1.5	0.8	0.7	28,190,975.4	933.8	84.4	15.4	0.016	4.5	4.3	14.7
04/23/26	20:38	3.4	1.9	1.0	0.9	28,228,071.7	935.0	84.4	15.4	0.016	4.6	4.3	14.7
04/23/26	20:39	3.3	3.2	1.8	1.4	27,412,520.1	910.0	81.9	16.5	0.018	5.2	4.7	14.7
04/23/26	20:40	3.4	3.9	1.8	2.0	27,219,014.6	894.3	80.8	19.9	0.021	6.1	5.9	14.7
04/23/26	20:41	3.4	2.5	1.2	1.2	26,830,371.3	894.5	80.8	16.7	0.018	5.1	4.9	14.6
04/23/26	20:42	3.4	2.8	1.4	1.4	26,871,682.3	895.2	80.8	16.0	0.018	5.0	4.7	14.7
04/23/26	20:43	3.4	2.8	1.4	1.3	27,059,868.9	897.0	81.0	15.9	0.017	4.9	4.6	14.7
04/23/26	20:44	3.4	3.1	1.5	1.5	26,996,475.8	896.4	80.9	15.7	0.017	4.8	4.6	14.7
04/23/26	20:45	3.4	4.5	2.6	2.2	26,954,267.5	897.5	80.9	15.4	0.016	4.7	4.5	14.7
04/23/26	20:46	3.4	5.6	2.8	2.7	27,042,037.4	897.7	81.0	14.2	0.015	4.4	4.2	14.7
04/23/26	20:47	3.4	6.5	3.3	3.1	27,084,613.3	896.5	80.8	13.4	0.014	4.1	4.0	14.7
04/23/26	20:48	3.4	6.0	3.0	2.9	26,891,799.3	895.3	80.8	13.2	0.014	4.1	3.9	14.7
04/23/26	20:49	3.4	4.7	2.2	2.2	26,869,471.3	895.7	80.8	13.9	0.015	4.4	4.1	14.7
04/23/26	20:50	3.4	2.9	1.4	1.4	26,882,786.6	895.6	80.7	15.1	0.016	4.7	4.4	14.6
04/23/26	20:51	3.4	2.8	1.4	1.3	26,634,949.0	895.1	80.7	15.7	0.017	4.8	4.5	14.6
04/23/26	20:52	3.4	2.8	1.3	1.3	26,664,646.0	895.8	80.7	15.5	0.017	4.8	4.5	14.6
04/23/26	20:53	3.4	3.4	1.8	1.6	26,699,816.2	897.1	80.9	14.9	0.016	4.7	4.4	14.6
04/23/26	20:54	3.4	2.9	1.5	1.5	26,694,755.4	897.3	80.7	15.1	0.016	4.7	4.4	14.6
04/23/26	20:55	3.4	2.8	1.5	1.4	26,697,050.9	896.3	80.9	14.8	0.016	4.7	4.4	14.6
04/23/26	20:56	3.4	3.5	1.7	1.7	26,712,082.8	895.5	80.8	14.8	0.016	4.7	4.4	14.6
04/23/26	20:57	3.4	2.9	1.6	1.5	26,634,023.0	897.5	80.9	14.8	0.016	4.6	4.3	14.6
04/23/26	20:58	3.4	3.7	1.8	1.7	26,776,972.9	896.8	80.8	14.8	0.016	4.6	4.3	14.6
04/23/26	20:59	3.4	3.7	1.8	1.7	26,737,524.9	896.0	80.9	14.8	0.016	4.6	4.3	14.6
04/23/26	21:00	3.4	3.7	1.9	1.7	26,668,935.0	896.8	80.8	14.8	0.016	4.6	4.3	14.6
R5													
04/23/26	21:01	3.4	4.6	2.7	2.3	26,183,202.0	877.6	78.6	14.5	0.016	4.6	4.3	14.6
04/23/26	21:02	3.4	5.8	2.8	2.9	26,066,644.5	870.3	78.0	15.2	0.017	4.9	4.6	14.7
04/23/26	21:03	3.4	4.0	2.1	2.0	26,189,364.3	870.9	78.1	14.3	0.016	4.6	4.3	14.7
04/23/26	21:04	3.4	3.9	2.2	2.0	26,114,379.4	869.8	78.0	14.3	0.016	4.5	4.3	14.7
04/23/26	21:05	3.4	3.9	2.1	2.0	26,124,456.5	870.3	77.8	14.3	0.016	4.5	4.3	14.6
04/23/26	21:06	3.4	3.9	2.1	2.0	26,025,487.2	870.0	77.8	14.3	0.016	4.6	4.3	14.6
04/23/26	21:07	3.4	3.6	2.0	1.9	26,023,681.0	870.1	77.8	14.3	0.016	4.6	4.3	14.6
04/23/26	21:08	3.4	3.9	2.0	1.9	26,043,564.5	869.8	77.8	14.3	0.016	4.6	4.4	14.6
04/23/26	21:09	3.4	4.0	2.2	2.1	25,876,025.3	864.8	77.1	14.2	0.016	4.6	4.4	14.6
04/23/26	21:10	3.4	3.8	2.0	2.0	25,848,823.0	859.9	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	21:11	3.4	3.5	1.9	1.8	25,776,569.1	859.6	76.8	14.2	0.016	4.7	4.4	14.6
04/23/26	21:12	3.4	3.5	1.9	1.8	25,786,756.9	860.4	76.9	14.2	0.016	4.7	4.4	14.6
04/23/26	21:13	3.4	4.3	2.3	2.1	25,823,158.9	860.7	76.8	14.2	0.016	4.7	4.4	14.7
04/23/26	21:14	3.4	3.6	2.1	1.9	25,846,089.5	862.4	76.8	14.2	0.016	4.7	4.4	14.6
04/23/26	21:15	3.4	3.8	2.1	2.0	25,830,289.8	860.2	76.8	14.2	0.016	4.6	4.4	14.7
04/23/26	21:16	3.4	3.5	2.0	1.9	25,769,378.5	859.2	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	21:17	3.4	4.3	2.4	2.2	25,724,698.3	861.4	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:18	3.4	4.4	2.3	2.2	25,855,761.7	860.8	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	21:19	3.4	4.4	2.2	2.1	25,819,649.0	860.7	76.9	14.2	0.016	4.5	4.3	14.7
04/23/26	21:20	3.4	4.4	2.3	2.2	25,826,895.7	859.9	76.8	14.2	0.016	4.5	4.3	14.7
04/23/26	21:21	3.4	4.4	2.3	2.2	25,745,012.3	862.1	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	21:22	3.4	4.4	2.3	2.2	25,648,710.3	859.1	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:23	3.4	4.4	2.4	2.3	25,849,363.5	860.5	76.9	14.2	0.016	4.5	4.3	14.7
04/23/26	21:24	3.4	4.2	2.3	2.1	25,773,913.8	861.7	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	21:25	3.4	4.9	2.5	2.4	25,835,011.1	860.1	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	21:26	3.4	4.0	2.2	2.0	25,716,372.3	859.7	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:27	3.4	4.3	2.3	2.1	25,795,964.2	863.4	77.0	14.1	0.016	4.5	4.3	14.6
04/23/26	21:28	3.4	4.6	2.5	2.3	25,780,499.0	861.1	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	21:29	3.4	4.4	2.5	2.3	25,766,306.0	859.7	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:30	3.4	4.5	2.4	2.2	25,868,021.6	862.5	76.8	14.2	0.016	4.5	4.3	14.7
End R5													
04/23/26	21:31	3.40	4.16	2.23	2.11	25,867,271	863.1	77.11	14.25	0.0160	4.59	4.33	14.64
04/23/26	21:31	3.4	4.6	2.4	2.3	25,800,626.4	860.9	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	21:32	3.4	4.4	2.4	2.2	25,764,303.9	860.6	76.8	14.2	0.016	4.6	4.4	14.6
04/23/26	21:33	3.4	4.4	2.3	2.2	25,805,824.8	863.1	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	21:34	3.4	5.0	2.8	2.6	25,655,487.9	858.8	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	21:35	3.4	4.6	2.5	2.4	25,767,454.1	861.9	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:36	3.4	4.9	2.6	2.5	25,765,129.2	859.7	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	21:37	3.4	4.9	2.7	2.5	25,748,595.5	859.8	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:38	3.4	5.3	2.8	2.6	25,742,847.2	861.5	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:39	3.4	5.2	2.8	2.6	25,720,113.8	859.4	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	21:40	3.4	4.7	2.6	2.5	25,933,014.7	862.6	76.8	14.1	0.016	4.5	4.2	14.7
R6													
04/23/26	21:41	3.4	5.0	2.6	2.4	25,815,335.6	860.5	76.8	13.7	0.016	4.5	4.2	14.6
04/23/26	21:42	3.4	4.4	2.5	2.4	25,690,528.8	859.5	76.7	13.9	0.016	4.5	4.2	14.6
04/23/26	21:43	3.4	4.7	2.5	2.4	25,895,312.5	860.8	76.9	14.0	0.016	4.5	4.2	14.7
04/23/26	21:44	3.4	4.7	2.6	2.4	25,796,160.1	859.8	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	21:45	3.4	5.3	2.7	2.6	25,822,706.0	861.5	76.8	13.9	0.016	4.5	4.2	14.6
04/23/26	21:46	3.4	4.4	2.3	2.2	25,751,412.3	859.6	76.7	14.2	0.016	4.5	4.3	14.6
04/23/26	21:47	3.4	4.4	2.4	2.2	25,737,759.7	859.4	76.7	14.2	0.016	4.5	4.3	14.6
04/23/26	21:48	3.4	4.4	2.4	2.3	25,839,269.7	862.9	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	21:49	3.4	4.4	2.5	2.4	25,777,391.4	861.4	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	21:50	3.4	4.4	2.4	2.3	25,728,117.0	861.3	76.8	14.2	0.016	4.6	4.3	14.6

F = Unit Offline

E = Exceedance

C = Calibration

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17

Time Online Criteria: 1 minute(s)

04/23/26	21:51	3.4	4.4	2.3	2.2	25,774,005.8	861.1	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:52	3.4	4.1	2.2	2.1	25,708,418.2	860.3	76.9	13.9	0.016	4.5	4.2	14.6
04/23/26	21:53	3.4	4.4	2.5	2.3	25,818,709.1	862.2	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	21:54	3.4	4.1	2.3	2.1	25,739,912.3	858.7	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	21:55	3.4	4.4	2.4	2.2	25,780,931.6	859.9	76.7	14.2	0.016	4.6	4.3	14.6
04/23/26	21:56	3.4	4.6	2.4	2.3	25,787,653.2	860.4	76.8	13.9	0.016	4.5	4.3	14.6
04/23/26	21:57	3.4	4.2	2.3	2.2	25,673,550.6	856.5	76.6	14.1	0.016	4.6	4.3	14.6
04/23/26	21:58	3.4	4.3	2.5	2.3	25,823,506.7	862.8	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	21:59	3.4	4.4	2.4	2.2	25,788,955.5	860.5	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	22:00	3.4	4.3	2.3	2.2	25,738,097.2	860.9	76.9	14.0	0.016	4.6	4.3	14.6
04/23/26	22:01	3.4	4.7	2.6	2.4	25,686,733.2	860.5	76.8	14.0	0.016	4.5	4.3	14.6
04/23/26	22:02	3.4	4.4	2.3	2.2	25,693,640.7	859.2	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:03	3.4	4.4	2.3	2.2	25,806,611.4	861.7	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:04	3.4	4.6	2.5	2.3	25,844,979.0	860.0	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	22:05	3.4	4.7	2.4	2.3	25,807,440.9	860.0	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	22:06	3.4	4.3	2.2	2.1	25,822,536.9	862.6	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:07	3.4	4.9	2.6	2.4	25,758,681.0	859.0	76.7	14.0	0.016	4.6	4.3	14.6
04/23/26	22:08	3.4	4.4	2.4	2.2	25,785,169.0	860.3	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:09	3.4	4.4	2.4	2.3	25,796,996.6	861.2	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	22:10	3.4	4.4	2.4	2.3	25,793,189.1	859.0	76.9	14.1	0.016	4.6	4.3	14.7
End R6		3.40	4.47	2.41	2.28	25,774,772	860.4	76.81	14.12	0.0160	4.56	4.29	14.61
04/23/26	22:11	3.4	4.4	2.4	2.2	25,835,646.0	862.5	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:12	3.4	4.4	2.4	2.3	25,761,782.6	860.0	76.8	14.2	0.016	4.7	4.4	14.6
04/23/26	22:13	3.4	4.6	2.6	2.4	25,799,971.6	861.5	76.8	14.2	0.016	4.6	4.4	14.6
04/23/26	22:14	3.4	4.6	2.5	2.4	25,784,111.4	861.9	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:15	3.4	4.6	2.6	2.4	25,721,809.7	859.0	76.7	14.1	0.016	4.7	4.4	14.6
04/23/26	22:16	3.4	5.5	2.9	2.7	25,663,868.0	860.9	76.7	14.2	0.016	4.6	4.3	14.6
04/23/26	22:17	3.4	5.2	2.7	2.6	25,778,344.7	861.9	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:18	3.4	5.3	2.9	2.7	25,760,356.1	859.3	76.8	14.2	0.016	4.7	4.4	14.6
04/23/26	22:19	3.4	5.3	2.9	2.7	25,786,134.6	862.2	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:20	3.4	5.3	2.9	2.7	25,716,374.7	858.9	76.8	13.8	0.015	4.4	4.2	14.6
04/23/26	22:21	3.4	5.3	2.8	2.7	25,897,546.8	861.2	76.8	13.3	0.015	4.4	4.2	14.7
04/23/26	22:22	3.4	5.2	2.7	2.5	25,778,749.6	860.8	76.7	13.6	0.015	4.4	4.2	14.6
R7													
04/23/26	22:23	3.4	5.3	2.7	2.6	25,802,292.2	860.2	76.8	13.4	0.015	4.4	4.1	14.7
04/23/26	22:24	3.4	5.0	2.7	2.6	25,763,674.0	862.0	76.9	13.9	0.016	4.5	4.2	14.6
04/23/26	22:25	3.4	5.0	2.6	2.5	25,781,393.0	861.3	76.9	14.0	0.016	4.5	4.2	14.6
04/23/26	22:26	3.4	5.0	2.7	2.5	25,707,130.7	860.1	76.9	14.0	0.016	4.5	4.2	14.6
04/23/26	22:27	3.4	4.6	2.6	2.4	25,739,450.4	861.0	76.7	13.9	0.016	4.5	4.2	14.6
04/23/26	22:28	3.4	4.9	2.6	2.4	25,661,919.1	859.1	76.9	14.2	0.016	4.5	4.2	14.6
04/23/26	22:29	3.4	4.9	2.5	2.4	25,722,674.6	861.8	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:30	3.4	4.4	2.4	2.3	25,856,302.1	863.6	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	22:31	3.4	4.4	2.4	2.2	25,624,804.5	859.8	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:32	3.4	4.4	2.5	2.3	25,751,580.7	862.0	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	22:33	3.4	4.4	2.4	2.2	25,690,805.1	859.6	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:34	3.4	4.7	2.5	2.4	25,795,765.7	861.2	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	22:35	3.4	4.4	2.4	2.2	25,806,354.2	863.4	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:36	3.4	4.4	2.5	2.4	25,711,669.6	858.8	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	22:37	3.4	4.9	2.6	2.5	25,779,568.3	860.8	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:38	3.4	5.0	2.7	2.6	25,790,847.7	861.9	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:39	3.4	4.4	2.4	2.2	25,743,374.1	860.2	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:40	3.4	4.7	2.5	2.3	25,796,990.2	861.1	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	22:41	3.4	5.5	2.9	2.7	25,836,329.2	859.9	76.8	14.1	0.016	4.6	4.3	14.7
04/23/26	22:42	3.4	4.6	2.5	2.4	25,722,448.4	860.1	76.9	13.9	0.016	4.5	4.2	14.6
04/23/26	22:43	3.4	4.9	2.6	2.5	25,729,483.6	861.6	76.8	14.2	0.016	4.5	4.2	14.6
04/23/26	22:44	3.4	4.9	2.6	2.5	25,741,842.3	860.9	77.0	14.2	0.016	4.5	4.3	14.6
04/23/26	22:45	3.4	4.9	2.6	2.4	25,760,284.3	861.8	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	22:46	3.4	4.7	2.6	2.4	25,709,223.5	860.5	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	22:47	3.4	4.9	2.5	2.4	25,769,746.3	860.9	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	22:48	3.4	4.6	2.5	2.3	25,770,071.1	861.5	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:49	3.4	5.2	2.7	2.5	25,700,244.8	861.0	76.9	13.7	0.016	4.5	4.2	14.6
04/23/26	22:50	3.4	4.6	2.6	2.5	25,722,447.2	860.6	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	22:51	3.4	5.0	2.7	2.5	25,818,423.6	861.9	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:52	3.4	4.4	2.3	2.2	25,683,728.8	859.3	76.8	14.2	0.016	4.6	4.3	14.6
End R7		3.40	4.75	2.56	2.40	25,747,882	861.0	76.87	14.13	0.0160	4.55	4.27	14.60
04/23/26	22:53	3.4	4.4	2.6	2.4	25,736,476.5	862.2	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	22:54	3.4	5.2	2.7	2.5	25,753,568.7	860.9	76.8	14.2	0.016	4.7	4.4	14.6
04/23/26	22:55	3.4	4.7	2.6	2.5	25,655,152.7	858.3	76.6	14.1	0.016	4.7	4.4	14.6
04/23/26	22:56	3.4	4.9	2.7	2.5	25,717,820.6	862.8	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	22:57	3.4	5.3	2.8	2.6	25,713,071.1	861.1	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:58	3.4	5.3	2.8	2.6	25,583,808.5	860.6	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	22:59	3.4	5.5	2.9	2.8	25,705,180.4	861.0	76.7	14.2	0.016	4.6	4.3	14.6
04/23/26	23:00	3.4	5.3	2.9	2.7	25,701,064.9	859.5	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	23:01	3.4	5.6	3.1	2.9	25,717,591.1	860.4	76.6	14.2	0.016	4.6	4.3	14.6
04/23/26	23:02	3.4	5.6	2.8	2.8	25,700,319.1	858.2	76.6	14.1	0.016	4.5	4.3	14.6
04/23/26	23:03	3.4	4.9	2.6	2.4	25,930,715.3	861.5	77.0	13.3	0.015	4.4	4.2	14.7
04/23/26	23:04	3.4	5.5	3.0	2.8	25,833,632.1	862.5	76.8	14.2	0.016	4.5	4.2	14.6
04/23/26	23:05	3.4	5.3	2.8	2.7	25,813,174.7	860.3	76.9	14.0	0.016	4.5	4.2	14.7
R8													
04/23/26	23:06	3.4	5.2	2.8	2.6	25,774,249.0	859.6	76.7	14.2	0.016	4.5	4.3	14.7
04/23/26	23:07	3.4	4.9	2.6	2.5	25,828,215.8	859.6	76.7	14.2	0.016	4.5	4.3	14.7
04/23/26	23:08	3.4	5.2	2.7	2.6	25,790,046.1	859.5	76.8	14.2	0.016	4.5	4.3	14.7
04/23/26	23:09	3.4	4.9	2.5	2.4	25,954,446.7	863.1	76.9	14.2	0.016	4.5	4.3	14.7
04/23/26	23:10	3.4	4.4	2.5	2.4	25,789,047.6	860.4	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	23:11	3.4	5.0	2.7	2.5	25,682,141.7	860.6	76.8	14.2	0.016	4.5	4.3	14.6

F = Unit Offline

E = Exceedance

C = Calibration

S = Substituted

M = Maintenance

T = Out Of Control

* = Suspect

U = Startup

Report Generated: 04/15/25

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17

Time Online Criteria: 1 minute(s)

04/23/26	23:12	3.4	4.5	2.5	2.4	25,692,776.4	862.0	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:13	3.4	4.7	2.4	2.4	25,697,915.4	859.4	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:14	3.4	4.8	2.6	2.4	25,791,639.1	863.1	77.0	14.2	0.016	4.5	4.3	14.6
04/23/26	23:15	3.4	5.2	2.8	2.6	25,652,582.5	860.7	76.8	14.0	0.016	4.5	4.2	14.6
04/23/26	23:16	3.4	4.9	2.7	2.5	25,705,400.5	859.8	76.9	14.0	0.016	4.5	4.2	14.6
04/23/26	23:17	3.4	5.0	2.6	2.5	25,701,161.7	862.1	76.9	14.2	0.016	4.5	4.2	14.6
04/23/26	23:18	3.4	4.4	2.4	2.2	25,590,896.4	858.9	76.9	14.1	0.016	4.5	4.3	14.6
04/23/26	23:19	3.4	4.7	2.6	2.4	25,738,868.3	862.0	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	23:20	3.4	4.6	2.5	2.4	25,831,958.3	862.3	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:21	3.4	4.4	2.5	2.3	25,669,824.0	859.1	76.9	14.1	0.016	4.5	4.3	14.6
04/23/26	23:22	3.4	4.7	2.6	2.5	25,724,216.2	861.5	76.8	14.0	0.016	4.5	4.2	14.6
04/23/26	23:23	3.4	4.7	2.6	2.4	25,566,764.3	860.3	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	23:24	3.4	4.6	2.5	2.4	25,605,589.8	859.1	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:25	3.4	4.4	2.5	2.4	25,745,854.5	861.9	76.7	14.2	0.016	4.6	4.3	14.6
04/23/26	23:26	3.4	4.4	2.5	2.4	25,680,106.7	858.6	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	23:27	3.4	4.6	2.5	2.4	25,668,857.0	859.5	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	23:28	3.4	4.4	2.5	2.3	25,758,917.2	862.0	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	23:29	3.4	4.7	2.5	2.4	25,625,793.8	858.8	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	23:30	3.4	4.6	2.4	2.3	25,847,415.2	861.7	76.8	14.2	0.016	4.6	4.3	14.7
04/23/26	23:31	3.4	4.4	2.4	2.3	25,864,683.3	861.0	76.8	14.2	0.016	4.6	4.4	14.7
04/23/26	23:32	3.4	4.6	2.6	2.4	25,767,561.2	860.4	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	23:33	3.4	5.2	2.6	2.5	25,848,282.7	863.2	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	23:34	3.4	4.9	2.6	2.5	25,821,238.4	862.0	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	23:35	3.4	4.6	2.6	2.4	25,755,952.9	861.2	76.8	14.2	0.016	4.6	4.3	14.6
End R8													
04/23/26	23:36	3.4	4.7	2.6	2.5	25,740,277.8	860.4	76.7	14.2	0.016	4.5	4.3	14.6
04/23/26	23:37	3.4	4.7	2.6	2.4	25,738,870.5	860.0	76.9	14.2	0.016	4.7	4.4	14.6
04/23/26	23:38	3.4	5.0	2.7	2.5	25,723,512.9	861.2	76.8	14.8	0.016	4.7	4.5	14.6
04/23/26	23:39	3.4	5.2	2.7	2.5	25,655,513.9	860.6	76.9	14.2	0.016	4.7	4.4	14.6
04/23/26	23:40	3.4	4.7	2.7	2.5	25,693,956.9	860.2	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	23:41	3.4	5.5	3.0	2.8	25,809,367.7	862.5	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	23:42	3.4	5.6	2.8	2.7	25,661,828.6	859.6	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:43	3.4	5.5	2.9	2.7	25,848,705.4	862.4	77.0	14.2	0.016	4.5	4.3	14.6
04/23/26	23:44	3.4	5.9	3.0	2.9	25,640,651.3	859.4	76.8	14.2	0.016	4.5	4.2	14.6
04/23/26	23:45	3.4	5.2	2.8	2.6	25,677,094.2	858.7	76.8	14.1	0.016	4.6	4.3	14.6
04/23/26	23:46	3.4	5.2	2.8	2.6	25,802,044.7	861.9	76.8	13.6	0.015	4.4	4.2	14.6
04/23/26	23:47	3.4	4.9	2.7	2.6	25,749,979.8	859.9	76.8	13.9	0.016	4.5	4.2	14.6
04/23/26	23:48	3.4	5.2	2.7	2.5	25,716,963.2	859.4	76.7	14.0	0.016	4.5	4.2	14.6
04/23/26	23:49	3.4	5.3	2.8	2.6	25,868,726.3	862.0	76.8	13.5	0.015	4.4	4.2	14.7
04/23/26	23:50	3.4	5.0	2.6	2.5	25,743,336.3	860.5	76.9	14.2	0.016	4.5	4.3	14.6
R9													
04/23/26	23:51	3.4	4.6	2.6	2.4	25,687,947.3	861.3	76.9	14.2	0.016	4.5	4.2	14.6
04/23/26	23:52	3.4	4.9	2.6	2.5	25,759,619.3	861.3	76.9	14.2	0.016	4.5	4.3	14.6
04/23/26	23:53	3.4	4.6	2.5	2.4	25,656,171.3	860.0	76.8	14.2	0.016	4.5	4.2	14.6
04/23/26	23:54	3.4	4.5	2.5	2.4	25,740,605.7	862.7	76.8	14.2	0.016	4.5	4.3	14.6
04/23/26	23:55	3.4	5.0	2.6	2.5	25,731,909.3	862.7	77.0	14.2	0.016	4.6	4.3	14.6
04/23/26	23:56	3.4	4.4	2.5	2.3	25,717,492.5	862.2	76.9	14.2	0.016	4.5	4.2	14.6
04/23/26	23:57	3.4	4.5	2.5	2.3	25,837,215.1	863.5	76.8	14.2	0.016	4.6	4.3	14.6
04/23/26	23:58	3.4	4.7	2.4	2.4	25,653,735.5	860.4	76.9	14.2	0.016	4.6	4.3	14.6
04/23/26	23:59	3.4	4.4	2.4	2.2	25,852,880.6	863.2	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:00	3.4	4.4	2.5	2.3	25,816,198.7	860.7	76.8	14.2	0.016	4.6	4.4	14.6
04/24/26	00:01	3.4	4.7	2.5	2.4	25,706,894.4	860.9	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:02	3.4	4.5	2.5	2.3	25,862,298.1	864.8	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	00:03	3.4	4.4	2.4	2.3	25,689,516.3	861.3	76.9	14.2	0.016	4.7	4.4	14.6
04/24/26	00:04	3.4	4.6	2.6	2.4	25,651,875.1	860.8	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:05	3.4	5.1	2.7	2.6	25,683,007.1	860.0	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:06	3.4	4.4	2.5	2.3	25,608,942.4	857.7	76.7	14.1	0.016	4.5	4.2	14.6
04/24/26	00:07	3.4	4.6	2.5	2.4	25,758,170.2	862.8	76.9	14.2	0.016	4.5	4.2	14.6
04/24/26	00:08	3.4	4.9	2.7	2.5	25,662,839.4	860.1	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:09	3.4	4.7	2.6	2.5	25,726,934.0	860.1	76.7	14.2	0.016	4.5	4.3	14.6
04/24/26	00:10	3.4	4.7	2.6	2.5	25,781,784.5	862.1	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:11	3.4	5.1	2.6	2.5	25,656,306.9	859.8	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:12	3.4	4.7	2.6	2.4	25,735,816.6	860.2	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:13	3.4	4.9	2.6	2.5	25,686,917.1	861.1	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:14	3.4	4.4	2.5	2.4	25,649,971.0	859.3	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:15	3.4	4.6	2.6	2.4	25,811,598.1	864.2	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	00:16	3.4	4.9	2.6	2.4	25,835,135.5	861.6	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:17	3.4	4.7	2.5	2.4	25,742,158.0	861.9	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:18	3.4	4.4	2.5	2.3	25,760,900.4	863.5	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:19	3.4	4.4	2.5	2.4	25,745,795.5	861.2	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:20	3.4	4.8	2.6	2.5	25,858,632.3	863.6	77.0	14.2	0.016	4.5	4.3	14.7
End R9													
04/24/26	00:21	3.4	4.9	2.6	2.5	25,775,331.2	859.8	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:22	3.4	5.2	2.7	2.6	25,615,637.4	858.7	76.8	14.1	0.016	4.6	4.3	14.6
04/24/26	00:23	3.4	4.7	2.5	2.4	25,735,531.4	863.7	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:24	3.4	5.0	2.7	2.6	25,628,125.2	858.4	76.7	14.1	0.016	4.6	4.4	14.6
04/24/26	00:25	3.4	5.3	2.9	2.7	25,755,492.9	861.7	77.0	14.2	0.016	4.6	4.4	14.6
04/24/26	00:26	3.4	5.3	2.9	2.7	25,744,464.5	861.4	76.8	14.2	0.016	4.6	4.4	14.6
04/24/26	00:27	3.4	5.2	2.8	2.6	25,710,905.0	860.9	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	00:28	3.4	5.6	2.9	2.8	25,771,783.9	861.8	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:29	3.4	5.6	3.0	2.8	25,706,161.2	859.6	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:30	3.4	5.3	2.9	2.7	25,752,174.2	859.2	76.8	14.0	0.016	4.5	4.3	14.7
04/24/26	00:31	3.4	5.3	2.8	2.7	25,711,651.2	859.4	76.7	13.7	0.016	4.5	4.2	14.6
R10													
04/24/26	00:32	3.4	5.0	2.7	2.5	25,747,266.9	860.5	77.0	13.7	0.016	4.5	4.2	14.6

F = Unit Offline

E = Exceedance

C = Calibration

S = Substituted

M = Maintenance

T = Out Of Control

* = Suspect

U = Startup

Report Generated: 04/15/25

Average Data

Plant: Midway Sunset
Interval: 1 Minute

Type: Roll

Report Period: 04/23/2026 17:50 Through 04/24/2026 01:17
Time Online Criteria: 1 minute(s)

04/24/26	00:33	3.4	4.9	2.6	2.5	25,723,487.4	859.9	76.7	14.2	0.016	4.5	4.3	14.6
04/24/26	00:34	3.4	4.4	2.5	2.4	25,680,745.6	860.9	76.8	14.2	0.016	4.5	4.2	14.6
04/24/26	00:35	3.4	4.6	2.6	2.4	25,674,832.9	859.1	76.9	14.1	0.016	4.5	4.3	14.6
04/24/26	00:36	3.4	4.7	2.6	2.4	25,774,478.1	862.4	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:37	3.4	5.0	2.7	2.5	25,637,598.4	858.8	76.8	14.1	0.016	4.5	4.2	14.6
04/24/26	00:38	3.4	4.7	2.6	2.4	25,702,722.9	859.4	76.7	14.2	0.016	4.6	4.3	14.6
04/24/26	00:39	3.4	4.6	2.6	2.4	25,692,375.4	861.8	76.9	14.2	0.016	4.5	4.2	14.6
04/24/26	00:40	3.4	4.9	2.6	2.5	25,582,688.8	858.1	76.8	14.1	0.016	4.5	4.2	14.6
04/24/26	00:41	3.4	4.9	2.8	2.6	25,655,539.8	861.3	76.9	14.2	0.016	4.5	4.2	14.6
04/24/26	00:42	3.4	5.0	2.6	2.6	25,660,363.0	860.6	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:43	3.4	4.9	2.7	2.5	25,791,007.1	861.2	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:44	3.4	5.3	2.8	2.6	25,733,702.4	861.7	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:45	3.4	4.7	2.5	2.3	25,771,988.4	860.8	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:46	3.4	5.3	2.9	2.7	25,716,498.2	859.6	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	00:47	3.4	4.9	2.7	2.5	25,769,232.3	862.2	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:48	3.4	5.3	2.8	2.6	25,692,183.4	859.2	76.7	14.2	0.016	4.5	4.3	14.6
04/24/26	00:49	3.4	5.0	2.6	2.5	25,857,488.0	861.7	76.8	14.0	0.016	4.5	4.2	14.7
04/24/26	00:50	3.4	4.4	2.5	2.3	25,828,060.8	861.4	76.9	14.2	0.016	4.5	4.3	14.7
04/24/26	00:51	3.4	5.0	2.8	2.6	25,734,220.8	860.1	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	00:52	3.4	4.6	2.5	2.4	25,765,586.5	861.4	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:53	3.4	4.4	2.5	2.3	25,748,468.7	860.0	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	00:54	3.4	4.6	2.4	2.3	25,725,966.7	861.1	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	00:55	3.4	4.7	2.7	2.4	25,747,048.4	861.9	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	00:56	3.4	5.3	2.8	2.7	25,737,067.3	859.0	76.8	14.1	0.016	4.6	4.3	14.6
04/24/26	00:57	3.4	4.7	2.5	2.4	25,855,556.9	862.5	77.0	14.2	0.016	4.5	4.3	14.6
04/24/26	00:58	3.4	4.4	2.6	2.4	25,723,602.8	861.7	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	00:59	3.4	4.7	2.6	2.5	25,728,745.6	859.0	76.9	14.1	0.016	4.5	4.3	14.6
04/24/26	01:00	3.4	5.0	2.6	2.5	25,862,719.8	863.3	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	01:01	3.4	4.4	2.4	2.2	25,735,030.2	860.9	77.0	14.2	0.016	4.6	4.3	14.6
End R10		3.40	4.80	2.62	2.46	25,734,793	860.7	76.86	14.18	0.0160	4.54	4.28	14.61
04/24/26	01:02	3.4	4.9	2.6	2.5	25,776,032.3	861.0	76.8	14.2	0.016	4.5	4.3	14.6
04/24/26	01:03	3.4	5.2	2.8	2.6	25,643,795.2	859.1	76.7	14.1	0.016	4.6	4.3	14.6
04/24/26	01:04	3.4	5.0	2.7	2.5	25,678,970.2	859.1	76.8	14.1	0.016	4.7	4.4	14.6
04/24/26	01:05	3.4	5.2	2.7	2.6	25,738,093.9	861.1	76.8	14.2	0.016	4.7	4.4	14.6
04/24/26	01:06	3.4	5.3	2.9	2.7	25,730,924.8	860.1	76.8	14.2	0.016	4.6	4.4	14.6
04/24/26	01:07	3.4	4.8	2.6	2.5	25,699,405.7	858.9	76.7	14.1	0.016	4.6	4.4	14.6
04/24/26	01:08	3.4	5.0	2.7	2.5	25,856,247.8	863.9	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	01:09	3.4	5.2	2.8	2.6	25,519,707.7	858.9	76.9	14.1	0.016	4.5	4.3	14.6
04/24/26	01:10	3.4	5.9	3.1	3.0	25,692,128.1	860.2	76.9	14.2	0.016	4.5	4.3	14.6
04/24/26	01:11	3.4	6.1	3.1	2.9	25,701,381.3	861.3	76.9	14.2	0.016	4.6	4.3	14.6
04/24/26	01:12	3.4	5.7	3.0	2.8	25,685,765.5	858.6	76.8	14.1	0.016	4.6	4.3	14.6
04/24/26	01:13	3.4	5.3	2.9	2.7	25,736,464.5	860.9	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	01:14	3.4	5.3	2.9	2.7	25,812,865.3	863.2	77.1	14.2	0.016	4.6	4.3	14.6
04/24/26	01:15	3.4	5.3	2.8	2.7	25,674,204.3	860.1	77.0	14.2	0.016	4.6	4.3	14.6
04/24/26	01:16	3.4	5.2	2.8	2.6	25,706,931.3	861.4	76.8	14.2	0.016	4.6	4.3	14.6
04/24/26	01:17	3.4	5.3	2.9	2.7	25,706,766.5	859.9	76.8	14.2	0.016	4.6	4.3	14.6
Average		3.4	3.4	1.8	1.7	26,712,802.5	887.3	79.6	14.5	0.016	4.5	4.3	14.6
Minimum		3.3	0.9	0.4	0.4	25,519,707.7	856.5	76.6	13.2	0.014	4.1	3.9	14.6
Maximum		3.4	6.5	3.3	3.1	28,516,235.4	936.4	84.5	19.9	0.021	6.1	5.9	14.8
Summation		1,519.8	1,529.5	821.2	775.9	11,967,335,523	397,517.0	35,639.7	6,512.6	7.127	2,032.8	1,924.7	6,562.8

F = Unit Offline
E = Exceedance
C = Calibration
S = Substituted
M = Maintenance
T = Out Of Control
* = Suspect
U = Startup

Report Generated: 04/15/25

W002AS-066225-RT-8484

85 of 145

Appendix C

Laboratory Analysis Data

Laboratory Analysis Report
PGT Project No. 260234
Case Narrative

General Information

Company: Midway Sunset Cogeneration Company
Project #: Montrose Project No. Proj-066225
Analysis Date(s): April 22-24, 2026
Analyst: LV

<u>Analytical Protocols</u>	<u>Analyses</u>	<u>Analytes</u>
EPA method 18	GC/FID	VOC's
ASTM D1945 [*]	GC/TCD	Fuel Composition
ASTM D3588	Lab Practice	Fuel Heat Content
ASTM 3246	Microcoulometry	Fuel Total Sulfur

^{*}ASTM D1945 is ancillary to ASTM D3588

Sample Receiving: All samples were received intact: All samples were labeled (handwritten) and ID numbers matched those on the chain of custody (printed).

Analytical Notes: No problems were encountered during the receiving, handling, and analysis of any samples.

VOC Sample Set Observations

All samples were colorless and no condensate was visible on the bag inner surface. All bags were at least 80% filled.

Fuel Sample Observations

Sulfur sample (in tedlar bag) was colorless and no condensate was visible on the bag inner surface. All bags were at least 80% filled.

QA/QC Review: All of the data have been reviewed for quality assurance. All of the quality control and sample specific information in this package is complete and meets the minimum requirements for acceptability.

If you have any questions or concerns regarding these analyses, please feel free to contact us at any time.

4830 Burr Street Suite D Bakersfield CA 93308 · Phone 661.324.1317 · Fax 661.324.3310



Laboratory Certification Statements

I certify that to the best of my knowledge:

- Test data and all corresponding information have been checked for accuracy and completeness.
- Analyses have been conducted in accordance with the terms and conditions specified in the contract
- All deviations, method modifications, or analytical anomalies are summarized in the appropriate report narrative(s).
- Analysis results only represent that of the sample as received into the laboratory.
- This document contains a total of 12 pages.

This test report shall not be reproduced except in full, without the written approval of the laboratory.

Lou Villaruz

Lou Villaruz 5/8/2025
Analyst Date

Paul Sabovich

Approved

Paul Sabovich 5/8/2025
QA Supervisor Date

4830 Burr Street Suite D Bakersfield CA 93308 · Phone 661.324.1317 · Fax 661.324.3310



Appendix C.1

VOC Analyses

Attention: Jim Polhamus
 Montrose Air Quality Services
 19479 Creek Road
 Bakersfield, CA 93314

 Sampled: 4/23/2026
 Submitted: 4/24/2026
 Analyzed: 4/24/2026
 Reported: 5/08/2026

EPA 18 - Volatile Organic Compounds

Name:	Midway Sunset Cogen Co.	Lab No.:	260234
Location:	HRSG Out	Client Proj No.	proj-026225
Source:	Unit C		

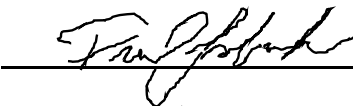
Client ID:	1-VOC-C	2-VOC-C	3-VOC-C
PGT Lab ID:	260234-9	260234-10	260234-11

C1	Methane	4.48	5.49	3.94
	NMHC1	ND	ND	ND
C2	Ethane	ND	ND	ND
	NMHC2	ND	ND	ND
C3	Propane	ND	ND	ND
	NMHC3	ND	ND	ND
C4	n-Butane	ND	ND	ND
	NMHC4	ND	ND	ND
C5	n-Pentane	ND	ND	ND
	NMHC5	ND	ND	ND
C6	n-Hexane	ND	ND	ND
	C6+	ND	ND	ND

ND< 0.5 ppmv as Methane

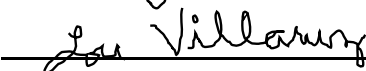
Results Depicted as ppmv

QA Supervisor



Approved

Analyst



CHAIN OF CUSTODY

Bakersfield Location
19479 Creek Road,
Bakersfield, CA 93314
(661) 437-4164

Lab info: PCIT
4830 BURN STREET, SUITE D
BAKERSFIELD, CA 93308

Client / Project: MIDWAY SUNSET COGEN		Project / Sample Location: UNIT C		Test / Analytical Method: EPA-18 / ASTM D1945 / 03588 / 3246				
Project No.: PROJ-066225		Purchase Order No:		Special Analysis / Reporting Instructions:				
Send Analytical Report To: jpolhamus@montrose-env.com		Sampler or PM Signature: SERENO FIGUEROA [Signature]						
Run / Sample No.	Date	Time	Containers	Sample Fraction	Reagent	Lab / Sample ID No.		
1-VOC-C	4/24/26	1755	1	TEDLAR BAG				
2-VOC-C	4/24/26	1840	1	↓				
3-VOC-C	4/24/26	1925	1					
4-VOC-FG	4/24/26		1					
Total Containers			4					
Relinquished by Jorge Ochoa			Date 4-24-26	Time 0900	Received by [Signature]	Date 4,24,26	Time 0900	Temp.
Relinquished by			Date	Time	Received by	Date	Time	Temp.
Relinquished by			Date	Time	Received by	Date	Time	Temp.

Appendix C.2

Fuel Gas Analyses



4830 Burr Street 'D'
Bakersfield, CA 93308
(661) 324-1317
(661) 324-3310

pgtech@pacificgastech.com

Montrose AQS
19479 Creek Road
Bakersfield, CA 93314
Attention: Jim Polhamus

Sampled: 4/23/2026
Submitted: 4/24/2026
Analyzed: 4/24/2026
Reported: 5/8/2026

Gas Analysis by Chromatography - ASTM D 1945/D 3588

Description: Unit C Fuel Lab No.: 260234-12
Location: Midway Sunset Cogen Pressure, psi: -
Client ID: NG-Outlet C Temperature, °F: -

Component	Mole %	Weight %	G/MCF	
Oxygen	0.25	0.46		
Nitrogen	0.77	1.27		
Carbon Dioxide	0.88	2.26		
Hydrogen	ND	0.00		
Carbon Monoxide	ND	0.00		
Hydrogen Sulfide	ND	0.00		
Methane	94.01	88.57		
Ethane	3.86	6.82		
Propane	0.24	0.61		0.065
iso-Butane	ND	0.00		0.000
n-Butane	ND	0.00		0.000
iso-Pentane	ND	0.00		0.000
n-Pentane	ND	0.00		0.000
Hexanes Plus	ND	0.00		0.000
Totals	100.00	100.00		0.065
Specific Volume, ft³/lb	22.29	Values Corrected for Compressibility	CHONS	Weight %
Compressibility (Z) Factor	0.9978			
Specific Gravity, Calculated	0.5879	0.5890	Carbon	72.877
GROSS	LHV	HHV	Hydrogen	23.743
			Oxygen	2.109
			Nitrogen	1.271
			Sulfur	0.000
BTU/ft3	Dry	1023.8	1026.0	
	Wet	1005.9	1008.0	
BTU/lb	Dry	22815.8	22865.2	
BTU/lb	Wet	22416.5	22465.1	
NET			F FACTOR @	8622
			68 deg F, dscf/MMBTU	
			F FACTOR @	8492
			60 deg F, dscf/MMBTU	
BTU/ft3	Dry	922.9	924.9	
	Wet	906.7	908.7	
BTU/lb	Dry	20567.6	20612.2	
BTU/lb	Wet	20207.6	20251.5	
	Hydrogen Sulfide, ppm	Not Tested	Method	GC/FPD
	Total Sulfur as H₂S, gr/100 scf	0.036	Method	ASTM D3246
	Dew Point, deg F	Not Tested	Method	Bureau of Mines
	Molecular Weight	17.03		
ND : None Detected			Tr : Trace	

ND : None Detected

Tr : Trace

QA Supervisor Tom Polhamus Approved
Analyst Lou Villanueva

Appendix D

Quality Assurance/Quality Control

Appendix D.1

Units and Abbreviations

UNITS AND ABBREVIATIONS

@ X% O ₂	corrected to X% oxygen (corrected for dilution air)
CC	absolute value of the confidence coefficient
d	absolute value of the mean differences
°C	degrees Celsius (centigrade)
°F	degrees Fahrenheit
°R	degrees Rankine
" H ₂ O	inches of water column
13.6	specific gravity of mercury
ΔH	pressure drop across orifice meter, inches H ₂ O
ΔP	velocity head of stack gas, inches H ₂ O
θ	total sampling time, minutes
μg	microgram
ρ _a	density of acetone, mg/ml
ρ _w	density of water, 0.9982 g/ml or 0.002201 lb/ml
acfm	actual cubic feet of gas per minute at stack conditions
A _n	cross-sectional area of nozzle, ft ²
A _s	cross-sectional area of stack, square feet (ft ²)
Btu	British thermal unit
B _{ws}	proportion by volume of water vapor in gas stream
C _a	particulate matter concentration in stack gas, gr/acf
C _{Avg}	average unadjusted gas concentration, ppmv
C _{Dir}	measured concentration of calibration gas, ppmv
cf or ft ³	cubic feet
cfm	cubic feet per minute
C _{Gas}	average gas concentration adjusted for bias, ppmv
C _M	average of initial and final system bias check responses from upscale calibration gas, ppmv
cm or m ³	cubic meters
C _{MA}	actual concentration of the upscale calibration gas, ppmv
C _O	average of initial and final system bias check responses from low-level calibration gas, ppmv
C _p	pitot tube coefficient
C _s	particulate matter concentration in stack gas, gr/dscf
CS	calibration span, % or ppmv
C _S	measured concentration of calibration gas, ppmv
C _V	manufactured certified concentration of calibration gas, ppmv
D	drift assessment, % of span
dcf	dry cubic feet
dcm	dry cubic meters
D _n	diameter of nozzle, inches
D _s	diameter of stack, inches
dscf	dry standard cubic feet
dscfm	dry standard cubic feet per minute
dscm	dry standard cubic meters
F _d	F-factor, dscf/MMBtu of heat input
fpm	feet per minute
fps	feet per second
ft	feet
ft ²	square feet
g	gram
gal	gallons
gr	grains (7000 grains per pound)

UNITS AND ABBREVIATIONS

gr/dscf	grains per dry standard cubic feet
hr	hour
I	percent of isokinetic sampling
in	inch
k	kilo or thousand (metric units, multiply by 10^3)
K	kelvin (temperature)
K_3	conversion factor 0.0154 gr/mg
K_4	conversion factor 0.002669 ((in. Hg)(ft ³))/((ml)(°R))
kg	kilogram
K_p	pitot tube constant (85.49 ft/sec)
kwscfh	thousand wet standard cubic feet per hour
l	liters
lb/hr	pounds per hour
lb/MMBtu	pounds per million Btu
lpm	liters per minute
m	meter or milli
M	thousand (English units) or mega (million, metric units)
m ³	cubic meters
m_a	mass of residue of acetone after evaporation, mg
M_d	molecular weight of stack gas; dry basis, lb/lb-mole
meq	milliequivalent
mg	milligram
Mg	megagram (10^6 grams)
min	minute
ml or mL	milliliter
mm	millimeter
MM	million (English units)
MMBtu/hr	million Btu per hour
m_n	total amount of particulate matter collected, mg
mol	mole
mol. wt. or MW	molecular weight
M_s	molecular weight of stack gas; wet basis, lb/lb-mole
MW	molecular weight or megawatt
n	number of data points
ng	nanogram
nm	nanometer
P_{bar}	barometric pressure, inches Hg
pg	picogram
P_g	stack static pressure, inches H ₂ O
P_m	barometric pressure of dry gas meter, inches Hg
ppb	parts per billion
ppbv	parts per billion, by volume
ppbvd	parts per billion by volume, dry basis
ppm	parts per million
ppmv	parts per million, by volume
ppmvd	parts per million by volume, dry basis
P_s	absolute stack gas pressure, inches Hg
psi	pounds per square inch
psia	pounds per square inch absolute
psig	pounds per square inch gauge
P_{std}	standard absolute pressure, 29.92 inches Hg
Q_a	volumetric flow rate, actual conditions, acfm

UNITS AND ABBREVIATIONS

Q_s	volumetric flow rate, standard conditions, scfm
Q_{std}	volumetric flow rate, dry standard conditions, dscfm
R	ideal gas constant 21.85 ((in. Hg) (ft ³))/((°R) (lbmole))
SB_{final}	post-run system bias check, % of span
SB_i	pre-run system bias check, % of span
scf	standard cubic feet
scfh	standard cubic feet per hour
scfm	standard cubic feet per minute
scm	standard cubic meters
scmh	standard cubic meters per hour
sec	second
sf, sq. ft., or ft ²	square feet
std	standard
t	metric ton (1000 kg)
$T_{0.975}$	t-value
T_a	absolute average ambient temperature, °R (+460 for English)
T_m	absolute average dry gas meter temperature, °R (+460 for English)
ton or t	ton = 2000 pounds
tpH or tons/hr	tons per hour
tpy or tons/yr	tons per year
T_s	absolute average stack gas meter temperature, °R (+460 for English)
T_{std}	absolute temperature at standard conditions
V	volt
V_a	volume of acetone blank, ml
V_{aw}	volume of acetone used in wash, ml
V_{lc}	total volume H ₂ O collected in impingers and silica gel, grams
V_m	volume of gas sampled through dry gas meter, ft ³
$V_{m(std)}$	volume of gas measured by the dry gas meter, corrected to standard conditions, dscf
V_{ma}	stack gas volume sampled, acf
V_n	volume collected at stack conditions through nozzle, acf
V_s	average stack gas velocity, feet per second
$V_{wc(std)}$	volume of water vapor condensed, corrected to standard conditions, scf
$V_{wi(std)}$	volume of water vapor in gas sampled from impingers, scf
$V_{wsg(std)}$	volume of water vapor in gas sampled from silica gel, scf
W	watt
W_a	weight of residue in acetone wash, mg
W_{imp}	total weight of impingers, grams
W_{sg}	total weight of silica gel, grams
Y	dry gas meter calibration factor, dimensionless

ACRONYMS

AAS	atomic absorption spectroscopy
ACDP	air contaminant discharge permit
ACE	analyzer calibration error, percent of span
AD	absolute difference
ADL	above detection limit
AETB	Air Emissions Testing Body
AS	applicable standard (emission limit)
ASTM	American Society For Testing And Materials
BACT	best achievable control technology
BDL	below detection limit
BHP	brake horsepower
BIF	boiler and industrial furnace
BLS	black liquor solids
CC	confidence coefficient
CD	calibration drift
CE	calibration error
CEM	continuous emissions monitor
CEMS	continuous emissions monitoring system
CERMS	continuous emissions rate monitoring system
CET	calibration error test
CFR	Code of Federal Regulations
CGA	cylinder gas audit
CHNOS	elemental analysis for determination of C, H, N, O, and S content in fuels
CNCG	concentrated non-condensable gas
CO	catalytic oxidizer
COC	chain of custody
COMS	continuous opacity monitoring system
CPM	condensible particulate matter
CPMS	continuous parameter monitoring system
CT	combustion turbine
CTM	conditional test method
CTO	catalytic thermal oxidizer
CVAAS	cold vapor atomic absorption spectroscopy
D _e	equivalent diameter
DE	destruction efficiency
Dioxins	polychlorinated dibenzo-p-dioxins (pcdd's)
DLL	detection level limited
DNCG	dilute non-condensable gas
ECD	electron capture detector
EIT	Engineer In Training
ELCD	electroconductivity detector (hall detector)
EMPC	estimated maximum possible concentration
EPA	US Environmental Protection Agency
EPRI	Electric Power Research Institute
ES	emission standard (applicable limit)
ESP	electrostatic precipitator
EU	emission unit
FCCU	fluid catalytic cracking unit
FGD	flue gas desulfurization
FI	flame ionization
FIA	flame ionization analyzer
FID	flame ionization detector
FPD	flame photometric detector
FPM	filterable particulate matter

ACRONYMS

FTIR	Fourier-transform infrared spectroscopy
FTPb	field train proof blank
FTRB	field train recovery blank
Furans	polychlorinated dibenzofurans (pcdf's)
GC	gas chromatography
GC/MS	gas chromatography/mass spectroscopy
GFAAS	graphite furnace atomic absorption spectroscopy
GFC	gas filter correlation
GHG	greenhouse gas
HAP	hazardous air pollutant
HC	hydrocarbons
HHV	higher heating value
HPLC	high performance liquid chromatography
HRGC/HRMS	high-resolution gas chromatography/high-resolution mass spectroscopy
HRSG	heat recovery steam generator
IC	ion chromatography
ICAP	inductively-coupled argon plasmography
ICPCR	ion chromatography with a post-column reactor
IR	infrared radiation
ISO	International Standards Organization
kW	kilowatts
LFG	landfill gas
LHV	lower heating value
LPG	liquified petroleum gas
MACT	maximum achievable control technology
MDI	methylene diphenyl diisocyanate
MDL	method detection limit
MNOC	maximum normal operating conditions
MRL	method reporting limit
MS	mass spectrometry
NA	not applicable or not available
NCASI	National Council For Air And Steam Improvement
NCG	non-condensable gases
NDIR	non-dispersive infrared
NESHAP	National Emissions Standards For Hazardous Air Pollutants
NG	natural gas
NIOSH	National Institute For Occupational Safety And Health
NIST	National Institute Of Standards And Technology
NMC	non-methane cutter
NMOC	non-methane organic compounds
NMVOC	non-methane volatile organic compounds
NPD	nitrogen phosphorus detector
NSPS	New Source Performance Standards
OSHA	Occupational Safety And Health Administration
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl compounds
PCWP	plywood and composite wood products
PE	Professional Engineer
PFAS	per- and polyfluoroalkyl substances (PFAS)
PI	photoionization
PID	photoionization detector
PM	particulate matter
PM ₁₀	particulate matter less than 10 microns in aerodynamic diameter
PM _{2.5}	particulate matter less than 2.5 microns in aerodynamic diameter

ACRONYMS

POM	polycyclic organic matter
PS	performance specification
PSD	particle size distribution
PSEL	plant site emission limits
PST	performance specification test
PTE	permanent total enclosure
PTM	performance test method
QA/QC	quality assurance and quality control
QI	Qualified Individual
QSTI	Qualified Source Testing Individual
RA	relative accuracy
RAA	relative accuracy audit
RACT	reasonably available control technology
RATA	relative accuracy test audit
RCTO	rotary concentrator thermal oxidizer
RICE	stationary reciprocating internal combustion engine
RM	reference method
RTO	regenerative thermal oxidizer
SAM	sulfuric acid mist
SCD	sulfur chemiluminescent detector
SCR	selective catalytic reduction system
SD	standard deviation
Semi-VOST	semivolatile organic compounds sample train
SRM	standard reference material
TAP	toxic air pollutant
TBD	to be determined
TCA	thermal conductivity analyzer
TCD	thermal conductivity detector
TGNENMOC	total gaseous non-ethane non-methane organic compounds
TGNMOC	total gaseous non-methane organic compounds
TGOC	total gaseous organic compounds
THC	total hydrocarbons
TIC	tentatively identified compound
TO	thermal oxidizer
TO	toxic organic (as in EPA Method TO-15)
TPM	total particulate matter
TSP	total suspended particulate matter
TTE	temporary total enclosure
ULSD	ultra-low sulfur diesel
UV	ultraviolet radiation range
VE	visible emissions
VOC	volatile organic compounds
VOST	volatile organic sample train
WC	water column
WWTP	waste water treatment plant

CHEMICAL NOMENCLATURE

Ag	silver	SO ₂	sulfur dioxide
As	arsenic	SO ₃	sulfur trioxide
Ba	barium	SO _x	sulfur oxides
Be	beryllium	TCDD	tetrachlorodibenzodioxin
C	carbon	TCDF	tetrachlorodibenzofuran
Cd	cadmium	TGOC	total gaseous organic concentration
CdS	cadmium sulfide	THC	total hydrocarbons
CH ₂ O	formaldehyde	Tl	thallium
CH ₃ CHO	acetaldehyde	TRS	total reduced sulfur compounds
CH ₃ OH	methanol	Zn	zinc
CH ₄	methane		
C ₂ H ₄ O	ethylene oxide		
C ₂ H ₆	ethane		
C ₃ H ₄ O	acrolein		
C ₃ H ₆ O	propionaldehyde		
C ₃ H ₈	propane		
C ₆ H ₅ OH	phenol		
Cl ₂	chlorine		
ClO ₂	chlorine dioxide		
CO	carbon monoxide		
Co	cobalt		
CO ₂	carbon dioxide		
Cr	chromium		
Cu	copper		
EtO	ethylene oxide		
EtOH	ethyl alcohol (ethanol)		
H ₂	hydrogen		
H ₂ O	water		
H ₂ O ₂	hydrogen peroxide		
H ₂ S	hydrogen sulfide		
H ₂ SO ₄	sulfuric acid		
HCl	hydrogen chloride		
Hg	mercury		
IPA	isopropyl alcohol		
MDI	methylene diphenyl diisocyanate		
MEK	methyl ethyl ketone		
MeOH	methanol		
Mn	manganese		
N ₂	nitrogen		
NH ₃	ammonia		
Ni	nickel		
NO	nitric oxide		
NO ₂	nitrogen dioxide		
NO _x	nitrogen oxides		
O ₂	oxygen		
P	phosphorus		
Pb	lead		
PCDD	polychlorinated dibenzo-p-dioxins		
PCDF	polychlorinated dibenzofurans		
Sb	antimony		
Se	selenium		

Appendix D.2

Calibration Gas Certs

CERTIFICATE OF ANALYSIS

Grade of Product: CEM-CAL ZERO

Part Number:	NI CZ15A	Reference Number:	48-403347908-1
Cylinder Number:	CC163485	Cylinder Volume:	142.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2000 PSIG
Analysis Date:	May 21, 2025	Valve Outlet:	580
Lot Number:	48-403347908-1		

Expiration Date: May 21, 2033

ANALYTICAL RESULTS

Component	Requested Purity	Certified Concentration
NITROGEN	99.9995 %	99.9995 %
NOX	0.1 PPM	<LDL 0.017 PPM
THC	0.1 PPM	<LDL 0.006 PPM
CARBON MONOXIDE	0.5 PPM	<LDL 0.011 PPM
CARBON DIOXIDE	1.0 PPM	0.075 PPM

Permanent Notes: Airgas certifies that the contents of this cylinder meet the requirements of 40 CFR 72.2

Impurities verified against analytical standards traceable to NIST by weight and/or analysis.



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI84E15A0027	Reference Number:	153-403363725-1
Cylinder Number:	CC288623	Cylinder Volume:	148.0 CF
Laboratory:	124 - Tooele (SAP) - UT	Cylinder Pressure:	2015 PSIG
PGVP Number:	B72025	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	Jun 16, 2025

Expiration Date: Jun 16, 2033

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS					
Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	5.000 %	5.018 %	G1	+/- 1.4% NIST Traceable	06/16/2025
OXYGEN	11.00 %	10.93 %	G1	+/- 0.7% NIST Traceable	06/16/2025
NITROGEN	Balance				

CALIBRATION STANDARDS					
Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	13060411	CC413537	7.489 % CARBON DIOXIDE/NITROGEN	0.6%	Apr 03, 2031
NTRM	11060606	CC338377	14.93 % OXYGEN/NITROGEN	0.2%	Nov 02, 2028

ANALYTICAL EQUIPMENT		
Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Horiba VIA-510 SV4MEUTJ CO2	CO2 NDIR (Dixon)	May 29, 2025
Horiba MPA-510 W603MM58 O2	O2 Paramagnetic (DIXON)	May 29, 2025

Triad Data Available Upon Request



Signature on file

Approved for Release

W002AS-066225-RT-8484

106 of 145

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI70E15A7420	Reference Number:	48-403470822-1
Cylinder Number:	CC317478	Cylinder Volume:	151.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	590
Gas Code:	CO2,O2,BALN	Certification Date:	Oct 28, 2025

Expiration Date: Oct 28, 2033

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON DIOXIDE	8.500 %	8.552 %	G1	+/- 0.6% NIST Traceable	10/28/2025
OXYGEN	21.00 %	21.04 %	G1	+/- 0.4% NIST Traceable	10/27/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	06010637	K004892	7.016 % CARBON DIOXIDE/NITROGEN	+/- 0.5%	Nov 19, 2027
NTRM	22060528	CC745036	23.124 % OXYGEN/NITROGEN	+/-0.2%	Mar 31, 2028

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SIEMENS 6E CO2	NDIR	Sep 30, 2025
SIEMENS OXYMAT 6	PARAMAGNETIC	Sep 29, 2025

Triad Data Available Upon Request



Signature on file

Approved for Release

W002AS-066225-RT-8484

107 of 145

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI99E15A1421	Reference Number:	48-403288290-1
Cylinder Number:	CC308437	Cylinder Volume:	140.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	660
Gas Code:	CO,NO,NOX,BALN	Certification Date:	Mar 25, 2025

Expiration Date: Mar 25, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	5.000 PPM	5.019 PPM	G1	+/- 1.0% NIST Traceable	03/25/2025, 03/25/2025
CARBON MONOXIDE	5.000 PPM	4.999 PPM	G1	+/- 0.9% NIST Traceable	03/25/2025
NITRIC OXIDE	5.000 PPM	4.962 PPM	G1	+/- 1.0% NIST Traceable	03/25/2025, 03/25/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	210604-09	ALM-048219	9.942 PPM CARBON MONOXIDE/NITROGEN	+/- 0.8%	Jul 23, 2027
PRM	C2300301.03B	APE1516632	5.01 PPM NOX/NITROGEN	+/- 0.8%	Feb 01, 2025
NTRM	080121A-27	KAL004293	5.08 PPM NITRIC OXIDE/NITROGEN	+/- 1.0%	Jun 01, 2027
GMIS	080121A-27	KAL004293-NOX	5.08 PPM NOX/NITROGEN	+/- 0.9%	Jun 01, 2027

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Thermo 48i-TLE 1132250557 CO	NDIR	Mar 10, 2025
Thermo 42-iLS 1115848421 NO	Chemiluminescence	Mar 10, 2025
Thermo 42-iLS 1115848421 NOx	Chemiluminescence	Mar 10, 2025

Triad Data Available Upon Request



Signature on file

Approved for Release

W002AS-066225-RT-8484

108 of 145

Page 1 of 1

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI99E15A39A1	Reference Number:	48-403494222-1
Cylinder Number:	CC212465	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	660
Gas Code:	CO,NO,NOX,BALN	Certification Date:	Dec 02, 2025

Expiration Date: Dec 02, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	9.500 PPM	9.367 PPM	G1	+/- 0.9% NIST Traceable	11/21/2025, 12/02/2025
CARBON MONOXIDE	9.500 PPM	9.937 PPM	G1	+/- 0.9% NIST Traceable	11/21/2025
NITRIC OXIDE	9.500 PPM	9.178 PPM	G1	+/- 0.7% NIST Traceable	11/21/2025, 12/02/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	210604-09	ALM-048219	9.942 PPM CARBON MONOXIDE/NITROGEN	+/- 0.8%	Jul 23, 2027
PRM	C2300301.04B	APE1516613	10.00 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Jun 11, 2028
GMIS	CK275-2A	KAL004391	10.14 PPM NITRIC OXIDE/NITROGEN	+/- 0.6%	Jan 10, 2027
PRM	C2300301.04B	APE1516613-NOX	10.01 PPM NOX/NITROGEN	+/- 0.5%	Jun 11, 2028
GMIS	CK275-2A	KAL004391-NOX	10.19 PPM NOX/NITROGEN	+/- 0.6%	Jan 10, 2027

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Thermo 48i-TLE 1132250557 CO	NDIR	Oct 24, 2025
Thermo 42-iLS 1115848421 NO	Chemiluminescence	Dec 01, 2025
Thermo 42-iLS 1115848421 NOx	Chemiluminescence	Dec 01, 2025

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI99E15A0173	Reference Number:	48-403495247-1
Cylinder Number:	CC340026	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32025	Valve Outlet:	660
Gas Code:	CO,NO,NOX,BALN	Certification Date:	Dec 02, 2025

Expiration Date: Dec 02, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	19.00 PPM	19.18 PPM	G1	+/- 1.4% NIST Traceable	11/21/2025, 12/02/2025
CARBON MONOXIDE	19.00 PPM	18.85 PPM	G1	+/- 0.5% NIST Traceable	11/21/2025
NITRIC OXIDE	19.00 PPM	19.18 PPM	G1	+/- 0.7% NIST Traceable	11/21/2025, 12/02/2025
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	20060904	CC714645	26.54 PPM CARBON MONOXIDE/NITROGEN	+/-0.4%	Jun 28, 2027
PRM	12403	APEX1324265	20.00 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Dec 22, 2023
GMIS	DDCK20230828	CC733096	20.27 PPM NITRIC OXIDE/NITROGEN	+/- 0.6%	Aug 28, 2026
PRM	12403	APEX1324265-NOX	20.02 PPM NOX/NITROGEN	+/- 0.5%	Dec 22, 2023
GMIS	DDCK20230828	CC733096-NOX	20.35 PPM NOX/NITROGEN	+/- 0.6%	Aug 28, 2026

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SIEMENS 6E N1R4310 CO	NDIR	Nov 24, 2025
Thermo 42-iLS 1115848421 NO	Chemiluminescence	Dec 01, 2025
Thermo 42-iLS 1115848421 NOx	Chemiluminescence	Dec 01, 2025

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02AI99E15W0018	Reference Number:	48-402776524-1
Cylinder Number:	CC506970	Cylinder Volume:	146.0 CF
Laboratory:	124 - Los Angeles - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32023	Valve Outlet:	660
Gas Code:	NO2,BALA	Certification Date:	Jul 06, 2023

Expiration Date: Jul 06, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted. The results relate only to the items tested. The report shall not be reproduced except in full without approval of the laboratory. Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NITROGEN DIOXIDE AIR	18.00 PPM Balance	18.01 PPM	G1	+/- 2.0% NIST Traceable	06/29/2023, 07/06/2023

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	1534012021301	ND73004	15.05 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Jun 15, 2025
PRM	12409	D913660	15.01 PPM NITROGEN DIOXIDE/AIR	+/- 1.5%	Feb 17, 2023

The SRM, NTRM, PRM, or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
MKS FTIR NO2 018335821	FTIR	Jun 29, 2023

Triad Data Available Upon Request



Signature on file

Approved for Release

W002AS-066225-RT-8484

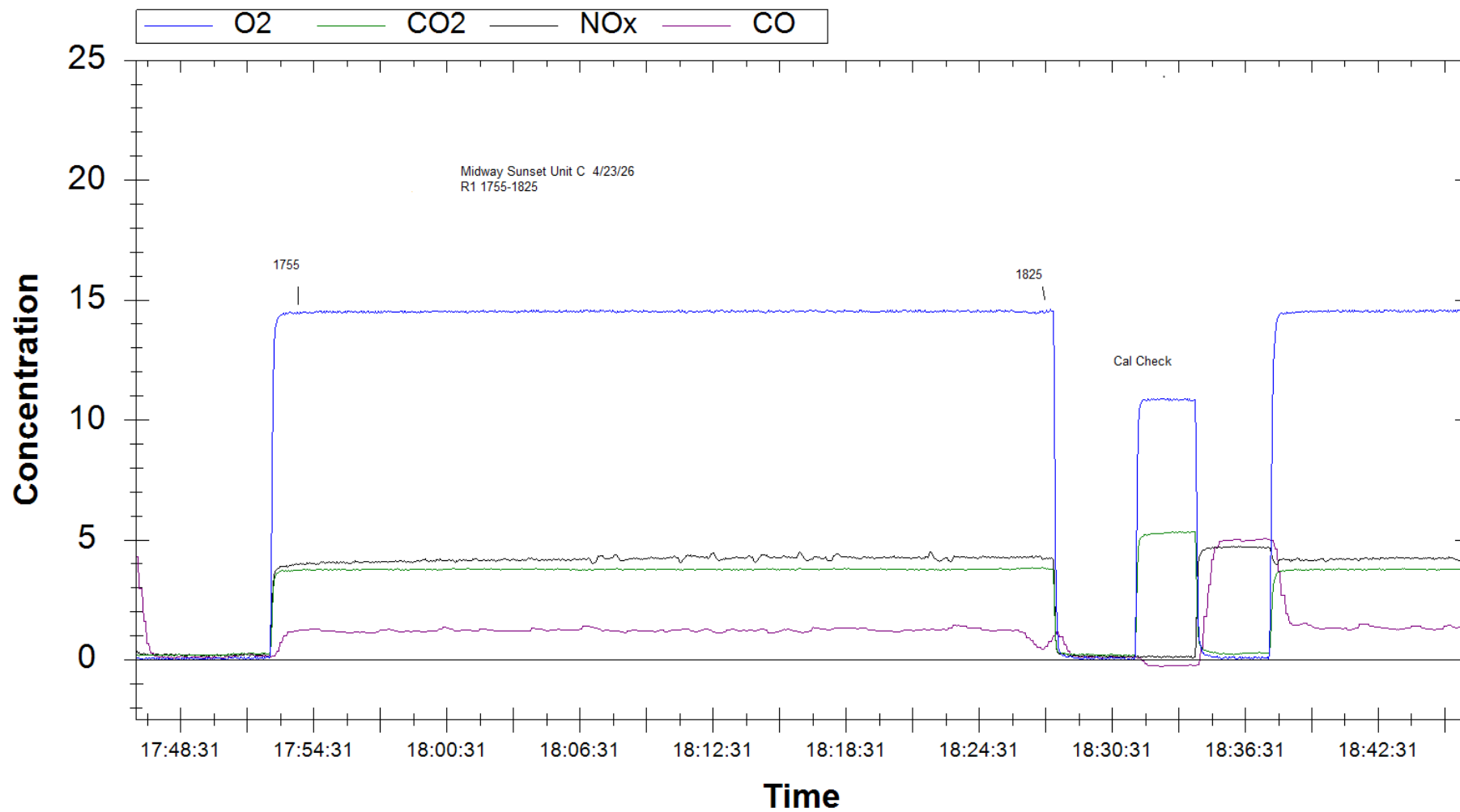
111 of 145

Page 1 of 1

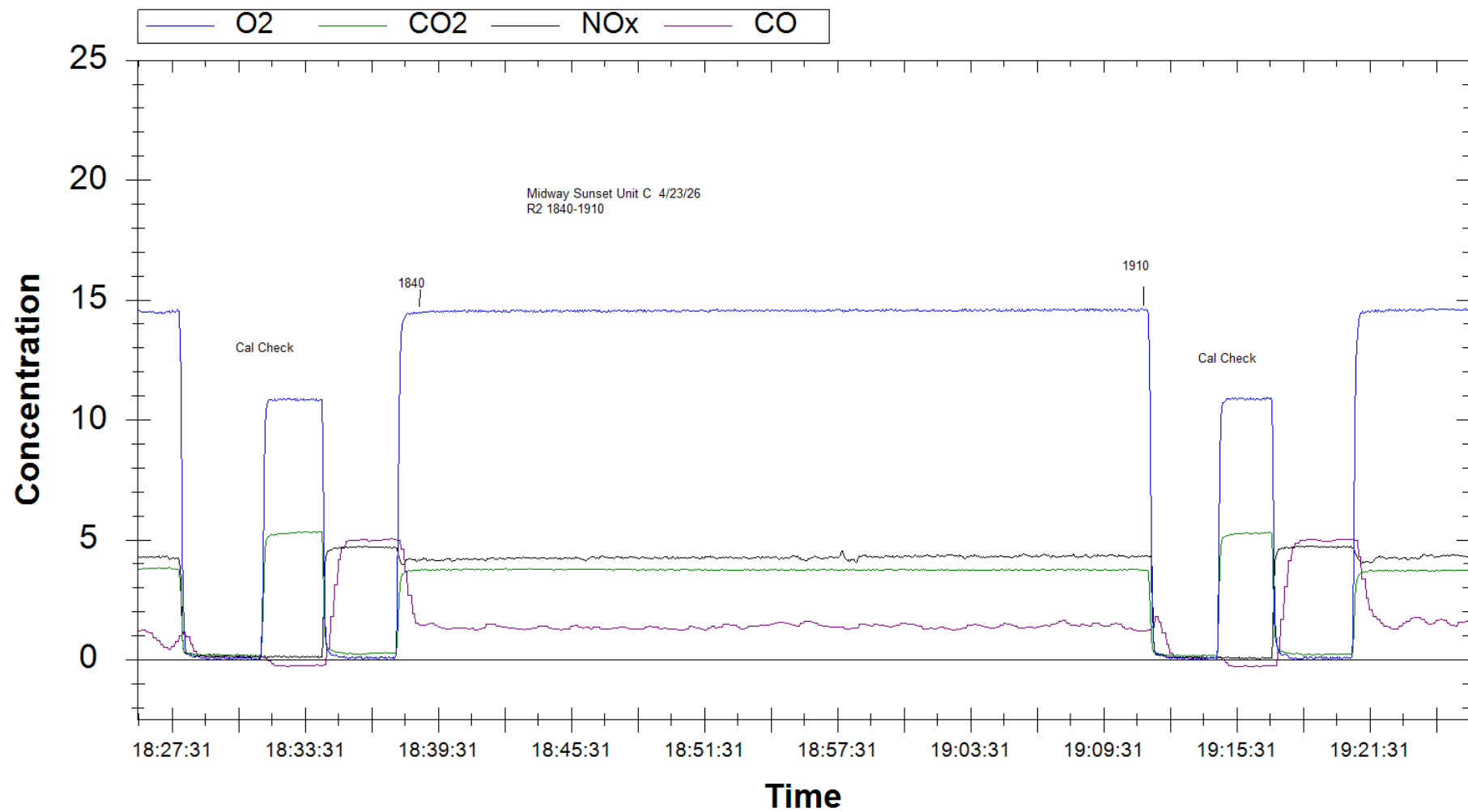
Appendix D.3

Strip Charts

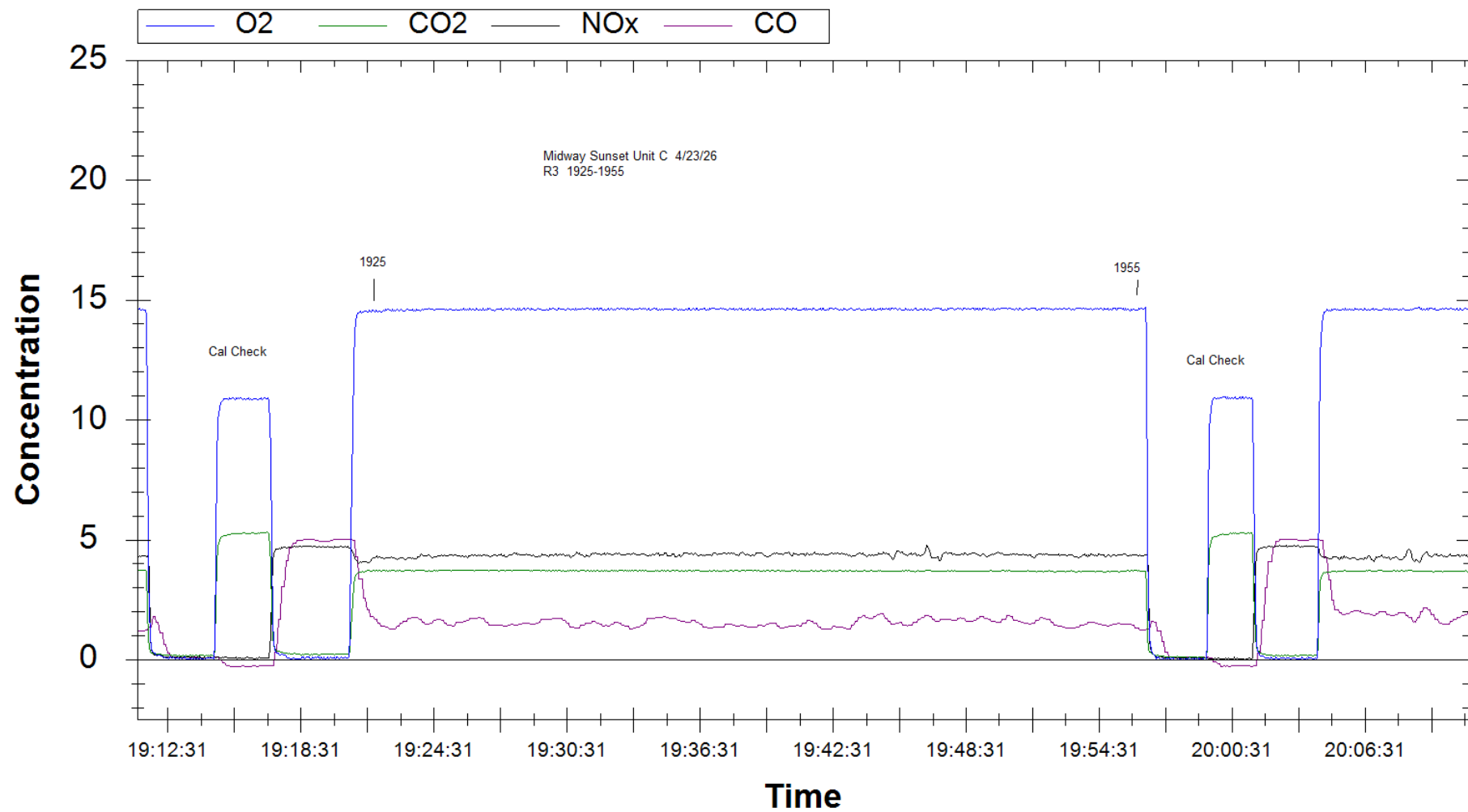
MoleDAQ Graph



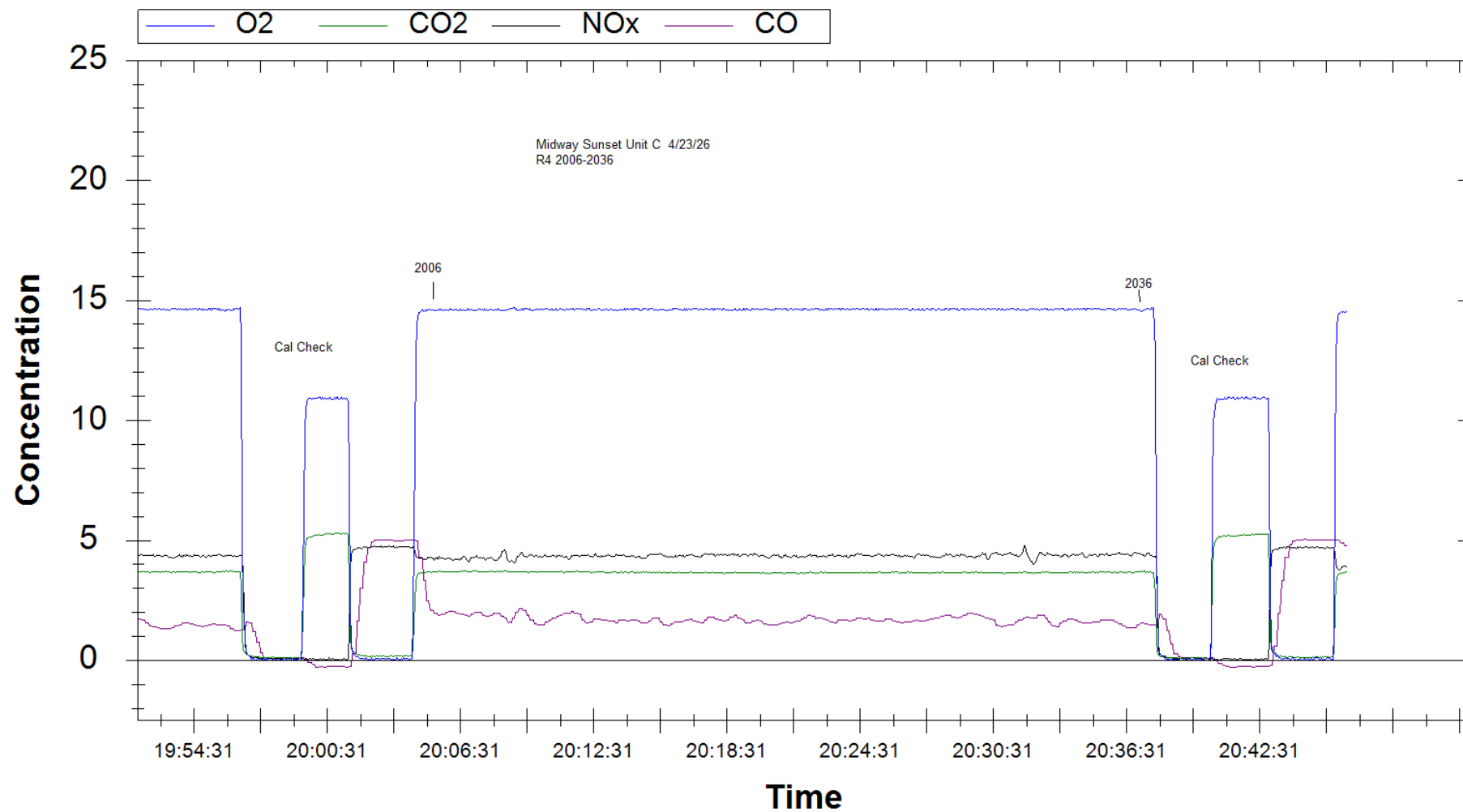
MoleDAQ Graph



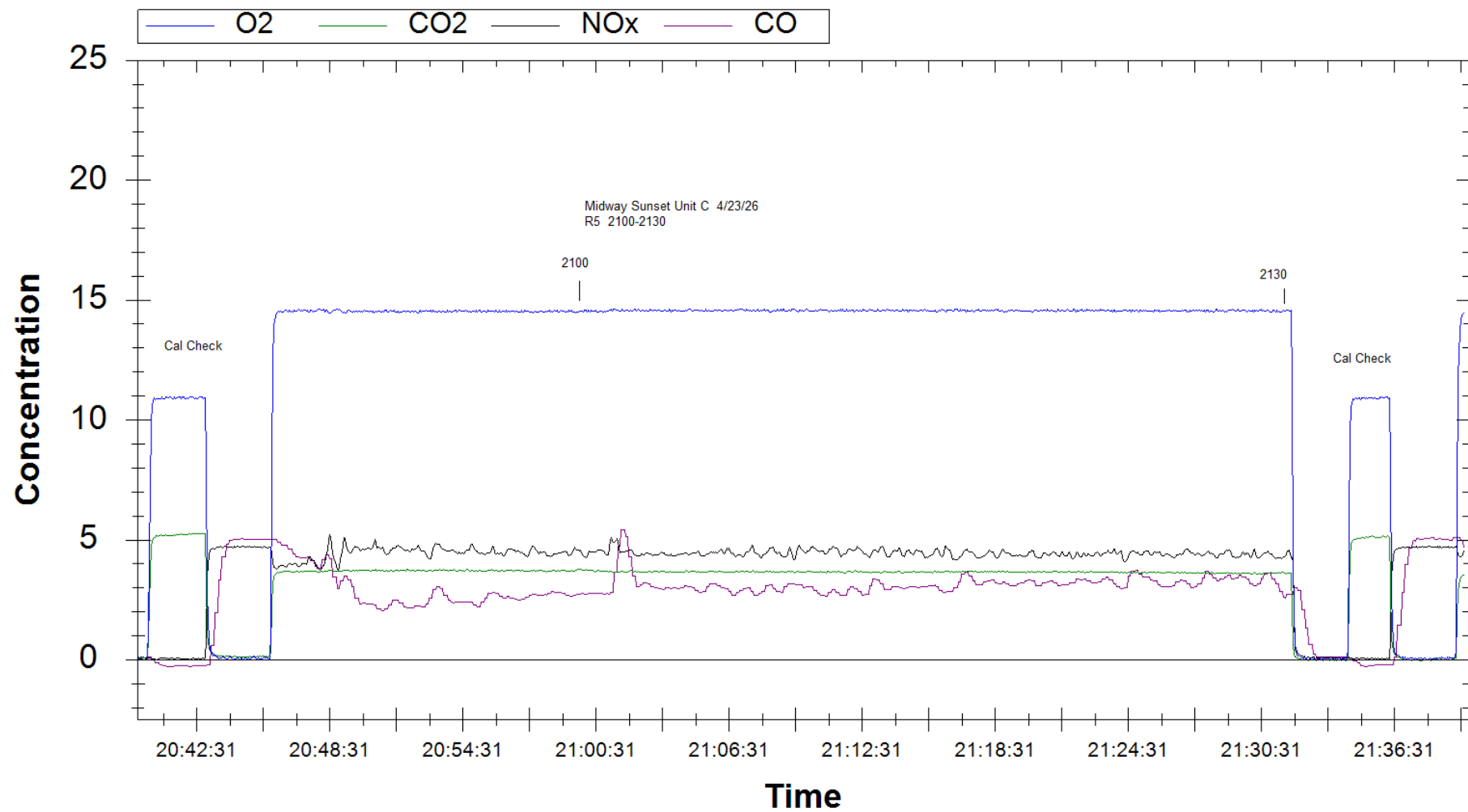
MoleDAQ Graph



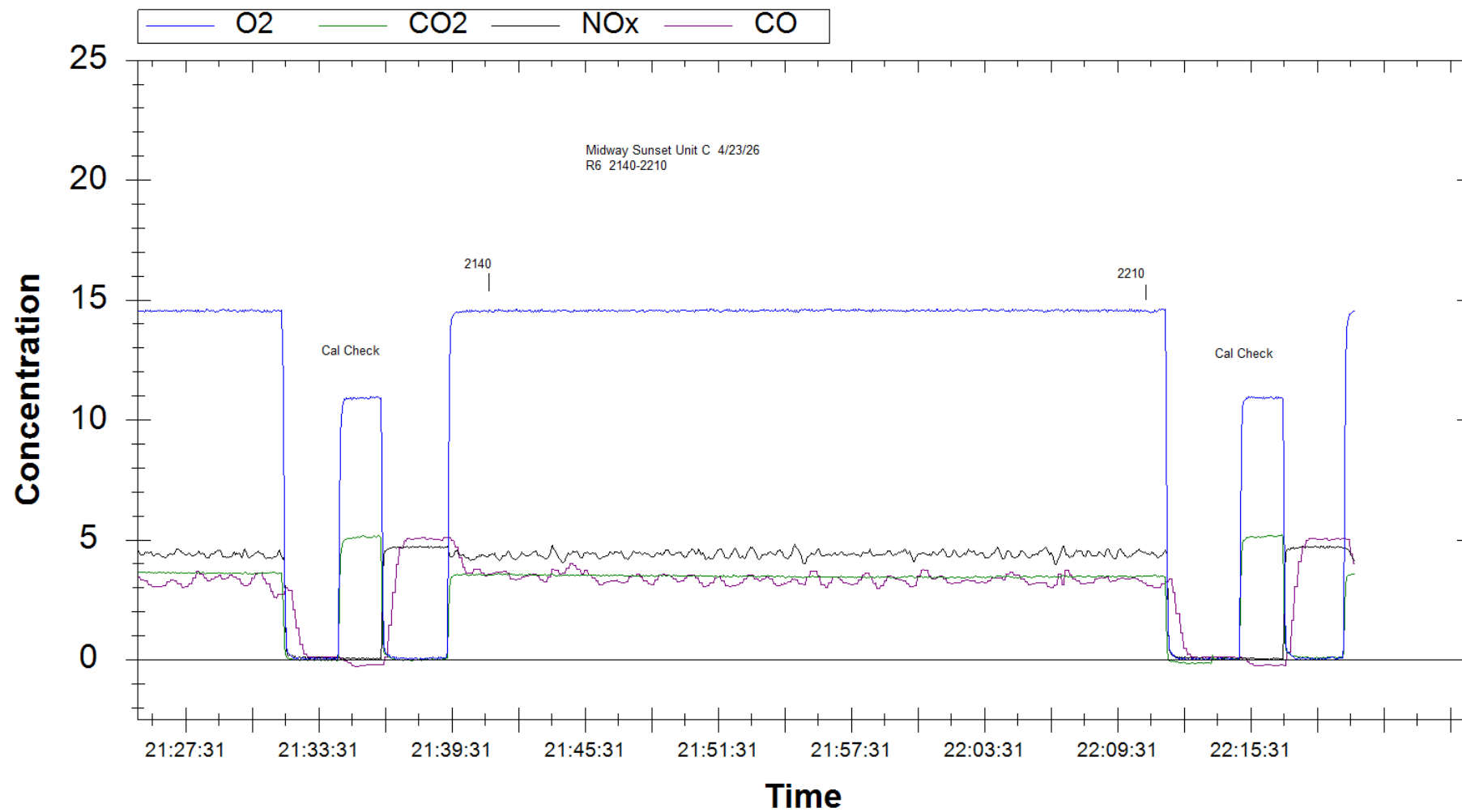
MoleDAQ Graph



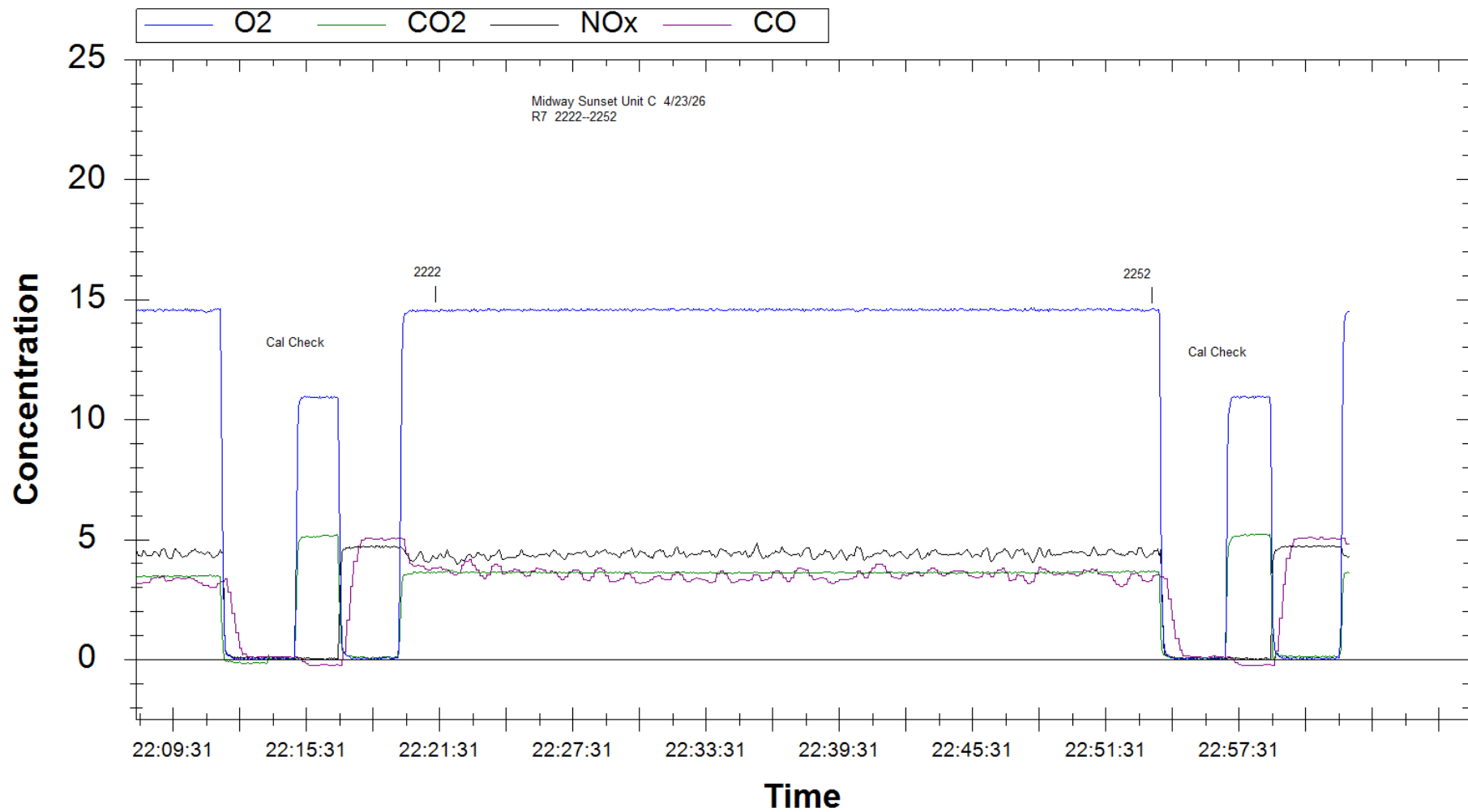
MoleDAQ Graph



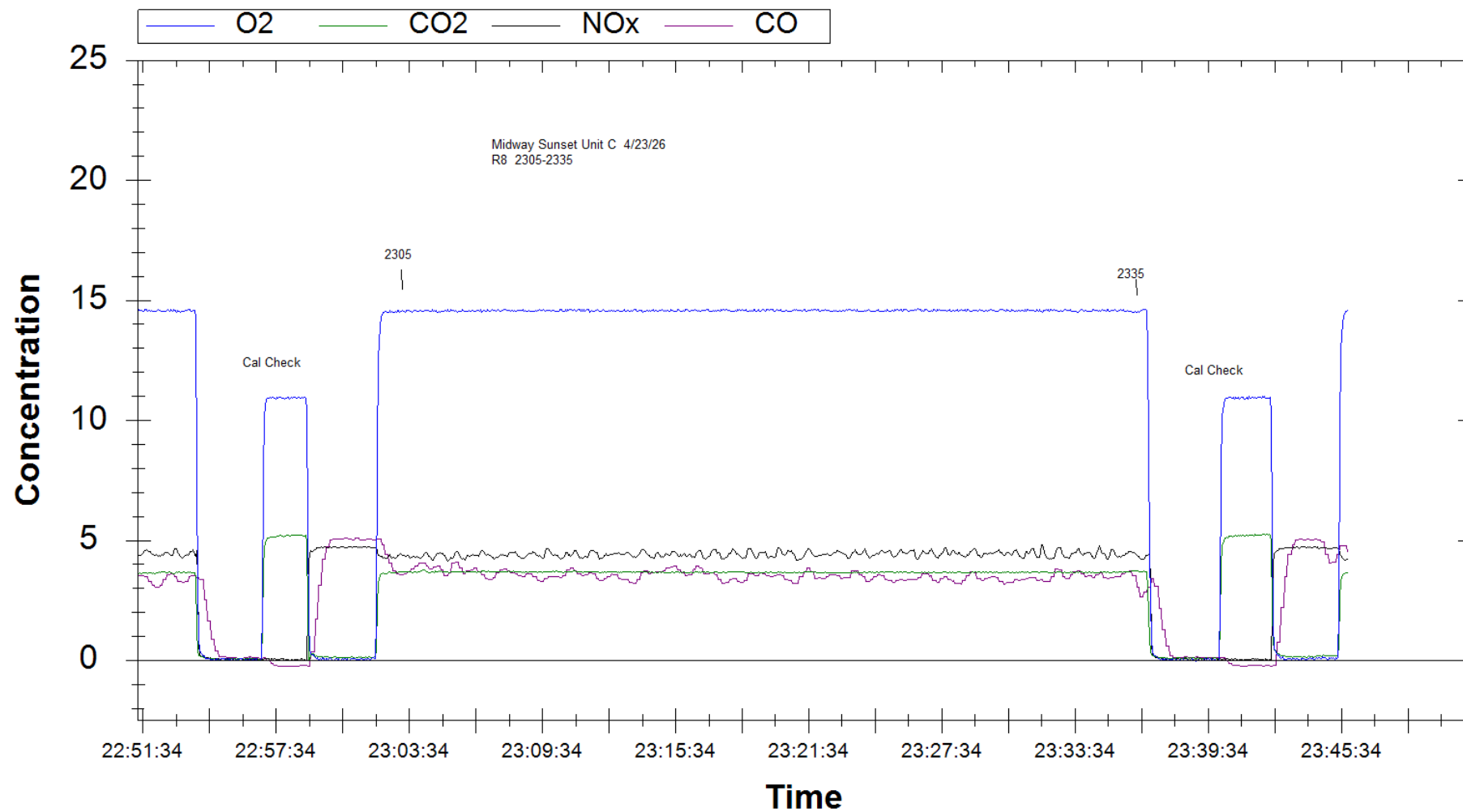
MoleDAQ Graph



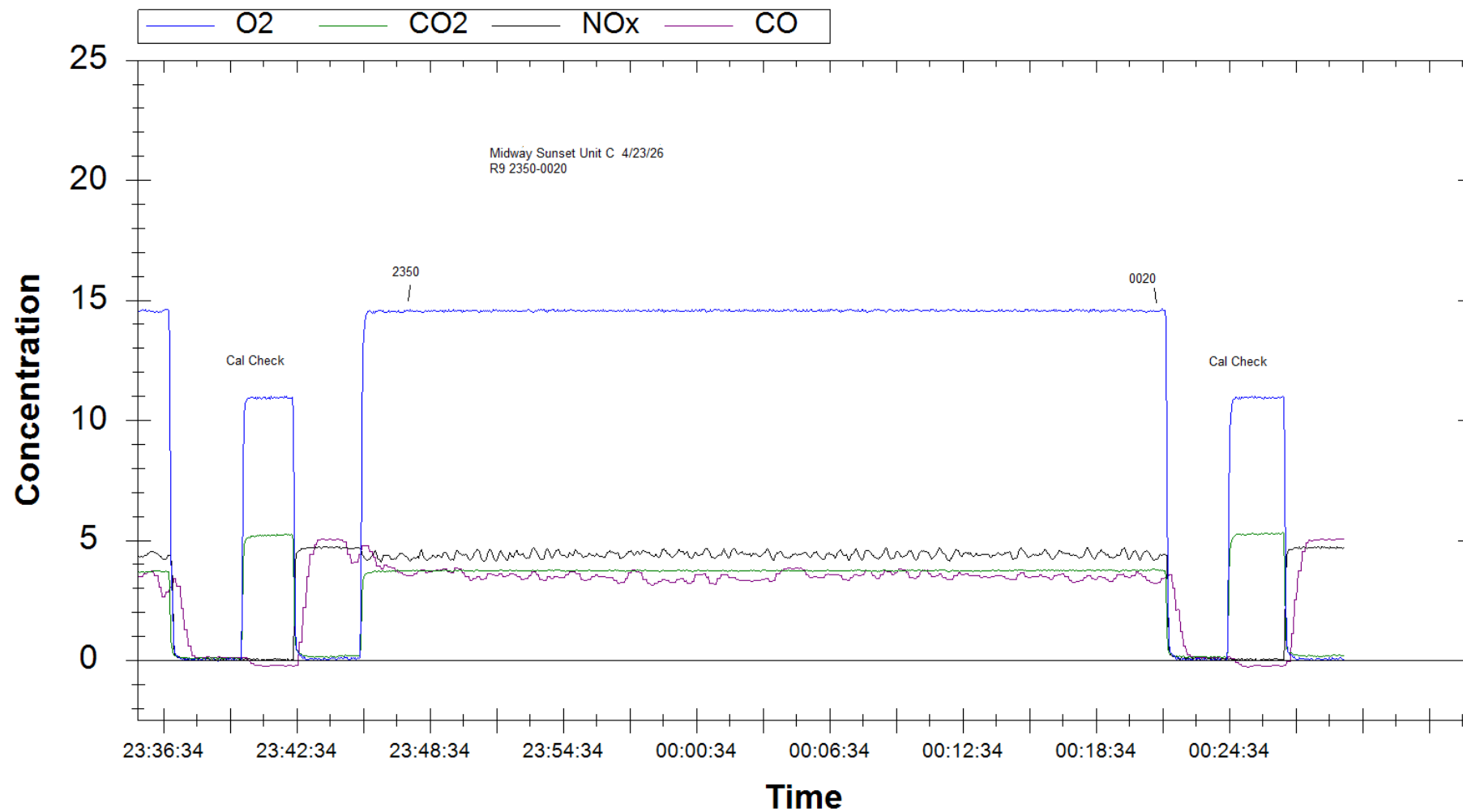
MoleDAQ Graph



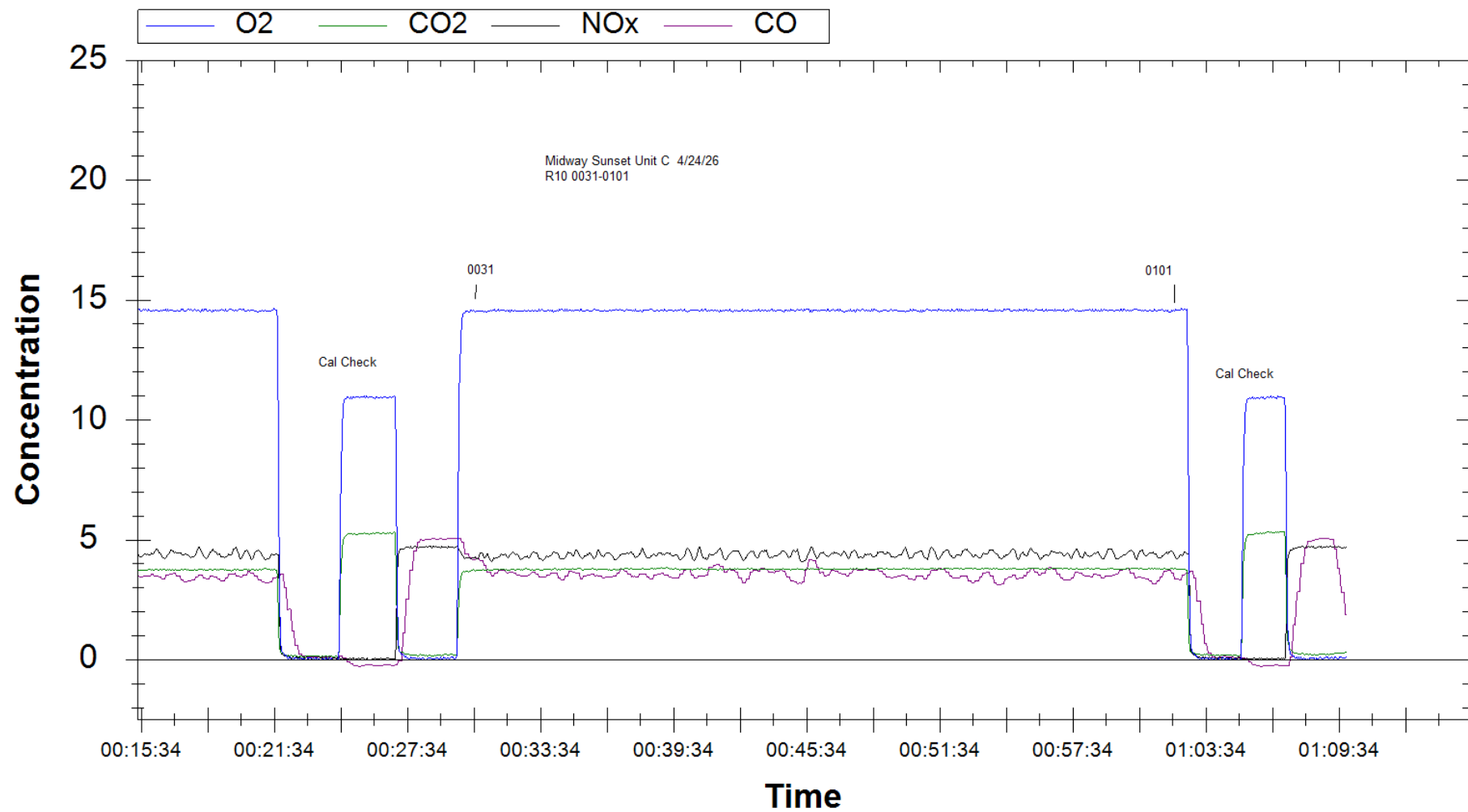
MoleDAQ Graph



MoleDAQ Graph



MoleDAQ Graph



Appendix D.4

Accreditation Information/Certifications

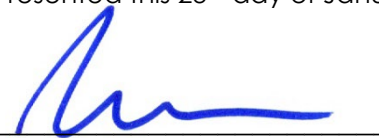
Accredited Air Emission Testing Body

A2LA has accredited

MONTROSE AIR QUALITY SERVICES

In recognition of the successful completion of the joint A2LA and Source Evaluation Society (SES) evaluation process, this laboratory is accredited to perform testing activities in compliance with ASTM D7036:2004 - Standard Practice for Competence of Air Emission Testing Bodies.

Presented this 23rd day of January 2026.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 29, 2028

This accreditation program is not included under the A2LA ILAC Mutual Recognition Arrangement.

CERTIFICATE OF COMPLETION

James Polhamus

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

Source Evaluation Society Group 1: EPA Manual Gas Volume and Flow Measurements and Isokinetic Particulate Sampling Methods

Certificate Number: 002B-2025-9



Tate Strickler, VP – Quality Systems

EFFECTIVE DATE:

11/3/2025

EXPIRATION DATE:

5/6/2029



MONTROSE
ENVIRONMENTAL

CERTIFICATE OF COMPLETION

James Polhamus

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

Source Evaluation Society Group 3: EPA Gaseous Pollutants Instrumental Sampling Methods

Certificate Number: 002B-2024-1



Tate Strickler, VP – Quality Systems

EFFECTIVE DATE: 5/8/2024

EXPIRATION DATE: 5/7/2029



MONTROSE
ENVIRONMENTAL

CERTIFICATE OF COMPLETION

James Polhamus

This document certifies that this individual has passed a comprehensive examination and is now a Qualified Individual (QI) as defined in Section 8.3 of ASTM D7036-04 for the following method(s):

EPA Method 18

Certificate Number: 002B-2024-7



Tate Strickler, VP – Quality Systems

EFFECTIVE DATE:

7/23/2024

EXPIRATION DATE:

7/22/2029



MONTROSE
ENVIRONMENTAL

Appendix D.5

Quality Assurance Program Summary and Equipment Calibration Schedule

QUALITY ASSURANCE PROGRAM SUMMARY

As part of Montrose Air Quality Services, LLC (MAQS) ASTM D7036-04 certification, MAQS is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. MAQS quality assurance program and procedures are designed to ensure that the data meet or exceed the requirements of each test method for each of these items. The quality assurance program consists of the following items:

- Assignment of an Internal QA Officer
- Development and use of an internal QA Manual
- Personnel training
- Equipment maintenance and calibration
- Knowledge of current test methods
- Chain-of-custody
- QA reviews of test programs

Assignment of an Internal QA Officer: MAQS has assigned an internal QA Officer who is responsible for administering all aspects of the QA program.

Internal Quality Assurance Manual: MAQS has prepared a QA Manual according to the requirements of ASTM D7036-04 and guidelines issued by EPA. The manual documents and formalizes all of MAQS QA efforts. The manual is revised upon periodic review and as MAQS adds capabilities. The QA manual provides details on the items provided in this summary.

Personnel Testing and Training: Personnel testing and training is essential to the production of high quality test results. MAQS training programs include:

- A requirement for all technical personnel to read and understand the test methods performed
- A requirement for all technical personnel to read and understand the MAQS QA manual
- In-house testing and training
- Quality Assurance meetings
- Third party testing where available
- Maintenance of training records.

Equipment Maintenance and Calibration: All laboratory and field equipment used as a part of MAQS emission measurement programs is maintained according to manufacturer's recommendations. A summary of the major equipment maintenance schedules is summarized in Table 1. In addition to routine maintenance, calibrations are performed on all sampling equipment according to the procedures outlined in the applicable test method. The calibration intervals and techniques for major equipment components is summarized in Table 2. The calibration technique may vary to meet regulatory agency requirements.

Knowledge of Current Test Methods: MAQS maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations.

Chain-of-Custody: MAQS maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to MAQS source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to MAQS office. Electronic field data is duplicated for backup on secure storage media. The original data sheets are used for report preparation and any additions are initialed and dated.

QA Reviews: Periodic field, laboratory, and report reviews are performed by the in-house QA coordinator. Periodically, test plans are reviewed to ensure proper test methods are selected and reports are reviewed to ensure that the methods were followed and any deviations from the methods are justified and documented.

ASTM D7036-04 Required Information

Uncertainty Statement

Montrose is qualified to conduct this test program and has established a quality management system that led to accreditation with ASTM Standard D7036-04 (Standard Practice for Competence of Air Emission Testing Bodies). Montrose participates in annual functional assessments for conformance with D7036-04 which are conducted by the American Association for Laboratory Accreditation (A2LA). All testing performed by Montrose is supervised on site by at least one Qualified Individual (QI) as defined in D7036-04 Section 8.3.2. Data quality objectives for estimating measurement uncertainty within the documented limits in the test methods are met by using approved test protocols for each project as defined in D7036-04 Sections 7.2.1 and 12.10. Additional quality assurance information is presented in the report appendices.

Performance Data

Performance data are available for review.

Qualified Personnel

A qualified individual (QI), defined by performance on a third party or internal test on the test methods, will be present on each test event.

Plant Entry and Safety Requirements

Plant Entry

All test personnel are required to check in with the guard at the entrance gate or other designated area. Specific details are provided by the facility and project manager.

Safety Requirements

All personnel shall have the following personal protective equipment (PPE) and wear them where designated:

- Hard Hat
- Safety Glasses
- Steel Toe Boots
- Hearing Protection
- Gloves
- High Temperature Gloves (if required)

The following safety measures will be followed:

- Good housekeeping
- SDS for all on-site hazardous materials
- Confine selves to necessary areas (stack platform, mobile laboratory, CEMS data acquisition system, control room, administrative areas)
- Knowledge of evacuation procedures

Each facility will provide plant specific safety training.

TABLE 1
EQUIPMENT MAINTENANCE SCHEDULE

Equipment	Acceptance Limits	Frequency of Service	Methods of Service
Pumps	1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow	As recommended by manufacturer	1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	1. Free mechanical movement	As recommended by manufacturer	1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	1. Absence of malfunction 2. Proper response to zero span gas	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	1. Absence of leaks	Depends on nature of use	1. Steam clean 2. Leak check
Mobil Van Sampling System	1. Absence of leaks	Depends on nature of use	1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling lines	1. Sample degradation less than 2%	After each test series	1. Blow dry, inert gas through line until dry

TABLE 2
MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and After Each Test Day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and After Each Test Run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After Each Test Run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of Each Day	leak check	< 1 in. Hg decrease in 5 min. at 20 in. Hg
Continuous Analyzers	Semi-Annually	3-point linearity	< 1% of analyzer range
NO _x Analyzer	Daily	NO ₂ - NO converter efficiency	90%
Differential Pressure Gauges (except for manometers)	Semi-Annually	Correction factor based on 5-point comparison to standard	+/- 5%
Differential Pressure Gauges (except for manometers)	Bi-Monthly	3-point comparison to standard, no correction factor	+/- 5%
Barometer	Semi-Annually	Adjusted to mercury-in-glass or National Weather Service Station	+/- 0.1 inches Hg
Dry Gas Meter	Semi-Annually	Calibration check at 4 flow rates using a NIST traceable standard	+/- 2%
Dry Gas Meter	Bi-Monthly	Calibration check at 2 flow rates using a NIST traceable standard	+/- 2% of semi-annual factor
Dry Gas Meter Orifice	Annually	4-point calibration for $\Delta H@$	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	+/- 1.5%

Note: Calibration requirements will be used that meet applicable regulatory agency requirements.

Appendix E

Regulatory Information

Appendix E.1

Regulatory Permit to Operate

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1135-226-28

EXPIRATION DATE: 05/31/2026

SECTION: 17 **TOWNSHIP:** 31S **RANGE:** 22E

EQUIPMENT DESCRIPTION:

78.2 MW COGENERATION UNIT C WITH GE MODEL G7111E FRAME 7E GAS TURBINE ENGINE WITH DRY LOW NOX COMBUSTORS (DLN1+ TURNDOWN ENHANCE), SELECTIVE CATALYTIC REDUCTION (SCR), AND UNFIRED HEAT RECOVERY STEAM GENERATOR (HRSG)

PERMIT UNIT REQUIREMENTS

1. CTG exhaust after the SCR unit shall be equipped with continuously recording emissions monitors dedicated to this unit for NOx, CO, and O2. Continuous emissions monitors shall meet the requirements of 40 CFR Part 60, Appendices B and F, and 40 CFR Part 75, and shall be capable of monitoring emissions during startups and shutdowns as well as normal operating conditions. If relative accuracy of CEM(s) cannot be demonstrated during startup conditions, CEM results during startup and shutdown events shall be replaced with startup emission rates obtained from source testing to determine compliance with emission limits. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
2. CTG shall be equipped with a continuously recording emission monitor preceding the SCR module measuring NOx concentration for the purposes of calculating ammonia slip. Permittee shall check, record, and quantify the calibration drift (CD) at two concentration values at least once daily (approximately 24 hours). The calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD exceeds 5% for five consecutive daily periods, the analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, analyzer shall be deemed out-of-control. If the analyzer is out-of-control, the permittee shall take appropriate corrective action and then repeat the CD check. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
3. Ammonia injection grid shall be equipped with operational ammonia flowmeter and injection pressure indicator. [District Rule 2201] Federally Enforceable Through Title V Permit
4. Heat recovery steam generator design shall provide space for additional selective catalytic reduction catalyst and oxidation catalyst if required to meet NOx and CO emission limits. [District Rule 2201] Federally Enforceable Through Title V Permit
5. When SCR is operated, permittee shall monitor and record exhaust gas temperature at selective catalytic reduction and oxidation catalyst inlets. [District Rule 2201] Federally Enforceable Through Title V Permit
6. When SCR is operate, ammonia shall be injected whenever the selective catalytic reduction system catalyst temperature exceeds the minimum ammonia injection temperature recommended by the manufacturer. [District Rule 2201] Federally Enforceable Through Title V Permit
7. Gas turbine engine shall be equipped with fuel consumption monitor recorder accurate to +/- 3%. [District Rule 2201] Federally Enforceable Through Title V Permit
8. CEM for NOx (as NO2) and CO shall conform to Rule 1080 specifications. [District Rules 1080 and 4703] Federally Enforceable Through Title V Permit
9. HRSG exhaust stack shall be equipped with permanent stack sampling provisions adequate to facilitate testing consistent with EPA test methods. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

10. Flue gas ducting from engine to HRSG shall have no provisions for introduction of dilution air. [District Rule 1110] Federally Enforceable Through Title V Permit
11. Lube oil cooler/accumulation vent shall be equipped with control device(s) approved by the APCO sufficient to prevent emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Lube oil cooler/accumulator vent(s) shall not have detectable emissions. [District Rule 2201] Federally Enforceable Through Title V Permit
13. Natural gas sulfur content shall not exceed 0.31 gr/100 scf. [District Rule 2201] Federally Enforceable Through Title V Permit
14. All CEM's shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60 Appendix B. [District Rule 1080] Federally Enforceable Through Title V Permit
15. Quarterly CEM reports shall be submitted to the APCO according to EPA regulations as specified in 40 CFR 60 Appendix B. [District Rule 4001 and District rule 1080, 8.0] Federally Enforceable Through Title V Permit
16. Audits of all monitors shall be conducted by independent laboratory in accordance with EPA guidelines and witnessed by District. Reports shall be submitted to District within 60 days of audits. [District Rule 1080] Federally Enforceable Through Title V Permit
17. All notification, recordkeeping, performance tests, reporting requirements, and compliance testing requirements of Rule 4001 NSPS shall be satisfied. [District Rule 4001] Federally Enforceable Through Title V Permit
18. Operational records including fuel type, fuel characteristics, and consumption shall be maintained and shall be made readily available for District inspection upon request. [District Rule 1070] Federally Enforceable Through Title V Permit
19. Accurate records of NO_x (as NO₂) and CO flue gas concentration corrected to 15% O₂ and fuel gas sulfur content shall be maintained and shall be reported as described in Rule 1080 upon request. [District Rule 1080] Federally Enforceable Through Title V Permit
20. Emission rates shall not exceed the following: PM₁₀: 0.010 lb/MMBtu, SO_x (as SO₂): 0.001 lb/MMBtu, NO_x (as NO₂): 0.018 lb/MMBtu, VOC: 0.009 lb/MMBtu, CO: 0.057 lb/MMBtu, and ammonia - 10 ppmvd @ 15%O₂. [District NSR Rule; District Rule 4201; and Kern County Rule 404] Federally Enforceable Through Title V Permit
21. Permittee shall comply with the following emission limit at all times except during periods of start-up, shutdown, or reduced load as defined in Rule 4703: NO_x (as NO₂): 5.0 ppmv, and CO: 25 ppmv, dry @ 15% O₂ corrected to ISO conditions. [40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703] Federally Enforceable Through Title V Permit
22. Gas turbine engine start-up is that period of time not exceeding two hours in duration during which the unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
23. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
24. Gas turbine reduced load period is that period not exceeding one hour in duration during which the unit is operated at less than rated capacity in order to change the position of the exhaust gas diverter gate. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
25. Compliance with NO_x, CO and ammonia emission limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory annually. [District Rules 4703 and 1081] Federally Enforceable Through Title V Permit
26. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

27. The following test methods shall be used PM10: EPA method 5 (front half and back half), NOx: EPA Method 7E or 20, CO: EPA method 10 (or 10B) or CARB Method 100, O2: EPA Method 3, 3A, or 20, VOC: EPA method 18 or 25, ammonia: BAAQMD ST-1B, and fuel gas sulfur content: ASTM D3246. Alternative test methods as approved by the District may also be used to address the source testing requirements of this permit. [District Rule 1081, 40 CFR 60.335 (b), and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
28. Compliance with ammonia slip limit shall be demonstrated by using the following calculation procedure: ammonia slip ppmv @ 15% O2 = $((a-(b \times c/1,000,000)) \times 1,000,000 / b) \times d$, where a = ammonia injection rate(lb/hr)/17(lb/lb. mol), b = dry exhaust gas flow rate (lb/hr)/(29(lb/lb. mol), c = change in measured NOx concentration ppmv at 15% O2 across catalyst, and d = correction factor. The correction factor shall be derived annually during compliance testing by comparing the measured and calculated ammonia slip. [District Rule 4102] Federally Enforceable Through Title V Permit
29. Official test results and field data shall be submitted within 60 days after collection. [District Rule 4703 and District Rule 1081] Federally Enforceable Through Title V Permit
30. Combined annual emissions from units S-1135-115, S-1135-119, S-1135-122, S1135-123, S-1135-224, S-1135-225, S-1135-226 shall not exceed any of the following: PM10 - 262,360 lb/yr, SOx (as SO2) - 24,200 lb/yr, NOx (as NO2) - 464,170 lb/yr, VOC - 236,520 lb/yr, or CO - 1,443,101 lb/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
31. The permittee shall maintain records of fuel type, quantity, heating value of gas burned, permitted emission factors and annual emissions for each unit. For units equipped with continuous emissions monitors (CEMs), CEM data may be used in place of calculated emissions. If CEM shows a violation, CEM data shall be used. Records shall be updated at least monthly. Reports of annual emissions and fuel usage shall be submitted within 30 days after the end of the calendar year. [District Rule 2201] Federally Enforceable Through Title V Permit
32. If fuel use monitoring provisions fail, emissions shall be calculated based on operational data, or if not available, on set equal to the average of four days prior to failure. [District NSR Rule] Federally Enforceable Through Title V Permit
33. When three gas turbine engines S-1135-224, '-225, and '-226 are operating, four steam generators S-1135-115, '-119, '-122, and '-123 shall be shut down. [District NSR Rule] Federally Enforceable Through Title V Permit
34. When up to two gas turbine engines S-1135-224, '-225, or '-226 are operating, four steam generators S-1135-115, '-119, '-122, and '-123 may be operated. [District NSR Rule] Federally Enforceable Through Title V Permit
35. The permittee shall maintain records of operational status of units S-1135-115, S-1135-119, S-1135-122, S1135-123, S-1135-224, S-1135-225, and S-1135-226 on a daily basis. [District Rule 2201] Federally Enforceable Through Title V Permit
36. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070 and 4703] Federally Enforceable Through Title V Permit
37. CEC emission rates, except during periods of startup, shutdown, or reduced load shall not exceed PM10: 9.98 lb/hr, SOx (as SO2): 0.92 lb/hr, NOx (as NO2): 17.66 lb/hr, VOC: 9.00 lb/hr, and CO: 54.91 lb/hr. [District Rules 2080 and 4703, and 40 CFR 60] Federally Enforceable Through Title V Permit
38. For CEC purposes, emissions during periods of startup and shutdown shall not exceed the following values average over 2 hours: NOx: 140 lb/hr, and CO: 94 lb/hr. [District Rule 2080] Federally Enforceable Through Title V Permit
39. The CEC shall be notified of any changes to the combined annual emission limits for cogeneration units S-1135-224, -225, and -226, only to the extent to be informed of their impact on the Midway-Sunset Cogeneration Facility. [District Rule 2080] Federally Enforceable Through Title V Permit
40. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the EPA. [Kern County Rule 108 and District Rule 1080] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

41. Records shall be maintained and shall contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance of any CEM's that have been installed pursuant to District Rule 1080, and emission measurements. [Kern County Rule 108; District Rules 1080 and 4703; 40 CFR 60.7 (b)] Federally Enforceable Through Title V Permit
42. The permittee shall maintain hourly average records of NOx and CO emissions. Compliance with the hourly, daily, and twelve month rolling average VOC emission limits shall be demonstrated by the CO CEM data and the VOC/CO relationship determined by annual CO and VOC source tests of NOx, CO, and ammonia emission concentrations (ppmv @ 15% O2), and hourly, daily, and twelve month rolling. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
43. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Kern County Rule 108 and District Rule 1080, 9.0] Federally Enforceable Through Title V Permit
44. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [Kern County Rule 108 and District Rule 1080, 10.0] Federally Enforceable Through Title V Permit
45. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx and CO. [District Rule 1081] Federally Enforceable Through Title V Permit
46. Unit shall be fired on a natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333 (a) & (b); 40 CFR 60.334 (c)(2); Kern County Rule 407; and District Rule 4801] Federally Enforceable Through Title V Permit
47. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
48. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using method(s) specified on this permit. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
49. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246, or double GC for H2S and mercaptans. [40 CFR 60.335 (d)] Federally Enforceable Through Title V Permit
50. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be semi-annually. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [40 CFR 60.334 (b)(2)] Federally Enforceable Through Title V Permit
51. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR 60.334(a)(2)] Federally Enforceable Through Title V Permit
52. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, OR ASTM 1945. [40 CFR 60.332 (a),(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
53. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% O2 (dry). [40 CFR 60.332 (a),(b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
54. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. [40 CFR 60.334 (a),(b),(c) and District Rule 4703, 5.0] Federally Enforceable Through Title V Permit
55. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332 (a),(b) and District Rule 4703, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

56. This unit is a simple combustion turbine as defined in 40 CFR 72.6 (b)(1) and shall not be subject to the requirements of 40 CFR Part 72. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
57. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Kern County Rules 404, 108, and 108.1. A permit shield is granted from these requirements. [SJVUAPCD Rule 2520, 13.2] Federally Enforceable Through Title V Permit
58. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: Kern County Rule 407; District Rules 4801, 4201, 1081, and 1080, Sections 6.5, 7.2, 8.0, 9.0, and 10.0; 40 CFR 60.332 (c) and (d); 60.334 (b), (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
59. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: District Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
60. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: District Rules 1080, 7.3 and 4703, 6.2.2; 40 CFR 60.332(a), (b); 60.333(a) and (b), 60.334(a), (b), and (c)(1); 60.335(a), (b) and (c)(2). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
61. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
62. The Permittee (MSCC) must notify EPA by telephone, facsimile, or electronic mail transmission within two (2) working days following the discovery of any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner, which results in an increase in emissions above any allowable emission limit stated in any conditions where PSD is cited as the basis of the condition. In addition, the Permittee (MSCC) must notify EPA in writing within fifteen (15) days of any such failure. The notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial malfunction, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed in any conditions where PSD is cited as the basis of the condition, and the methods utilized to mitigate emissions and restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violation of this permit or of any law or regulation that such malfunction may cause, except as provided for in the conditions where PSD is cited as the basis of the condition. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
63. A malfunction means a sudden and unavoidable breakdown of equipment or of a process beyond the reasonable control of the source. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
64. Emissions in excess of the limits specified in any conditions where PSD is cited as the basis of the condition shall constitute a violation of this permit and may be the subject of enforcement proceedings. [PSD SJ-87-01] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

65. Affirmative defense: In the context of an enforcement proceeding, emissions which are below the limits set forth in any condition where PSD is cited as the basis of the condition shall not be subject to penalty if the Permittee (MSCC) retains properly signed, contemporaneous operating logs or other relevant evidence and can demonstrate all of the following: i.) A malfunction caused the emissions in excess of the limits in any condition where PSD is cited as the basis of the condition; ii.) The permitted facility, including the air pollution control equipment and process equipment, was being properly operated at the time of the malfunction; iii.) Preventative maintenance was regularly performed in a manner consistent with good practice for minimizing emissions; iv.) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance; v.) During the period of the malfunction, the permittee (MSCC) took all reasonable steps to minimize the amount and duration of emissions (including any bypass) that exceeded the emission limits provided in any condition where PSD is cited as the basis of the condition. Reasonable steps to minimize emissions could include, but are not limited to, reducing production to the lowest level practicable, reducing the material feed that results in the increased emissions, and switching to alternative, less polluting fuels. Where repairs were required, repairs were made in an expeditious fashion when the operator knew or should have known that applicable emission limitations were being exceeded. Off-shift labor and overtime must have been utilized, to the extent practicable, to ensure that such repairs were made as expeditiously as possible; and vi.) The permittee (MSCC) complied with the malfunction reporting requirements as specified in the condition where PSD is cited as the basis of the condition. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
66. All emissions, including those associated with a malfunction which may be eligible for an affirmative defense, must be included in all emissions calculations and demonstrations of compliance with mass emission limits (e.g., daily, monthly, and annual emission limits) specified in this permit. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
67. This provision is in addition to any emergency or malfunction provision contained in any applicable requirement or elsewhere in this permit. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
68. The EPA Regional Administrator, and/or their authorized representative, upon the presentation of credential, must be permitted: (1) to enter the premises where the source is located or where any records are required to be kept under the terms and conditions of the PSD permit SJ-87-01; and (2) at reasonable times to have access to and copy any records required to be kept under the terms and conditions of PSD permit SJ 87-01; and (3) to inspect any equipment, operation, or method required in the PSD permit SJ-87-01; and (4) to sample emissions from source(s). [PSD SJ-87-01] Federally Enforceable Through Title V Permit
69. In the event of any changes in control or ownership of facilities to be constructed or modified, this permit shall be binding on all subsequent owners and operators. The Permittee (MSCC) shall notify the succeeding owner and operator of the existence of the PSD permit SJ-87-01 and its conditions by letter, a copy of which shall be forwarded to the EPA. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
70. The provisions of the PSD permit SJ-87-01 are severable, and , if any provisions of the permit is held invalid, the remainder of the permit must not be affected thereby. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
71. The permittee (MSCC) must construct and operate the proposed power plant in compliance with all other applicable provisions of 40 CFR Parts 52, 60, 62, and 63 and all other applicable Federal, State, and local air quality regulations. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
72. On or before the date of startup (as defined in 40 C.F.R. 60.2) of the Western Midway Sunset Cogeneration Project (WMSCP; PSD Permit No. SJ-00-01) and thereafter the Permittee (MSCC) must install, continuously operate, and maintain the Dry Low NOx (DLN) combustion systems to reduce NOx emissions from each of its three turbines. The Permittee (MSCC) shall also use proper combustion techniques for the control of CO emissions from the equipment at MSCP. [PSD SJ-87-01] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

73. Within 60 days after achieving the base load, but no later than 180 days after initial startup of all three modified turbines (as defined in 40 C.F.R. 60.2), and annually thereafter (at about the anniversary of the initial performance test), the Permittee (MSCC) must conduct performance tests (as described in 40 C.F.R. 60.8) for NO_x, and CO on the exhaust stack gases. The Permittee (MSCC) must furnish the District, the California Air Resources Board (CARB), and the EPA a written report of the results of such tests. Upon written request from the Permittee (MSCC), and adequate justification, EPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 87-01] Federally Enforceable Through Title V Permit
74. Performance tests for the emissions of NO_x, and CO must be conducted and the results reported in accordance with the test methods set forth in 40 C.F.R. 60.8 and 40 C.F.R. 60, Appendix A. The following test methods must be used: a.) Performance tests for the emissions of NO_x must be conducted using EPA Method 1-4 and 7E. b.) Performance tests for the emissions of CO must be conducted using the EPA Methods 1-4 and 10. In lieu of the above-mentioned test methods, equivalent methods may be used with prior written approval from EPA. The Permittee (MSCC) must notify EPA in writing at least 30 days prior to such tests to allow time for the development of an approvable performance test plan and to arrange for an observer to be present at the test. [PSD SJ 87-01] Federally Enforceable Through Title V Permit
75. For performance test purposes, sampling ports, platforms, and access must be provided by the Permittee on the emission unit exhaust system in accordance with 40 C.F.R. 60.8(e). [PSD SJ 87-01] Federally Enforceable Through Title V Permit
76. On and after the date of startup of the WMSCP (PSD Permit No. SJ-00-01), the Permittee (MSCC) must not discharge or cause the discharge of CO into the atmosphere in excess of the following emission limits per turbine: The more stringent of 25 ppmvd @ 15% O₂ or 55 pounds per hour, based on 3-hour rolling average. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
77. This condition applies prior to the startup of the WMSCP: On and after the date of start up any of the three turbines at MSCP must not discharge (per turbine, and based on 3-hour rolling average) into the atmosphere CO in excess of the following of any of: 1.) The more stringent of 52.0 ppmvd @ 15% O₂ or 94 pounds for loads greater than or equal to 75%. 2.) The more stringent of 62.0 ppmvd @ 15% O₂ or 94 pounds for loads greater than or equal to 35% but less than 75%. 3.) 94 pounds per hour for loads less than 35%. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
78. On and after the date of startup of the WMSCP (PSD Permit No. SJ-00-01), the Permittee (MSCC) must not discharge or cause the discharge of NO_x into the atmosphere in excess of the following emission limits per turbine: The more stringent of 10 ppmvd @ 15% O₂ or 36.1 pounds per hour, based on 3-hour rolling average. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
79. This condition applies prior to the startup of the WMSCP: On and after the date of start-up of any of the three turbines, MSCC must not discharge (per turbine, based on 3-hour rolling average) into the atmosphere NO_x (as NO₂) in excess of the following: 1.) The more stringent of 25.0 ppmvd @ 15% O₂ or 85.0 pounds per hour for loads greater than or equal to 75%; 2.) The more stringent of 42.0 ppmvd @ 15% O₂ or 85 pounds per hour for loads greater than or equal to 35% but less than 75%; 3.) 85 pounds per hour for loads less than 35%. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
80. The hourly (3-hour averaging) emissions must not exceed: 1.) 94 pounds of CO and 85 pounds of NO_x; 2.) All CEMs must be operating during startups and shut downs; 3.) The time, date and duration of each startup and shutdown event must be recorded. The records must include the lbs/hour calculations based on the CEM data. These records must be kept for five years following the date of such events. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
81. Prior to the date of startup and thereafter, the Permittee (MSCC) must install, maintain and operate the following continuous monitoring systems (CEMs) in the exhaust stacks: a.) Continuous monitoring systems to measure stack gas NO_x, CO and O₂ concentrations. The systems must meet EPA monitoring performance specification (40 C.F.R. 60.13 and 40 C.F.R. 60, Appendix B, Performance Specifications 2, 3 and 4); b.) A continuous monitoring system to measure stack gas and natural gas volumetric flow rates. The stack gas flow measurement system must meet EPA Performance Specifications for (40 C.F.R. Part 52, Appendix E). [PSD SJ-87-01] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

82. The Permittee (MSCC) must maintain a file of all measurements, including continuous monitoring systems evaluations; all continuous monitoring systems or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; performance and all other information required by 40 C.F.R. 60 Appendices A-B recorded in a permanent form suitable for inspection. The file must be retained for five years following the date of such measurements, maintenance, reports and records. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
83. The Permittee (MSCC) must notify EPA of the date on which demonstration for the continuous monitoring system performance commences (40 C.F.R. 60.13). This date must be no later than 60 days after full load operation but not later than 180 days after startup. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
84. The Permittee (MSCC) must submit a written report of all excess emissions to EPA for every calendar quarter. The quarterly report must include the following: a.) The magnitude of the excess emissions computed in accordance with 40 C.F.R. 60.13(h), any conversion factors used, and the date and time of commencement and compilation of each time period of excess emissions; b.) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of any equipment. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted must also be reported; c.) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments; d.) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information must be stated in the report; and e.) Excess emissions must be defined as any 3-hour period during which the average emissions of CO, as measured by the CEM exceeds the maximum emission limits set forth in the condition with a CO emission limit, where PSD is cited as the basis of the condition or any 3-hour period during which the average emissions of NOx exceed the maximum emission limits set forth in the condition with a NOx emission limit, where PSD is cited as the basis of the condition. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
85. Excess emissions indicated by the CEM system must be considered violations of the applicable emission limit for the purpose of this permit. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
86. The quality assurance project plan used by the Permittee (MSCC) for the certification and operation of the continuous emissions monitors, which meets the requirements of 40 C.F.R. Part 60, Appendix F, must be available upon request to EPA. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
87. The Permittee (MSCC) must keep a monthly record of all fuel uses. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
88. The proposed power plant is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 C.F.R. 60). The owner or operator must meet all applicable requirements of 40 C.F.R. 60 Subparts A and GG of this regulation. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
89. All three turbines will fire natural gas only. The Permittee (MSCC) must only combust pipeline quality natural gas with sulfur content (as S) below 0.75 grains per 100 dry standard cubic feet (dscf). [PSD SJ-87-01] Federally Enforceable Through Title V Permit
90. MSCC shall have legal and operational responsibility and control of all air pollutant emitting activities of the MSCP. This responsibility shall include, but shall not be limited to the following: 1.) Operating and maintaining the project to comply with all federal, state, and local air pollution laws, regulations, orders, and other requirements; 2.) Ensuring the emissions offsets, tradeoffs, or other emission reductions required for this project under permits issued by the U.S. EPA, the District, and/or the California Energy Commission are obtained as required; or 3.) Any violations of any air pollution requirements are the legal responsibility of MSCC, in addition to any other legal responsible entity. Any proposed change to this condition shall require prior written concurrence of the US EPA. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
91. The allowable incidental taking (killing, harming, or harassment) of San Joaquin kit foxes, blunt-nosed leopard lizards, and giant kangaroo rats is confined to the proposed cogeneration plant site one half mile radius around this site (on lands owned or leased by Aera Energy LLC), and associated subject cogeneration plant facilities (including pipelines, transmission lines, temporary equipment stockpiling areas, and access roads) as discussed in the project Application for Certification report (Sun Cogeneration Company and Southern Sierra Energy Company 1985). [PSD SJ-87-01] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

92. MSCC is required to implement the "Agreement on Conditions for Mitigation of the Biological Impacts of the Midway-Sunset Project" as required by the U.S. Fish and Wildlife Service (USFWS) (Memorandum dated March 16, 1987 from the USFWS to the US EPA). [PSD SJ-87-01] Federally Enforceable Through Title V Permit
93. Any endangered species found dead should be turned in to the California Department of Fish and Game for Analysis. MSCC must also report this event to the USFWS. The USFWS may recommend amendment to the existing project actions pending results of the analysis. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
94. All correspondence as required by this permit shall be forwarded to: 1.) Director, Air Division (Attn: Air-3) EPA Region IX 75 Hawthorne Street San Francisco, CA 94105-3901 Tel: (415) 744-1291 Fax: (415) 744-1076; 2.) Chief, Stationary Source Division, California Air Resource Board P.O. Box 2815 Sacramento, CA 95812; and 3.) Air Pollution Control Officer, San Joaquin Valley Unified APCD 34946 Flyover Court Bakersfield, CA 93308. [PSD SJ-87-01] Federally Enforceable Through Title V Permit
95. MSCC is the legal owner of the gas turbine cogeneration facility. MSCC is jointly owned by Sun Cogeneration Limited Partnership (Sun Cogen LP) and San Joaquin Energy Company. Sun Cogen LP is managed and controlled by a wholly owned subsidiary of Aera Energy LLC. (See Condition 104) [PSD SJ-87-01] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: AERA ENERGY LLC

Location: HEAVY OIL WESTERN STATIONARY SOURCE, MIDWAY-SUNSET, KERN COUNTY, CA

S-1135-226-28 : Feb 27 2025 10:24AM -- LAPREC

14-F-145

This is the Last Page of This Document

If you have any questions, please contact one of the following individuals by email or phone.

Name: Jim Polhamus

Title: Client Project Manager

Region: West

Email: jpolhamus@montrose-env.com

Phone: 661-333-6245

Name: John Peterson

Title: District Manager

Region: West

Email: JPeterson@montrose-env.com

Phone: 714-279-6777