

DOCKETED

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Annual Compliance Report

**City of Anaheim
Canyon Power Plant**

Anaheim, California

SCAQMD

Facility ID: 153992

CEC Permit Number:

800-2010-001-CMF

Docket Number:

07-AFC-9C

2025

Period Range

January 1, 2025, through December 31, 2025

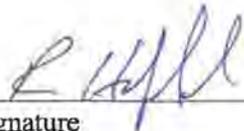
Review and Certification

I have reviewed both technically and editorially all details, calculations, results conclusions and other appropriate written material contained herein and hereby certify that to the best of my knowledge the material presented is true, accurate and complete.

I certify that the information contained in this report is true, accurate, and complete.

Ronald Hoffard
Name

Generation Plant Manager
Title


Signature

2/12/2026
Date

Canyon Power Plant
Annual Compliance Report
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Acronyms and Abbreviations

BHP	Break horse power
Btu	British thermal unit
BACT	Best available control technology
CARB	California Air Resources Board
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
COA	City of Anaheim
CFR	Code of Federal Regulations
CPP	Canyon Power Plant
CT	Combustion turbine
DAHS	Data acquisition and handling
TDS	Total dissolved solids
DPF	Diesel particulate filter
EPA	Environmental Protection Agency
F.	Fahrenheit
ICE	Internal combustion engine
lbs/hr	pounds per hour
lb/lb-mol	pound per pound mol
MW	mega watts
MMBtu	million British thermal units
mmcf	million cubic feet
NH ₃	ammonia
NO	Nitrogen Oxide
NO _x	Oxides of Nitrogen
NO ₂	Nitrogen Dioxide
O ₂	Oxygen
ppm	parts per million
ppmc	parts per million corrected to 15% O ₂
RATA	relative accuracy test audit
ROG	Reactive Organic Compounds
RTU	remote terminal unit
scf	standard cubic feet (standard temperature = 68 degrees F)
SCR	selective catalytic reactor
SCAQMD	South Coast Air Quality Management District
unit	The term unit refers to the boiler/steam turbine
VOC	Volatile Organic Compounds

1.0 Facility Description:

The City of Anaheim's (COA) Canyon Power Plant (CPP) facility is located at 3071 Miraloma Avenue in Anaheim California.

The facility consists of four natural gas fired General Electric, Model LM6000PC Sprint, simple cycle combustion turbine with water injection. The gas turbine was designed with a maximum heat input of 479 MMBtu per hour with a 46-degree Fahrenheit (F.) inlet air temperature. The units are equipped with an inlet air chiller designed to maintain the gas turbine inlet temperature at 46 degrees F. at full load.

Each unit is capable of generating 50.95 megawatts.

Carbon Monoxide (CO) emissions from the gas turbine are controlled by utilizing a CO oxidation catalyst located between the gas turbine and the selective catalytic reactor (SCR). The CO oxidation catalyst controls the unit's CO and volatile organic compounds (VOC) emissions. The catalyst is guaranteed to reduce the unit's CO emission rate to a maximum of 4 ppm corrected to 15% O₂ (ppmc) and the VOC to 2 ppmc, both emission rates are based on a one (1) hour averages, dry basis at 15% O₂. The CO catalyst system was designed and supplied by Englehard/BASF.

The NO_x emissions from the gas turbine are controlled by utilizing two (2) independent systems or techniques in series. The first system utilized in this unit is the water injection system.

Water is injected into the combustor suppressing the flame temperature and reducing the 1-hour average NO_x concentration to approximately 25 ppmc at 15% oxygen prior to entry into the SCR.

The second NO_x control system utilized by the unit is the NH₃/SCR system. After passing through the CO catalyst, the exhaust gases pass through an ammonia injection grid on its way to the SCR. The ammonia (NH₃) used at this facility is in the form of 19% by weight solution of ammonium hydroxide.

The SCR catalyst utilized by the unit for NO_x control was provided by Cormetech. The reaction between the NH₃ and the SCR catalyst reduces the existing NO_x to elemental nitrogen and water, resulting in NO_x concentrations in the exhaust gas at no greater than 2.5 ppmv at 15% O₂ on a 1-hour average. The ammonia slip must be maintained below 5 ppm at 15% O₂. Each SCR is vented through a dedicated stack, which is 11.8 ft. diameter and 86 ft. high.

The facility is also equipped with an 1141 BHP diesel emergency internal combustion engine (ICE) (black start engine) will be used to start up the plant in the event of a loss of grid power.

The ICE is a Caterpillar, Model C-27, rated at 1141 BHP and fired on ultra low sulfur diesel fuel. The ICE will serve to provide power to the plant during blackout conditions. The engine is certified by the SCAQMD as an EPA Tier 2 engine on 12/31/2010. The engine is required to be permitted, rather than registered, because CPP is a RECLAIM/Title V facility.

The black start engine will be used only in emergency situations where grid power from the COA's 69 kV system is unavailable to start the CTs. The black start engine will provide power to the turbine starter motors and various other necessary pieces of support equipment to get one of the gas turbines started. Once one of the turbines has started and provide power to the grid,

the black start engine will be shut down.

The SCAQMD rules limit operation of an emergency ICE to 50 hours per year.

The black start engine incorporates a diesel particulate filter (DPF), which is required by LAER. The Caterpillar DPF is designed to control the particulate emissions from diesel engines. The DPF consists of 2 filters, each 15-inches diameter by 15-inches long. The DPF system has been verified by CARB under Executive Order DE-14-006-01 to reduce emissions of diesel particulate matter consistent with a Level 3 device (greater than or equal to 85 percent reduction), when used with ultra low sulfur diesel with 15 ppm or lower sulfur content. As the DPF is CARB verified, a source test is not required. With the DPF, the particulate matter emissions from the engine is reduced from 0.15 g/bhp-hr to 0.0225 g/bhp-hr.

The DPF consists of a catalyzed cordierite ceramic honeycomb with hundreds of parallel channels, which is designed to reduce particulate emissions, carbon monoxide and hydrocarbons. The catalyst on the ceramic walls oxidizes carbon monoxide into carbon dioxide, and hydrocarbons into water and carbon dioxide. The arrangement of the channels is such that the exhaust gases carrying the carbon particles are forced through the fine pores of the walls, which filter out the particles. As the carbon particles are collected on the ceramic walls, the back pressure on the engine will increase. When the temperature of the exhaust is equal to or greater than 300 °C (572 °F) for at least 30% of the duty cycle, the catalyst interacts with the collected particulates to burn the particulates into carbon dioxide and water vapor, which will pass through the DPF.

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 1
COMPLIANCE MATRIX

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 SCAQMD COMPLIANCE

AQMD Requirement	Limit	Limit	Period	Unit 1 Done	Unit 1 Due	Unit 2 Done	Unit 2 Due	Unit 3 Done	Unit 3 Due	Unit 4 Done	Unit 4 Due	Canyon Site Done	Canyon Site Due	
CEMS Calibration Stack and Turbine	each 24 hours	Daily prior to fires lit	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily			
NOx pounds			Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily			
NOx pounds monthly Electronic		RECLAIM RTC Holdings per AQMD records 60 days after the end of each quarter	15 days at the end of the month									1/6/26	2/15/26	
NOx pounds quarterly Electronic			30 days at the end of the Quarter										1/6/26	4/30/26
QCER			30 days at the end of the first 3 calendar Quarters										2/10/25	3/1/26
NOx pounds Annual Permit Emissions Program report (APEP)			60 days after the end of the calendar year										2/10/25	3/1/26
RATA - RECLAIM/Acid Rain		Relative accuracy test of CEMS equipment	Every Six months or annually if incentive is met	5/23/24	6/30/25	9/9/25	9/30/26	11/4/25	12/31/26	11/5/25	12/31/26			
RATA - CO Spiking 218			Annually	5/23/24	6/30/25	9/9/25	9/30/26	11/4/25	12/31/26	11/5/25	12/31/26			
Ammonia slip		5 PPM	Every quarter 1st year then annually	5/23/24	6/30/25	9/9/25	9/30/26	11/4/25	12/31/26	11/5/25	12/31/26			
Triennial Source Test (SOx, VOC, PM)		1.67 lb/hr; 2.0 ppm; .06 lb/MMbtu per unit	Every 3 years	7/21-22/20	9/30/23	7/26-27/23	9/30/26	10/24-25/23	12/31/26	10/26-27/2023	12/31/26			
Particulate PM (per Permit met the 3-year cycle on 2017)		1.67 lb/hr	Every 18 months in a 3 year period	2/8/16	not required	2/9/16	not required	11/4/15	not required	5/31/22	not required			
Fuel Flow Meter	pass or fail	2% accuracy	Annually	2/24/25	2/24/26	2/24/25	2/24/26	2/24/25	2/24/26	2/25/25	2/25/26			
Fuel Temp & Press (PT-6227)	pass or fail	2% accuracy	Annually	12/17/25	12/17/26	12/6/25	12/6/26	12/12/25	12/12/26	12/9/25	12/9/26			
Fuel Temp & Press (TE-6332A/B)	pass or fail	2% accuracy	Annually	12/20/25	12/20/26	12/20/25	12/20/26	12/20/25	12/20/26	12/20/25	12/20/26			
SCR Inlet temperature probe calibration (TE-403A-D)			Annually	1/17/25	1/17/26	1/17/25	1/17/26	1/17/25	1/17/26	1/17/25	1/17/26			
SCR differential pressure calibration (DPIT 403)	pass or fail	2% accuracy	Annually	1/7/25	1/7/26	1/7/25	1/7/26	1/7/25	1/7/26	1/7/25	1/7/26			
Ammonia flow meter (X-Mitter)	pass or fail	2% accuracy	Annually	1/7/25	1/7/26	1/7/25	1/7/26	1/7/25	1/7/26	1/7/25	1/7/26			
CEMS enclosure Temperature element calibration	pass or fail	2% accuracy	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily	Daily			
Regenerate Diesel Particulate Filter		Every 24 Cold starts or Back Pressure (Yellow light) greater than 36 INCH/H2O										11/7/23	24 starts	
Diesel NOx pounds quarterly electronic		RECLAIM RTC Holdings	15 days after the end of the quarter									1/6/26	4/30/26	
Power Washer NOx Pounds Qtrly Electronic												1/6/26	4/30/26	
Metal Coating Log - Rule 1107 (VOC)		Log coatings used on site	Annually									12/29/25	12/31/26	
Natural Gas Sample analysis	Manufactures specifications	0.25 grains H2S/100 scf	Monthly									12/9/25	1/30/26	
218 report (non-RECLAIM elements)		PPM & Emission Rates	Semi-annual									1/27/26	7/30/26	
Title V Permit Renewal		Compliance Report	Every 5 years; Apply 180 days prior to expiration;									8/20/21	8/18/26	
Title V 500 SAM Report		Compliance Report	Semi-annual									7/24/25	2/28/26	
Title V 500 ACC Report		Compliance Report	Annually									2/11/25	3/1/26	
Annual Emissions Report (AER)		Compliance Report	75 days at the end of calendar year									4/29/25	5/1/26	
RECLAIM equipment breakdown	Upon Discovery	Upon Discovery	Verbal report to AQMD within 1 hour of discovery											
Non-RECLAIM equipment breakdown	Upon Discovery	Upon Discovery	Verbal report to AQMD within 24 hours of discovery											
Stack NOx Limit	2.5 parts per million	2.5 PPM	60 minute average											
Ammonia Slip Limit	5 parts per million	5 PPM	60 minute average											
Start-up NOx Limit	14.27 pounds	14.27 lbs per 60 min	60 minute average											
Shut-down NOx Limit	4.07 pounds	4.07 lbs per 60 min	10 minutes average											
**Maintenance Operations NOx Limit	44.0 pounds	44.0 lbs in any hour	60 minute average											
CO Limit	4.0 parts per million	4 PPM	60 minute average											
Start-up CO Limit	11.6 pounds	11.6 lbs per 60 min	60 minute average											
Shut-down CO Limit	4.15 pounds	4.15 lbs per 60 min	10 minute average											
**Maintenance Operations CO Limit	19.5 pounds	19.4 lbs in any hour	60 minute average											
ROG Limit	2.0 parts per million	2 PPM	60 minute average											
Start-up ROG Limit	1.29 pounds	1.29 lbs per 60 min	60 minute average											
Shut-down ROG Limit	1.27 pounds	1.27 lbs per 60 min	10 minutes average											
VOC Limit	412 pounds	412 lb/mo per unit	Monthly											
PM-10 Limit	540 pounds	540 lb/mo per unit	Monthly											
SOX Limit	108 pounds	108 lb/mo per unit	Monthly											
VOC Limit	3608 pounds	3608 lbs/yr per unit	Annual											
PM-10 Limit	4822 pounds	4822 lbs/yr per unit	Annual											
SOX Limit	971 pounds	971 lbs/year per unit	Annual											
Start-ups Limit	240 pounds	540 starts per unit	Year											

* Met Incentive

**Maintenance- optimizing and re-balancing fo the NH3 grid or catalyst modules, and the retuning and testing of the turbine control system.

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 SCAQMD 500-N REPORTS

No.	Unit No.	Description	AQMD Permit Limit	Actual Emissions	Duration	Date of Episode	Reported to AQMD	500N sent to AQMD	Inspector Site Visit	Notice of Violation	Responsible	Resolution/Comments
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No Form 500-N Reports were required to be submitted to SCAQMD

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 ENFORCEMENT ACTION NOTICES

No Notices to Comply or Notices of Violation issued in 2025

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 CEC REPORTING

CEC Requirement	Period	Last Done	Next Due	Responsibility	Comments
CEC 1304	varies one to two months after the quarter	1/16/25	4/30/25	Hoffard/Hernandez	
CEC 1304b	Semi-Annual	1/30/25	7/30/25	Sun/Hoffard	
CEC Annual Report	30 days at end of calender year	1/31/25	1/31/26	Hoffard/Hernandez	
CEC Quarterly Operations Report	30 days at end of each quarter	1/28/25	4/30/25	Hoffard/Hernandez	
Building and structure inspection	Semi-annually	12/30/24	6/30/25	Hernandez	
Legionella/TDS - PM10 calculation	Quarterly	12/9/24	3/15/25	Hernandez/ALS	

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 CAISO REPORTING

CAISO Requirement	Period	Canyon Site Done	Canyon Site Due	Canyon Site Done	Canyon Site Due	Responsibility	Comments
		Spring		Fall			
Planned Outage Schedule	Annual Spring & Fall Outages	5/9/25	5/9/26	12/21/25	12/21/26	Vo	
CAISO MOD 027 / 026 / 027	5 Years			12/31/20		Hoffard	Not required

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 CAL ARP

California Accidental Release Prevention Program	Period	Last Done	Next Due	Responsibility
Hazard Review - 19% Aqua Ammonia System	Every 5 years	09/19/24	9/19/29	Hoffard/AFD
Compliance Audit	Every three years	4/18/23	4/30/26	Mario Salguero
Ammonia Sensor Testing	Semi Annual	12/15/25	6/30/26	Hoffard/Salguero
Ammonia Emergency Stop (E-Stop) Test	Annual	12/5/25	12/31/26	Hoffard

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 CAL RMP REPORTING

Cal. Refrigerant Management Program (RMP) Requirements (> 2000 lbs.)	Limit	Period	Last Done	Next Due	Responsible
Annual Report and Fee Payment	Not Applicable	Due Annually (March 1 Each Year)	2/21/25	3/1/26	Hernandez/Hoffard
Leak Detection System Audit and Cals.	Not Applicable	Due Annually	5/8/25	12/30/26	Hernandez/Hoffard

California Air Resources Board

Stationary Equipment Refrigerant Management Program (RMP)

Canyon Power Plant (CPP) Compliance Guidance

Compliance Year: 2025

Facility Size Classification: Large (at least 1 unit w/≥ 2000 lbs high GWP-refrigerant capacity)

Annual Fee: \$370.00 (Fees must be paid annually by the reporting deadline)

No. of Refrigeration Systems: 2 (CH-100, CH-200)

Location(s): Both chillers are located in the Northeast portion of facility footprint, just South of two water storage tanks.

Refrigeration System Specifications

CH-100: Centrifugal Chiller w/5200 lbs R-123 (full charge), Trane, Model No. CDHF3000, Serial No. L10B00350;

> ALDS ID: **301-IRF A:** Vulcain/Honeywell, Model No. 301-EM, Concentration Monitor (Direct System), 2 Infrared Sensors

		Done	
Last System Audit:	Next audit target: 6/30/2025	5/8/25	Deadline: 12/31/2025
Last Calibration:	Next calibration target: 6/30/2025	5/8/25	Deadline: 12/31/2025

CH-200: Centrifugal Chiller w/5200 lbs R-123 (full charge), Trane, Model No. CDHF3000, Serial No. L10A00882;

> ALDS ID: **301-IRF B:** Vulcain/Honeywell, Model No. 301-EM, Concentration Monitor (Direct System), 2 Infrared Sensors

		Done	
Last System Audit:	Next audit target: 6/30/2025	5/8/25	Deadline: 12/31/2025
Last Calibration:	Next calibration target: 6/30/2025	5/8/25	Deadline: 12/31/2025

CARB Reporting (due by 3/1 each year)

Last CARB Report: 2/21/2025 for 2024 **Next reporting deadline:** 3/1/2026 for 2025 (Fee payment due on or before this date)

Automatic Leak Detection System Requirements

● Each system must be audited and calibrated using manufacturer's recommended procedures to ensure that the system:

- 1.) accurately detects a concentration level of 10 parts per million of vapor of the specific refrigerant used in the system; and
- 2.) alerts the operator when a refrigerant concentration of 100 parts per million of vapor of the specific refrigerant is reached.

● **The audit and calibration must be completed on each leak detection system at least once per calendar year.**

- If an automatic leak detection system alerts plant operators, a leak inspection must be conducted within 24 hours after the system alert.
- This leak inspection must be completed using a calibrated refrigerant leak detection device or a bubble test to confirm a refrigerant leak and to determine the leak location(s).
- If during a required leak inspection or at any time oil residue is observed indicating a refrigerant leak, a leak inspection must be conducted using a calibrated refrigerant leak detection device or a bubble test to confirm the leak.
- A leak inspection must be conducted using a calibrated refrigerant leak detection device, a bubble test, or observation of oil residue, each time an additional refrigerant charge equal to or greater than 5 pounds, or one percent of the refrigeration system full charge (whichever is greater), is added to the system.

Leak Repairs and Subsequent Leak Inspection Requirements

● A refrigerant leak must be repaired by an EPA-certified technician holding a current and active C38 - Refrigeration Contractor's license, or by an employee of a contractor with these qualifications.

> A contractor's license is not required if:

- 1.) a City employee services or repairs the system and wages are sole compensation; or
- 2.) the City performs the service or repair through one undertaking, or by one or more contracts, and the aggregate contract price for labor, materials, and all other items is less than \$500; or
- 3.) the service or repair is performed pursuant to a contract entered into before 1/1/2011, by the City.

● **Leaks must be repaired within 14 days of detection, unless a longer time period is allowed (*)**

* 45-day allowance if ANY of the following criteria is met:

- 1.) A certified technician is not available to complete the repair or replace the component(s). This must be documented in writing per recordkeeping requirements;
- 2.) The parts necessary to repair a refrigerant leak are unavailable, and the operator obtains a written statement from the refrigeration system or component manufacturer or distributor stating that the parts are unavailable. This must be documented in writing per recordkeeping requirements; or
- 3.) The refrigerant leak repair requires an industrial process shutdown that results in a process temporarily ceasing to manufacture the intermediate or final product that is produced when the industrial process refrigeration appliance is in operation.

* 120-day allowance if ALL of the following criteria is met:

- 1.) The facility is an entity subject to Mandatory Greenhouse Gas Emissions Reporting requirements;
- 2.) The refrigeration system is an industrial process refrigeration appliance;
- 3.) The refrigerant leak repair requires an industrial process shutdown that results in a process temporarily ceasing to manufacture the intermediate or final product that is produced when the industrial process refrigeration appliance is in operation; and
- 4.) Written records are maintained to document that all of the conditions are met.

● An initial verification test must be performed upon completion of refrigerant leak repairs.

● A follow-up verification test must be conducted on the complete refrigeration system after the initial verification test.

- > If the system was evacuated during the refrigerant leak repair, then this test should be conducted when the system is operating at normal operating characteristics and conditions.
- > If the system was not evacuated during the refrigerant leak repair, then the follow-up verification test requirement is satisfied once the required changes are made to return the refrigeration system to normal operating characteristics and conditions.

● If either the initial or follow-up verification tests indicate that a refrigerant leak is still occurring, the leak must be repaired within 14 days (unless a longer time period is allowed*).

- > A retrofit or retirement plan may also be prepared in lieu of this repair.

● If a follow-up verification test indicates that a refrigerant leak has not been successfully repaired within the 14 days allowed, and no exemption has been received, then:

- > successfully repair the leak within 45 days of the initial leak detection; or
- > prepare a retrofit or retirement plan within 60 days of the initial leak detection.

● If a follow-up verification test indicates that a refrigerant leak has not been successfully repaired within the 45 days allowed (*), and no exemption has been received, then:

- > prepare a retrofit or retirement plan within 60 days of the initial leak detection.

● If a follow-up verification test indicates that a refrigerant leak has not been successfully repaired within the 120 days allowed (*), and no exemption has been received, then:

- > prepare a retrofit or retirement plan within 135 days of the initial leak detection.

Retrofit or Retirement Plan Requirements

● If required to prepare a retirement or retrofit plan, the plan must establish a schedule to retrofit or retire the leaking system no later than six months after the initial leak detection, and all work must be completed during the 6-month period.

● The plan must be kept on-site where the leaking system is located.

● If a refrigeration system is to be retired and replaced, the plan must include information specific to the new refrigeration system to be constructed or installed. (**)

● If a refrigeration system is to be retrofitted, the plan must include information specific to the refrigeration system after the retrofit has been completed. (**)

** A retrofit or retirement plan must include the following information:

- 1.) The system identification number of the refrigeration system being retired or retrofitted;
- 2.) equipment type;
- 3.) equipment manufacturer;
- 4.) equipment model or description;
- 5.) intended physical location of the refrigeration system through schematic or floor plan with locations clearly noted;
- 6.) temperature classification (i.e., low, medium, other);
- 7.) full charge of refrigeration system;
- 8.) type of refrigerant used;
- 9.) if the refrigeration system is to be retired and replaced, a plan to dispose of the retired system;
- 10.) a timetable which includes, at a minimum:
 - > the date installation, construction, or retrofit of the refrigeration system is expected to begin, and
 - > the expected completion date of the installation, construction, or retrofit of the refrigeration system; and
- 11.) A signature by a representative of the facility, including the date.

● If the system is being mothballed, these requirements do not apply until the day that the refrigeration system resumes operation at a facility.

● If an exemption has been received, then the preparation and implementation of a retrofit or retirement plan is not required during the exemption time period. If an exemption request has been submitted, then the plan preparation or implementation is not required until a final exemption determination is made.

Recordkeeping Requirements

● Maintain the following records for a minimum of 5 years:

- 1.) All registration information required by the rule;
- 2.) documentation of all leak detection systems, leak inspections, and automatic leak detection system annual audit and calibrations;
- 3.) records of refrigeration system service and refrigerant leak repairs, and any documentation of conditions allowing repair to be

- conducted more than 14 days after leak detection;
- 4.) retrofit or retirement plans;
- 5.) all CARB reports;
- 6.) any application for exemption, and any notification of an exemption approved, denied, revoked, or modified;
- 7.) invoices for all refrigerant purchases;
- 8.) records of all shipments of refrigerants for reclamation or destruction, to include:
 - > Name and address of the person the refrigerant was shipped to;
 - > Weight in pounds of refrigerant shipped;
 - > type of refrigerant shipped;
 - > date of shipment;
 - > purpose of shipment (i.e., reclamation, destruction, etc.);
- 9.) records of all refrigeration systems component data, measurements, calculations and assumptions used to determine the full charge.

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 CITY REPORTING

Anaheim Requirement	Period	Last Done	Next Due	Responsibility
Certified (Facility) Fire Protection Systems Inspection	Semi-Annual	5/10/25	5/30/26	Hoffard
Electric protection relays	10-years	12/1/21	12/1/31	Hoffard
8-Hour refresher HAZWOPER	Annual	5/30/25	5/30/26	Hoffard/Salguero
Oil Spill Prevention, Control and Countermeasure Plan	5-years	10/12/23	12/21/28	McCaffrey/Hoffard
Hazardous Materials Business Plans (CERS)	Annual	2/10/25	2/10/26	Salguero/Hernandez

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 EIA REPORTING

EIA Requirement	Period	Last Done	Next Due	Responsibility	Comments
EIA 860-A	Annual	2/21/25	3/1/26	Hernandez/Hoffard	
EIA-923-M	Monthly	12/9/25	1/30/26	Hernandez/Hoffard	

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 OSHA REPORTING

OSHA Requirement	Period	Unit 1 Done	Unit 1 Due	Unit 2 Done	Unit 2 Due	Unit 3 Done	Unit 3 Due	Unit 4 Done	Unit 4 Due	Canyon Site Done	Canyon Site Due	Responsible
LM6000 Overhead Crane inspection	Annually	11/27/25	11/30/26	11/27/25	11/30/26	11/27/25	11/30/26	11/27/25	11/30/26			Vo/Hoffard
Warehouse Crane inspection	Annually									11/25/25	12/31/26	Vo/Hoffard
LM6000 Overhead Crane load test	Every 4 years	12/4/24	12/31/28	5/4/23	5/30/27	3/27/25	3/30/29	10/12/20	12/31/26	U4 Crane load scheduled 2026		Vo/Hoffard
Warehouse Crane load test	Every 4 years									12/4/24	12/31/28	Vo/Hoffard
Fuel Gas system safeties - CTG	Tri-Annual									4/7/25	4/1/28	Vo/Hoffard
Fuel Gas system safeties - Gas Yard	Tri-Annual									4/7/25	4/1/28	Vo/Hoffard
Instrument Air system safeties	Every 5 years									10/30/21	10/30/26	Vo/Hoffard
Ammonia tank system safeties	Updated Every 4 years									4/7/25	4/1/29	Vo/Hoffard
Air Pressure tank inspection / permit renewal	Every 5 years									11/1/21	11/1/26	Hoffard/HSB insurance

CANYON POWER PLANT COMPLIANCE MATRIX
CY 2025 EPA REPORTING

EPA Requirement	Period	Unit 1 Done	Unit 1 Due	Unit 2 Done	Unit 2 Due	Unit 3 Done	Unit 3 Due	Unit 4 Done	Unit 4 Due	Responsible
Linearity Test	anytime within the quarter	12/18/25	3/30/25	12/18/25	3/30/25	12/19/25	3/30/25	12/19/25	3/30/25	Hernandez/Hoffard
Electronic Data Report (EDR) EPA	30 days at the end of the Quarter	1/15/26	4/30/26	1/15/26	4/30/26	1/15/26	4/30/26	1/15/26	4/30/26	Hernandez/Hoffard
Greenhouse gas monitoring report	Annually	4/18/25	3/31/26	4/18/25	3/31/26	4/18/25	3/31/26	4/18/25	3/31/26	Hernandez/Hoffard
EPA Form 500 ACC	Annually	2/11/25	3/1/26	2/11/25	3/1/26	2/11/25	3/1/26	2/11/25	3/1/26	Hernandez/Hoffard

Spill Prevention, Control and Countermeasures Plan	Period	Last Done	Next Due	Responsibility	Comments
SPCC Facility Inspection	Monthly	12/6/25	1/30/26	Hernandez	

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 FIRE CODE REPORTING

Fire Code Requirement	Period	Last Done	Next Due	Responsibility
Fire detection system certification	Annual	5/7/25	5/1/26	Vo/Hoffard/Fire Protection Systems
Fire detection system inspection	Semi-annual	12/1/25	5/1/26	Vo/Hoffard/Fire Protection Systems
CO 2 cylinder (weight)	Annual	5/7/25	5/1/26	Vo/Hoffard/Fire Protection Systems

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 OCSD REPORTING

OCSD Requirement	Period	Last Done	Next Due	Responsibility
Permit # 1-600296				
Effluent Meter reading Report	Monthly	1/7/26	2/20/26	Operator/Hoffard/Hernandez
Effluent Sample collection (BOD/TSS)	semi-annual	10/30/25	4/30/26	Sanks/Hernandez/Hoffard
Effluent Meter Certification/Cal	Annual	1/14/26	1/30/26	Sanks/Hernandez/Hoffard
Class I Permit Renewal	every 2 years	3/26/25	3/31/27	Sanks/Hernandez/Hoffard
Backflow Inspection	Annual	1/22/26	1/30/27	Hernandez/Hoffard
Reclaim Water Testing (City of Anaheim)	Every 4 years	4/28/25	12/30/28	Hoffard/Hernandez

CANYON POWER PLANT COMPLIANCE MATRIX

CY 2025 WQMP REPORTING

Storm Drain Systems	Period	Last Done	Next Due	Responsibility
Catch Basins (25) inspection	Semi-Annual (in-house)	7/23/25	7/30/26	Hernandez/Hoffard
Infiltration Vault	Annual Inspection	7/23/25	7/30/26	Hernandez/Hoffard
Contech Storm Filters	Annual Inspection	7/23/25	7/30/26	Hernandez/Hoffard

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 2
FACILITY OPERATIONAL STATUS REPORT

Overall Project Status

Canyon Power Plant construction was completed in August 2011. Units 3 and 4 were ready for commercial operation on July 27, 2011. Units 1 and 2 were ready for commercial operation on September 15, 2011.

All four gas turbines were in commercial operation for the entire compliance year 2025 and there were no operational changes.

CANYON POWER PLANT

ANNUAL COMPLIANCE REPORT

ATTACHMENT 3

CEC APPROVED POST CERTIFICATION CHANGES

No California Energy Commission (CEC) approved post certification changes

On August 19, 2021, South Coast AQMD issued the final Title V Facility Permit Renewal and no revisions or changes in CY 2025.

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 4
MISSED SUBMITTAL DEADLINES

Canyon Power Plant submitted all required compliance reports to the Federal, State and Local regulatory agencies on the required due dates, and no missed submittal deadlines for CY 2025.

CANYON POWER PLANT

ANNUAL COMPLIANCE REPORT

ATTACHMENT 5

PERMIT FILINGS AND PERMITS ISSUED DURING THE PERIOD

Canyon Power Plant submitted a Title V Renewal application on February 25, 2020. The SCAQMD issue the final Title V Facility Permit to Canyon Power Plant on August 19, 2021, and expires August 18, 2026.

CANYON POWER PLANT

ANNUAL COMPLIANCE REPORT

ATTACHMENT 6

PROJECTED COMPLIANCE TESTING

Projected Environmental Compliance Testing schedule in CY 2026:

Compliance Test	Frequency	Scheduled Quarter
NH3 Slip Test	Annual	3Q; 4Q
RATA Test	Annual or Semi-Annual	3Q; 4Q
Cooling Tower TDS/PM10	Quarterly	All four Quarters
Cooling Tower Legionella	Quarterly	All four Quarters
Fuel H ₂ S Test	Monthly	January through December
Fuel Flow Accuracy	Annual	2Q
SCR Differential Pressure	Annual	1Q
SCR Inlet Temperature	Annual	1Q
NH3 Flow Meter Calibration	Annual	1Q
Linearity/CGA Test	Quarterly	All four Quarters
PM10/SO ₂ /VOC	Triennial	3Q; 4Q
PM10	Every 18 months for 3 years	None Required

CANYON POWER PLANT

VARIOUS COMPLIANCE REPORTS

ATTACHMENT 7

ADDITIONS TO ON-SITE COMPLIANCE FILE PLANT COMPLIANCE REPORTS

California Energy Commission (CEC)

- Quarterly reports
- Quarterly 1304 Report
- Annual report
- Potable water used records
- Cooling Tower Legionella test report
- Cooling Tower TDS test reports
- Monthly Natural gas burn records
- Monthly Reclaim Water Used reports
- Monthly Potable Water Used reports

California Independent System Operator (CAISO)

- Certificate of Compliance

California Air Resource Board (CARB)

- Greenhouse gas records
- Annual refrigerant report
- Annual SF6 use report
- Refrigerant monitor calibration report

Diesel Engine

- Maintenance Reports
- Fuel purchase records
- Engine run-time records
- Hi-Back calibration report
- Engine tune up report

U.S. Energy Information Administration (EIA)

- Annual/Monthly EIA 923 report
- Annual EIA 860 report

Environmental Protection Agency (EPA)

- Part 98 Greenhouse Gas reports
- Certificate of Representation forms
- Quarterly Acid Rain report
- Quarterly Acid Rain report & feedback report
- Annual Form 500-ACC

Regional Clean Air Market (RECLAIM)

- Daily submittals
- Monthly submittals
- Quarterly submittals
- SCAQMD QCER Forms
- SCAQMD 500-N Forms
- SCAQMD 500-SAM Forms
- SCAQMD 500-ACC Form
- SCAQMD APEP Form
- SCAQMD AER Report
- SCAQMD Rule 218 Semi-annual reports
- RECLAIM RTC holdings records

South Coast Air Quality Management District (SCAQMD)

- NOV & NTCs issued by the SCAQMD
- SCAQMD responses to 500-N forms
- Monthly Natural H₂S gas test reports

Orange County Sanitation District (OCSAN)

- Monthly Effluent Water reports
- Semi-annual

Calibration Records

- Fuel flow meter calibration report
- Water flow meter calibration report
- NH₃ flow meter calibration report
- SCR DP transducer calibration report
- SCR inlet temperature transducer Cal report
- SCR outlet temperature transducer Cal report

Calibration gas logs

- Linearity test reports
- Part 75 RATA test reports
- RECLAIM RATA test reports
- Rule 218 (CO) RATA test reports
- NH₃ slip test reports

Triennial compliance testing

- VOC, PM₁₀ and ROG emissions

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 8
UN-PLANNED FACILITY CLOSURE PLAN REVIEW

An “Un-Planned Facility Closure Plan” was drafted and submitted to the California Energy Commission (CEC) in the First Quarter of 2014. Currently, no revisions or changes are required.

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 9

Notice of Violation or Notice to Comply
Issued in CY 2025

No Notices of Violation
Issued by a Regulatory Agency in CY 2025

No Notices to Comply
Issued by a Regulatory Agency in CY 2025

SCAQMD FORM 500-N
Title V – Deviations, Emergencies & Breakdowns
Submitted by Canyon Power Plant

Canyon Power Plant did not experience any Deviations, Emergencies &
Breakdowns in CY 2025

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 10
CONDITION HAZ-1

2025 List of Hazardous Materials contained at the facility:

- **Aqua Ammonia 19%**
- **Acetylene**
- **Argon**
- **Oxygen**
- **Batteries**
- **Calibration gases for the CEMS**
- **CO₂**
- **Diesel Fuel**
- **Fire suppression chemicals**
- **Fluorescent light bulbs**
- **Freon for the chiller systems R-123**
- **Gas Turbine oil**
- **Gas compressor oil**
- **Reagents for the water treatment system**
- **SF₆ in switch gear**
- **Anti-Scalent RL 9007**
- **ChemTreat BL124**
- **Microbiocide ChemTreat CL2156**
- **ChemTreat CL6860**
- **12.5% Sodium Hypochlorite Solution**
- **Simple Green**
- **ChemTreat CL41**
- **ChemTreat Microbiocide CL206**
- **Powerback Concentrate with Anti-Foam Agent**
- **Unleaded gasoline**
- **Propane**

1a*	201	205	207*	209	210a
CERSID	ChemicalLocation	ChemicalName	CommonName	CASNumber	PFCCodeHazardClass
10445230	12 kV Substation, Electrical Building (BPO EEE Room)		Lead-Acid Batteries		5
10445230	GAS COMPRESSOR YARD	Natural Gas	Natural Gas	8006-14-2	8
10445230	SHOP-WAREHOUSE	Oxygen	Oxygen Gas	7782-44-7	18
10445230	SHOP-WAREHOUSE	Acetylene	Acetylene	74-86-2	33
10445230	DRUM STORAGE AREA	Oil	WASTE OIL	8012-95-1	4
10445230	DRUM STORAGE AREA		POWERBACK CONCENTRATE WITH ANTIFOAM AGENT		
10445230	DRUM STORAGE AREA		Simple Green		
10445230	WATER TREATMENT		ChemTreat CL6860		5
10445230	WATER TREATMENT		ChemTreat CL 2156		5
10445230	WATER TREATMENT		ChemTreat BL 124		5
10445230	WATER TREATMENT		MICROBIOCIDE CL206 CHEMTREAT		
10445230	Chiller Enclosure	Freon Refrigerant R-123	Freon	306-83-2	
10445230	IN FIRE FIGHTING EQUIPMENT - VARIOUS AREAS	CARBON DIOXIDE	CO2	124-38-9	
10445230	SUBSTATION BUILDING	SULFUR HEXAFLUORIDE	SF6	2551-62-4	
10445230	Outside of Warehouse/Cylinder Storage Cage	PROPANE	PROPANE	74-98-6	8
10445230	WAREHOUSE, NEAR EXHAUST TOWERS, & MEE BLDG	CEMS Calibration Gas	CALIBRATION GAS		
10445230	NEAR COOLING TOWER AND IN DRUM STORAGE AREA		SODIUM HYPOCHLORITE SOLUTION (12.5%)		5
10445230	NEAR COOLING TOWER AND IN DRUM STORAGE AREA		BIOCIDE (CHEMTREAT CL41)		
10445230	IN TRANSFORMERS		MINERAL OIL		4
10445230	NATURAL GAS COMPRESSORS AND DRUM STORAGE AREA		MOBIL PEGASUS 805 OIL		4
10445230	HYDRAULIC STARTERS AND DRUM STORAGE AREA		MOBIL DTE 25 OIL		4
10445230	ELECTRIC GENERATORS AND DRUM STORAGE AREA		MOBIL DTE LIGHT OIL		4
10445230	IN TURBINE ENGINES and DRUM STORAGE AREA		MOBIL JET OIL II		3
10445230	BENEATH BACK-UP GENERATOR		DIESEL FUEL		2
10445230	AMMONIA STORAGE TANK		AQUEOUS AMMONIA (19%)		5
10445230	RO WATER TREATMENT & DRUM STORAGE AREA		ANTISCALENT RL 9007		



File Report for "City of Anaheim"

Year of Filing: 2024

Submitted Date: 2/21/2025

Submitted By: Bertha Hernandez

Company Profile

Company Name: City of Anaheim

Contact Person Details

Person Name: Ronald Hoffard
Phone: Contact: 7147654536
Email: rhoffard@anaheim.net

Location Address Information

3071 East Miraloma Ave.
Anaheim, CA 92806

Facility Profile

Facility Name: Canyon Power Plant Federal tax Id:

Contact Person Details

Person Name: Ronald Hoffard
Phone: Contact: 7147654536
Email: rhoffard@anaheim.net

Location Address Information

3071 East Miraloma Ave.
Anaheim, CA 92806

Business Codes

NAICS Code: 221122 SIC Code: 491100

Annual Report Information and Documentation

Service Record data is not available in violation of C.C.R. §95388(b)(2)

ALD Servicing data is not available in violation of C.C.R. §95388(b)(2)

Reason :

Appliance Listing

	Appliance Na...	Appliance ID	Operational S...	Equipment Ty...	Full Charge A...	Installation D...	Refrigeration ...
1	CH-100	APP-0000197	Normal Ope...	Chiller (Refri...	5200	Wednesday, ...	R-123 - HCF...
2	CH-200	APP-0000198	Normal Ope...	Chiller (Refri...	5200	Wednesday, ...	R-123 - HCF...

Automatic Leak Detection (ALD) Systems

	ALD System Name	ALD System Id	Installation Date	Leak Detection Syste...	Appliances
1	301-IRF A	APP-0046128	2011-05-12	Concentration Moni...	CH-100, CH-200

Leak Inspection and Service Listing

	Service Date	Appliance Name	Appliance Id	Refrigerent Type	Service Type	Leaks
1	2024-12-03	CH-100	APP-0000197	R-123 - HCFC-123	Leak Inspection	No
2	2024-12-03	CH-200	APP-0000198	R-123 - HCFC-123	Leak Inspection	No

Automatic Leak Detection (ALD) Servicing

	Service Date	ALD System Name	ALD System Id	ALD Service Type
1	2024-10-01	301-IRF A	APP-0046128	Calibration

Refrigerant Purchase and Use Information

	Type	Total Purchas...	Total Charged...	Total Stored (l...	Total Shipped...	Total Recover...	Reason
1	R-123 - HCFC...	0	0	0	0	0	

Do you claim any of this information is confidential under California law?

No

Enter claim of Confidentiality :

Comment :

CONTACT US

rmp@arb.ca.gov (mailto:rmp@arb.ca.gov) | 916-324-2517 (tel: 916-324-2517)

1001 I Street, Sacramento, CA 95814

P.O. Box 2815, Sacramento, CA 95812



Invoice No: RMP-2024-140792

Invoice For Year: 2024

CARB REFERENCE CODE:

Dated: 02/21/25

Status: Paid

City of Anaheim

#	Facility Name	Amount Due(\$)	Exemption	Total (\$)
1	Canyon Power Plant	370	0.0	370
Total Charges				0

Air Resources Board

Attn: Accounting

P.O. Box 1436

1001 I St., Floor 20

Sacramento, CA 95812-1436

CONTACT US

rmp@arb.ca.gov (mailto:rmp@arb.ca.gov) | [916-324-2517](tel:916-324-2517) (tel: 916-324-2517)

1001 I Street, Sacramento, CA 95814

P.O. Box 2815, Sacramento, CA 95812



Payment Receipt

Merchant : RMP, 1001 I St 8th Fl, Sacramento, CA 95814, 279-842-9957
Account : 1001786168 - CA Air Resources Board
Customer : City of Anaheim - Ronald Hoffard
Transaction Amount : 370.00
Fee Amount : 11.06
Total Amount : 381.06
Paid On : 2/24/2025 7:26:03 AM

Payment Summary

Type	Last 4	PG Transaction ID	Transaction Amount	Authorization Code	Return Description
VISA	1858	555108037564	370.00	096365	Transaction successful.

Custom Fields

Invoice Number	Company Name	Program Name	Payment Year
140792	City of Anaheim	Refrigerant Management Program (RMP)	2024

Service fee has been charged as a separate transaction.

Click here to Sign In to [SnapPay](#)

Contact Information

Tel: [\(888\)888-8888](tel:(888)888-8888)
Email: Support

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 11
CONDITION HAZ-8

In the annual compliance report, the project owner shall include the following statements:

“All current project employee and appropriate contractor background investigations have been performed and that updated certification statements have been appended to the operations security plan”.

All current project employees and appropriate contractor background investigations have been performed and that updated certification statements have been appended to the operations security plan.

“The operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations”.

The operations security plan includes all current hazardous materials transport vendor certifications for security plans and employee background investigations.

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 12
SOIL & WATER USE REPORT-7

Monthly Water Reading Reports
Recycle and Potable water usage
&
Wastewater Flow Meter Calibration Report

Company: City of Anaheim/Canyon Power Plant
 Plant Location: 3071 E. Miraloma Ave.
 City/State/Zip: Anaheim, CA 92806

Period Start: 1/1/2025
 Period End: 12/31/2025

Recycle Water Usage

Annual Total Gallons	Annual Total Acre Feet	Monthly Average Gallons	Monthly Average Acre Feet	Monthly Minimum Gallons	Monthly Minimum Acre Feet	Monthly Maximum Gallons	Monthly Maximum Acre Feet	Average Gallons Per Day
5,143,592	15.79	428,633	1.32	246,108	0.76	992,662	3.05	14,050

Company: City of Anaheim/Canyon Power Plant
 Plant Location: 3071 E. Miraloma Ave.
 City/State/Zip: Anaheim, CA 92806

Period Start: 1/1/2025
 Period End: 12/31/2025

Potable Water Usage

Annual Total Gallons	Annual Total Acre Feet	Monthly Average Gallons	Monthly Average Acre Feet	Monthly Minimum Gallons	Monthly Minimum Acre Feet	Monthly Maximum Gallons	Monthly Maximum Acre Feet	Average Gallons Per Day
167,182	0.51	6,966	0.02	0.00	0.00	62,739	0.19	227

Annual Data

	Recycle Water		Potable Water	
	Annual Total Acre Feet	Annual Total Gallons	Annual Total Acre Feet	Annual Total Gallons
2023	605.98	197,459,018	0.87	284,319
2024	34.81	11,343,430	0.78	253,140
2025	15.79	5,143,592	0.51	167,182
Average	218.86	71,315,347	0.72	234,880
Min	15.79	5,143,592	0.51	167,182
Max	605.98	197,459,018	0.87	284,319

Company: City of Anaheim
Plant Location: 3071 E. Miraloma Ave.
City/State/Zip: Anaheim, CA 92806

Period Start: 1/1/2025
Period End: 12/31/2025

Recycled Water Usage

Date	Start Cubic-ft	End Cubic-ft	Total Cubic-ft	Month gal	Daily gal	Month Acre-ft
1/1/2025	30,716,500	30,758,800	42,300	316,425.15	10,207.26	0.97
2/1/2025	30,758,800	30,791,700	32,900	246,108.45	8,789.59	0.76
3/1/2025	30,791,700	30,836,100	44,400	332,134.20	10,714.01	1.02
4/1/2025	30,836,100	30,873,000	36,900	276,030.45	9,201.02	0.85
5/1/2025	30,873,000	30,940,600	67,600	505,681.80	16,312.32	1.55
6/1/2025	30,940,600	30,982,700	42,100	314,929.05	10,497.64	0.97
7/1/2025	30,982,700	31,036,800	54,100	404,695.05	13,054.68	1.24
8/1/2025	31,036,800	31,169,500	132,700	992,662.35	32,021.37	3.05
9/1/2025	31,169,500	31,267,500	98,000	733,089.00	24,436.30	2.25
10/1/2025	31,267,500	31,315,700	48,200	360,560.10	11,630.97	1.11
11/1/2025	31,315,700	31,365,900	50,200	375,521.10	12,517.37	1.15
12/1/2025	31,365,900	31,404,100	38,200	285,755.10	9,217.91	0.88
Annual Total:			687,600	5,143,591.80		15.79
Average:			57,300	428,632.65	14,050.03	1.32
Monthly Minimum:			32,900	246,108.45		0.76
Monthly Maximum:			132,700	992,662.35		3.05

Company: City of Anaheim
 Plant Location: 3071 E. Miraloma Ave.
 City/State/Zip: Anaheim, CA 92806

Period Start: 1/1/2025
 Period End: 12/31/2025

Potable Water Usage

HCF-1

Date	Start Cubic-ft	End Cubic-ft	Total Cubic-ft	Month gal	Daily gal	Month Acre-ft
1/1/2025	1,171,800	1,171,800	0.00	0.00	0.00	0.00
2/1/2025	1,171,800	1,171,800	0.00	0.00	0.00	0.00
3/1/2025	1,171,800	1,172,000	200.00	1,496.10	48.26	0.00
4/1/2025	1,172,000	1,172,000	0.00	0.00	0.00	0.00
5/1/2025	1,172,000	1,172,000	0.00	0.00	0.00	0.00
6/1/2025	1,172,000	1,172,100	100.00	748.05	24.94	0.00
7/1/2025	1,172,100	1,172,100	0.00	0.00	0.00	0.00
8/1/2025	1,172,100	1,172,300	200.00	1,496.10	48.26	0.00
9/1/2025	1,172,300	1,172,300	0.00	0.00	0.00	0.00
10/1/2025	1,172,300	1,172,500	200.00	1,496.10	48.26	0.00
11/1/2025	1,172,500	1,172,500	0.00	0.00	0.00	0.00
12/1/2025	1,172,500	1,172,800	300.00	2,244.15	72.39	0.01
Annual Total:			1,000.00	7,480.50		0.02
Average:			83.33	623.38	20.18	0.00
Monthly Minimum:			0.00	0.00		0.00
Monthly Maximum:			300.00	2,244.15		0.01

HCF-2

Date	Start Cubic-ft	End Cubic-ft	Total Cubic-ft	Month gal	Daily gal	Month Acre-ft
1/1/2025	310,361	311,392	1,031	7,712.40	248.79	0.02
2/1/2025	311,392	312,564	1,172	8,767.15	313.11	0.03
3/1/2025	312,564	313,552	988	7,390.73	238.41	0.02
4/1/2025	313,552	314,662	1,110	8,303.36	276.78	0.03
5/1/2025	314,662	323,049	8,387	62,738.95	2,023.84	0.19
6/1/2025	323,049	324,061	1,012	7,570.27	252.34	0.02
7/1/2025	324,061	325,079	1,018	7,615.15	245.65	0.02
8/1/2025	325,079	326,566	1,487	11,123.50	358.82	0.03
9/1/2025	326,566	327,653	1,087	8,131.30	271.04	0.02
10/1/2025	327,653	329,059	1,406	10,517.58	339.28	0.03
11/1/2025	329,059	330,255	1,196	8,946.68	298.22	0.03
12/1/2025	330,255	331,710	1,455	10,884.13	351.10	0.03
Annual Total:			21,349.00	159,701.19		0.49
Average:			1,779.08	13,308.43	434.78	0.04
Monthly Minimum:			988.00	7,390.73		0.02
Monthly Maximum:			8,387.00	62,738.95		0.19

HCF-1 and HCF-2 Meters

Annual Total:		22,349.00	167,181.69		0.51
Average:		931.21	6,965.90	227.48	0.02
Monthly Minimum:		0.00	0.00		0.00
Monthly Maximum:		8,387.00	62,738.95		0.19

January 19, 2026

Mr. Kevin Nugent
Source Control Program
Orange County Sanitation Districts
10844 Ellis Avenue
Fountain Valley, CA 92708

Subject: Effluent Flow Meter Hydraulic Calibration Report

Facility: City of Anaheim
Canyon Power Plant
3071 E. Miraloma Ave.
Anaheim, CA 92806
I.W. Permit No. 1-600296

Dear Mr. Nugent,

Enclosed is our report on the effluent flow meter hydraulic calibration completed at the subject facility on January 14, 2026. The calibration was conducted in accordance with requirements of the Orange County Sanitation District, and the meter was determined to be operating within $\pm 5\%$ accuracy limits for the entire range tested.

If you have any questions regarding this calibration report, please contact me directly, or Bertha A. Hernandez at the City of Anaheim.

Sincerely,



Marco A. Gomez, P.E.
Project Engineer

Enclosures

cc: Bertha A. Hernandez, City of Anaheim

**WASTEWATER FLOW METER
HYDRAULIC CALIBRATION**

PREPARED BY



FOR

**City of Anaheim
Canyon Power Plant
3071 E. Miraloma Ave.
Anaheim, CA 92806**

I.W. Permit No. 1-600296

January 14, 2026



EFFLUENT FLOW METER CALIBRATION REPORT

Company Name: City of Anaheim Permit No.: 1-600296

Discharge Address: 3071 E. Miraloma Ave. Anaheim, CA 92806

Mailing Address: 201 S. Anaheim Blvd. Suite 1101 Anaheim, CA 92805

Meter Location [Use Meter Location Form (page 3) to identify location]

a b c d Other: (Attach sketch)

Effluent Meter Description

Open Channel

A. Flume:

- Parshall Flume
- Palmer-Bowlus Flume
- Trapezoidal
- Other, Specify: _____

B. Weir.

- V-notch
- Rectangular
- Trapezoidal
- Other, Specify: _____

C. Other

Description: _____

In-line

- Magnetic
- Propeller
- Ultrasonic
- Other, Specify: _____

Effluent Meter Description

Primary Element

Size: 4"

Manufacturer: Badger M2000

Magmeter

Secondary Element

Manufacturer: N/A

Recorder's 100% span = N/A GPM

Totalizer Units: = 1 Gallons per Count

Sampling Signal Contact Closure Frequency: 1 closure per N/A gallons discharged.

Current Facility Wastewater Discharge Rate to Sewer Determined by Calibration Engineer

Average -- GPM

Peak -- GPM



EFFLUENT FLOW METER CALIBRATION REPORT

5. Calibration Results

Type of Calibration: Hydraulic Instrument

Calibration System		Existing Meter				Error (%)	
Flow Rate GPM	Total Discharge Gallons	Primary Element's Head	Flow Rate, GPM		Total Discharge Gallons	Recorder	Totalizer
			Indicator	Recorder			
268.0	1010	--	273.8	--	1028	--	1.8%
200.7	706	--	203.1	--	717	--	1.6%
152.2	560	--	154.5	--	572	--	2.1%
103.7	373	--	106.0	--	380	--	1.9%

A copy of all data collected and of any calculations performed must be attached to this form.

6. Method of Calibration Results *(attach additional sheets if necessary)*

Hydraulic: (For in line flow meters describe calibration/simulator system)

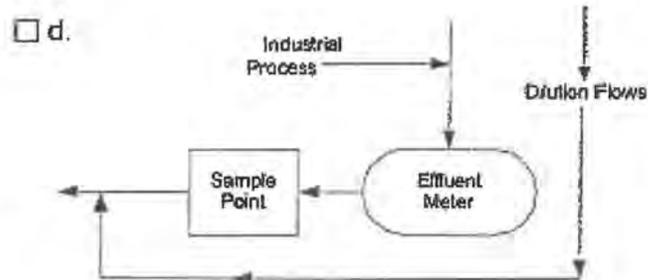
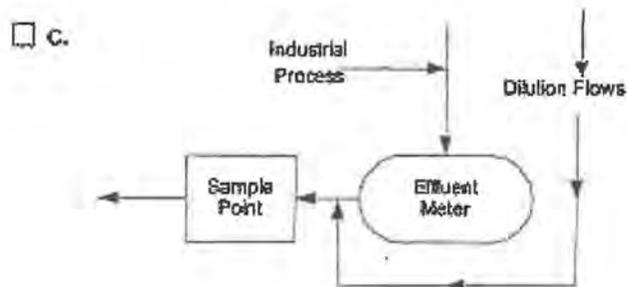
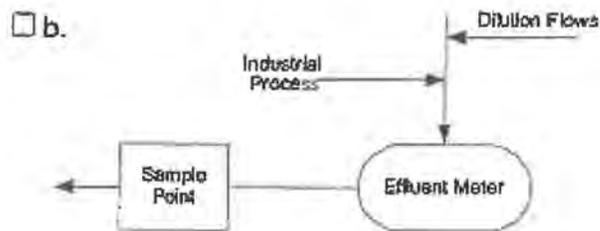
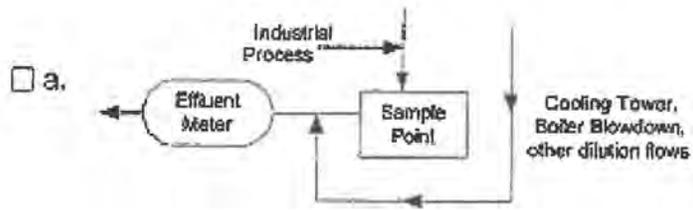
Various flow rates were achieved using 125' of 2.5" fire hose connected from a local hydrant to our 2" Halliburton turbine flow meter, then to the subject 4" M2000 Badger magnetic flow meter. At each rate tested, the subject flow meter's totalizer was timed using an electronic stopwatch for a number of counts. The accumulated volume was then compared to the actual volume to determine the totalizer's accuracy.

Instrument:

7. Corrective Measures *(describe condition of flow meter prior to calibration and state if any adjustments were made):*

No corrective measures were required.

EFFLUENT FLOW METER LOCATION FORM

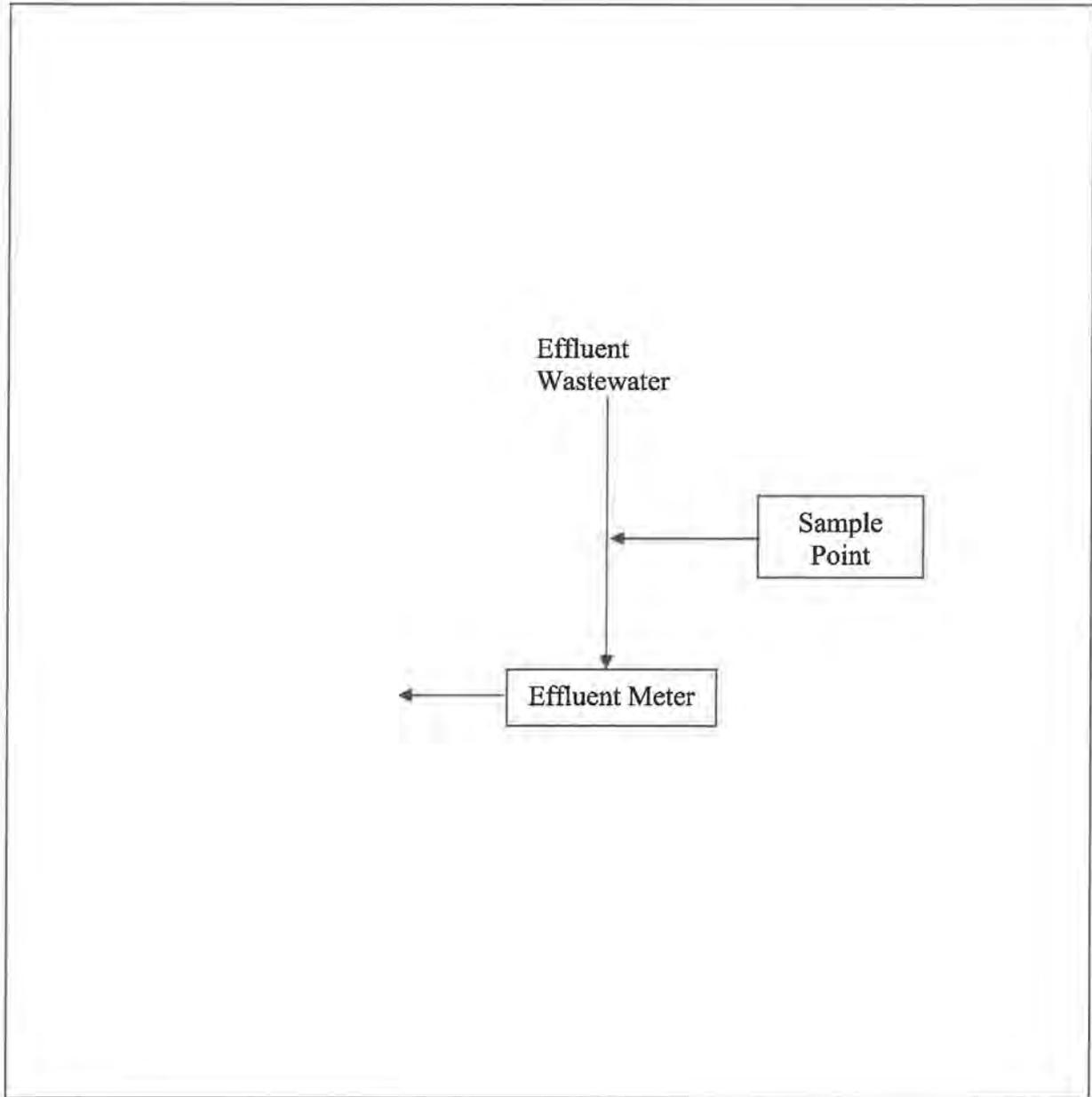


Other

Please provide a schematic of the location of the effluent flow meter

Attachment:

Effluent Flow Meter Location





EFFLUENT FLOW METER MAINTENANCE RECORDS

Company Name: City of Anaheim Permit No.: 1-600296

Discharge Address: 3071 E. Miraloma Ave., Anaheim, CA 92806

Mailing Address: 201 S. Anaheim Blvd., Suite 1101, Anaheim, CA 92805

Name of Responsible Person : Bertha A. Hernandez Telephone No. 714-765-4243

Recorder's 100% span = N/A GPM Totalizer: 1 Gallons per Count

Type of Flow Meter: 4" Badger M2000 Magmeter

Recorder Chart Change Frequency: Daily Weekly Monthly *(not applicable)*

REGULAR CLEANING MAINTENANCE				
Primary Element Cleaned	Level Measuring Equipment Cleaned	Other (describe)	Date	By
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	02/11/16	Yip / Paz
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	02/09/17	Yip / Paz
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/10/18	Yip / Vitug
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/10/19	Paz / Gomez
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/10/20	Yip / Gomez
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/20/21	Yip / Gomez
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/20/22	Yip / Gomez
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/09/23	Yip / Paz
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/17/24	Yip / Gomez
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/16/25	Yip / Paz
N/A	N/A	Hydraulic Calibration by Flowtrace Division of The Conservtech Group	01/14/26	Yip / Paz



CERTIFICATION OF CALIBRATION CHECK

(Certification of Test Results by a California Registered Professional Engineer)

I hereby certify that I am knowledgeable in the field of wastewater flow measurement and that I have supervised the calibration of the flow monitoring system as described on the previous page, and also have reviewed and approved all details of the method of calibration. I consider the calibration method and procedures used to be technically sound, and assume professional responsibility for the validity and accuracy of the results reported.

[Handwritten Signature]

(Signature)

Marco A. Gomez, P.E.

(Full Name – Please Print or Type)



M40596 Expires 12/31/27

(California Professional Engineering Certification No.)

Mechanical

(Engineering Discipline)

1/19/26

(Date)

**CERTIFICATION OF TEST RESULTS BY
AN ADMINISTRATIVE OFFICIAL OF THE COMPANY**

City of Anaheim

(Company Name)

1-600296

(Permit No.)

I hereby certify that the flow monitoring system certified as properly calibrated above is so arranged and operated, so as to accurately measure and record the industrial wastewater flow to the sewer system.

[Handwritten Signature]

(Signature)

RON HOFFARD

(Full Name – Please Print or Type)

GENERATION PLANT MANAGER

(Administrative Position in Company)

1/26/26

(Date)

Appendix:

Field Calibration Data
Calibration Certificate

Recorder: MAX = _____ GPM AVG = _____ PK = _____	Totalizer: Finish: <u>124043723</u> Start: <u>124038299</u> Diff: <u>5,434</u> MULT: <u>1</u> Total: <u>5,434</u> gallons	Client: <u>City of Anaheim - Canyon Power Plant</u> Date: <u>1/14/26</u> IW#: <u>1-600296</u> Element: <u>4" Pipe</u> Instrument: <u>4" Badger Meter M2000</u> Recorder: <u>--</u>
Sampler: Contact Closure = <u>N/A</u> gallons/pulse		

Calibrated Flows and Data									Meter		Recorder			Totalizer	
Turbine		Manometer - inches					Duration	Total	W.C.	Flow	Reading		Error	Total	Error
cycles	gpm	+	-	Δ	w.c.	gpm	min	gal	in.	gpm	%	gpm	%	gal	%
	268.0						3.75	1010		273.8				1028	1.8
	200.7						3.52	706		203.1				717	1.6
	152.2						3.68	560		154.5				572	2.1
	103.7						3.60	373		106.0				380	1.9

Calibration Type

Instrumentation
 Hydraulic

Hydraulic Meter Used:

Turbine Meter, 1", Haliburton, Threaded

Turbine Meter, 1.5", XO Technologies, 150# Flange

Turbine Meter, 2", Haliburton, flanged

Turbine Meter, 4", XO Technologies, 150# Flange

Turbine Meter, 4", Haliburton, flanged

Other: _____

K: 4.86

Notes:

① $\begin{array}{r} 4140040 \\ - 4039012 \\ \hline 1028 \end{array}$ @ 3:45

② $\begin{array}{r} 4041529 \\ - 4040812 \\ \hline 717 \end{array}$ @ 3:31

③ $\begin{array}{r} 4042712 \\ - 4042140 \\ \hline 572 \end{array}$ @ 3:41

④ $\begin{array}{r} 4043406 \\ - 4043026 \\ \hline 380 \end{array}$ @ 3:36



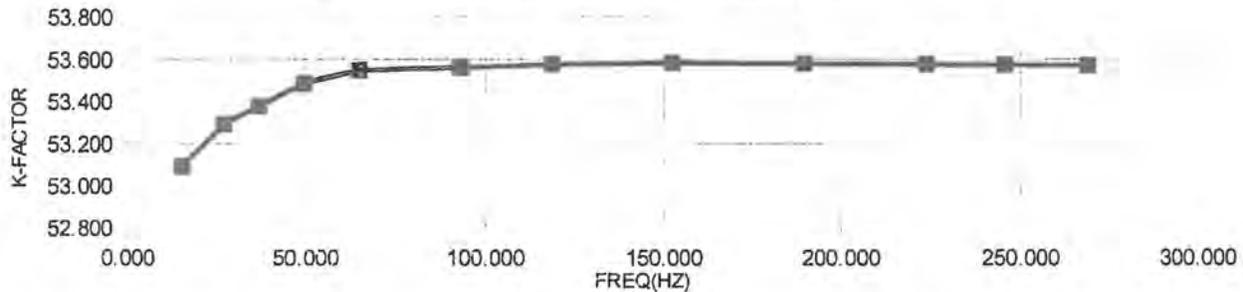
CERTIFICATE OF CALIBRATION

CUSTOMER:	CONSERVTECH COMMERCE, CA	CALIBRATION DATE:	08/07/25
VSR NUMBER:	9785	CALIBRATION DUE:	08/07/26
INST. MANUFACTURER:	HALLIBURTON	PROCEDURE:	NAVAIR17-20MG,NIST250
INST. DESCRIPTION:	TURBINE METER	CALIBRATION FLUID:	H2O @ 70°F
MODEL NUMBER:	458.99101 (2")	ARRIVAL CONDITIONS:	WITHIN MFG. SPEC.
SERIAL NUMBER:	2SBF3677	RETURNED CONDITIONS:	WITHIN MFG. SPEC.
RATED ACCURACY:	+/- .5% R.D.	AMBIENT CONDITIONS:	760mmHGA 55%RH 70°F
UNCERTAINTY GIVEN:	TOTAL measurement uncertainty +/- .151% RD K=2	CERTIFICATE FILE #:	503393.2025

NOTES: ** CALIBRATED WITH DMC. MAG COIL **

DECISION RULE: SIMPLE ACCEPTANCE. MEASUREMENT UNCERTAINTIES NOT TAKEN INTO CONSIDERATION WHEN DETERMINING PASS/FAIL

TEST POINT NUMBER	INDICATED UUT FREQ(HZ)	DM.STD. ACTUAL GPM	ACTUAL K-FACTOR PUL GAL.
1	15.242	17.226	53.092
2	27.206	30.632	53.290
3	36.882	41.458	53.377
4	49.496	55.524	53.486
5	64.824	72.635	53.548
6	92.955	104.129	53.562
7	118.491	132.698	53.576
8	152.305	170.544	53.583
9	189.542	212.256	53.579
10	223.526	250.326	53.576
11	245.348	274.785	53.572
12	268.831	301.102	53.569



STANDARDS USED:

A716 ENDRESS & HAUSER .2 - 300 GPM .1% RD TRACE# 1615794932,1615795146	DUE	04/17/26
A350 10 TO 1500 GPM .017%RD 100 TO 3000 GPM .15%RD TRACE# 2024002767,2768,2769/2770	DUE	01/28/26
A450 DATA AQ CART .008%RD HZ,VDC,MADC,DEG.F TRACE# 1616403002, DMC9138	DUE	01/10/26

All instruments used in the performance of the shown calibration have traceability to the National Institute of Standards and Technology (NIST). Unless otherwise directed by the customer, Dick Munns uses a decision rule of Simple Acceptance as defined in ILAC G8 with a TUR of 1:1 or better. Calibration has been performed according to the shown procedure. The use of IAS/ILAC logo indicates calibrations are in accordance to ISO/IEC 17025:2017.

Dick Munns Company • 11133 Winners Circle, Los Alamitos, CA 90720
Phone: 714-827-1215 • www.dickmunns.com

This Calibration Certificate shall not be reproduced except, in full, without approval by Dick Munns Company. The data shown applies only to the instrument being calibrated and under the stated conditions of calibration.

Issuing Date:

8/7/2025

Approved By:

Cal. Technician:

Calibrated at: Lab

On-Site (Customer's)

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 13
SOIL & WATER REPORTS-8

**OCSD Wastewater Quality Semi-Annual
Monitoring Reports**

Addressee	Start Time	Time	Prints	Result	Note
OCSD	04-30 09:44	00:01:15	008/008	OK	

Note TMR:Timer TX, PDL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DSP:Page Separation TX, MXY:Mixed Original TX, CALL:Manual TX, CSR:C98C, FWD:Forward, PC:PC-FAX, BND:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLV:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX FROM TEL, NS: Other Error, Cont: Continue, No Ans: No Answer, Refuse: Receipt Refused, Busy: Busy, M-Full:Memory Full, LOUR:Receiving length over, PQR:Receiving page over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error, PRINT:Compulsory Memory document Print, DEL:Compulsory Memory document Delete, SEND:Compulsory Memory document send.



CITY OF ANAHEIM
PUBLIC UTILITIES DEPARTMENT
Environmental Services
Letter of Transmittal

To:	Mr. Brian Finkelstein Orange County Sanitation District Resource Protection Division 10844 Ellis Avenue Fountain Valley, CA 92708-7018	Date:	4/30/2025
		Project	Canyon Power Plant 3071 E. Miraloma Ave. Anaheim, CA 92806
		Subject:	Semi-Annual Self-Monitoring SMR # S-190689

We are sending you:

Copy of Original	Description
1	Completed Semi-Annual Form OCSD Self-Monitoring Form for City of Anaheim Canyon Power Plant (Permit No. 1-600296).

These are transmitted:

<input checked="" type="checkbox"/> 1	As requested	<input type="checkbox"/>	For your action	<input type="checkbox"/>	For your files
<input type="checkbox"/>	For approval	<input type="checkbox"/>	For your review	<input type="checkbox"/>	For your information

Via: US Mail FAX # 8 of pgs. Hand Delivery
(714) 378-1277

Remarks: Please contact me at (714) 765-7481 or bhernandez@anaheim.net if you have any questions regarding this submittal.

By: *Bertha*
Bertha A Hernandez, Environmental Services Specialist



CITY OF ANAHEIM
PUBLIC UTILITIES DEPARTMENT
 Environmental Services
 Letter of Transmittal

To:	Mr. Brian Finkelstein Orange County Sanitation District Resource Protection Division 10844 Ellis Avenue Fountain Valley, CA 92708-7018	Date:	4/30/2025
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<input type="checkbox"/>	For approval	<input type="checkbox"/>	For your review	<input type="checkbox"/>	For your information

Via: US Mail FAX # 8 of pgs. Hand Delivery
 (714) 378-1277

Remarks:

Please contact me at (714) 765-7481 or bhernandez@anaheim.net if you have any questions regarding this submittal.

B.A.H.

By: Bertha A Hernandez, Environmental Services Specialist



ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM

March 15, 2025

Ronald Hoffard, Generation Plant Manager
City of Anaheim, Public Utilities Department
201 S. Anaheim Blvd., #802
Anaheim, CA 92805

Subject: **REMINDER TO CONDUCT SELF-MONITORING**
Permit No. 1-600296

Please be reminded that Self-Monitoring must be conducted between **April 01, 2025 -- April 16, 2025** in accordance with your company's permit requirements. Self-Monitoring must be conducted during a production day in accordance with the guidelines detailed in your company's permit.

It is your responsibility to comply with the requirements set forth in your company's permit. Failure to comply with all the directives, conditions, and requirements of the permit may result in enforcement action against your company.

If your company's permit shows a self-monitoring requirement for total toxic organics (TTOs) and your company has received a waiver from this self-monitoring, you are now required to submit a signed TTOs SMR form to us to comply with the TTO waiver requirements of the U.S. Environmental Protection Agency. Please indicate in the "Sample Comments" that you have received a TTOs self-monitoring waiver from us.

For permittees that have monthly as well as quarterly and/or semi-annual self-monitoring requirements, the forms may list more than the SMR constituents required for the monthly self-monitoring. We ask that you adhere to your permit's self-monitoring requirements and sample only for the constituent(s) required on a monthly basis except when the quarterly and semi-annual self-monitoring are also required in the same month in which case all constituents listed on the form must be analyzed for as specified in your permit.

Finally, for those who are required to submit meter readings, a list of the meter readings submitted within the last year is attached to the SMR form for your reference and comparison to current readings.

Thank you for your patience and cooperation. If you have any questions, please contact Brian Finkelstein at 714-593-7452.

Brian Finkelstein
Senior Engineer



**ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM**

SMR No.: S-190690

SMR Type: Standard

City of Anaheim, Public Utilities Department

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

Sampling Dates: 04/01/2025 to 04/16/2025 Submit By Date: 04/30/2025
 Sample Start Date: 04/15/2025 Sample End Date: 04/16/2025
 Sample Start Time: 1325 HRS Sample End Time: 1325 HRS
 Sampling Point Location: Sampling Structure located in the center of the site

Contact Person: RONALD HOFFARD Contact Phone: 714. 765. 4536
 Contact Email: RHOFFARD@ANAHEIM.NET

No Discharge

Water Meter Readings: (If this is a batch discharge, enter volume only)

Location	Meter Type	Meter ID	Stop Reading	Start Reading	Volume	Units	Digits	Int
Center of site adjacent to the final clarifier/vault	Effluent Flow Meter	EM_1_60029 6	121566091	121562555	3536	G	9	

Composite

Sample Results: (If constituent is not detected or is less than detection limit, enter as reported in the lab results.)

Constituent	Result		EPA Method
	Result	Units	
BOD T	3.47	mg/L	SM5210B
TSS	ND	mg/L	SM2540D

Sample Comments: _____

Please note that OC San's fax number has changed. Please use the new fax number (714) 378-1277 effective immediately if submitting completed form by fax.

To Submit Data - Fax: (714) 378-1277 or
Mail: Orange County Sanitation District, Resource Protection Division, 18480 Bandilier Circle, Fountain Valley, CA, 92708



Questions: Contact Noemi Ramos at 714-593-7035

RH

Ronald Hoffard, please initial each page and submit all pages



ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM

SMR No.: S-190690

SMR Type: Standard

City of Anaheim, Public Utilities Department

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

This form must be completely filled out and Laboratory Analysis Report and Chain of Custody must be attached.

Please check if composite sample was obtained using an automatic sampling device: Yes () No

This form must be signed by the Responsible Officer or Designated Signatory:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.[40 C.F.R. § 403.6(a)(2)(ii) (2005)]

4/30/25

Signature (Ronald Hoffard)

Title (Generation Plant Manager)

Date

RONALD HOFFARD

Print Name

To Submit Data - Fax: (714) 378-1277 or
Mail: Orange County Sanitation District, Resource Protection Division, 18480 Bandilier Circle, Fountain Valley, CA, 92708

Questions: Contact Noemi Ramos at 714-593-7035

Ronald Hoffard, please initial each page and submit all pages



ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM

SMR No.: S-190690

SMR Type: Standard

City of Anaheim, Public Utilities Department

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

Sample Location: Compliance

<u>Meter Type</u>	<u>Equipment</u>		<u>Event ID</u>	<u>Start - End Date</u>	<u>End</u>	<u>Reading</u>		<u>Vol</u>	
	<u>Name</u>					<u>Start</u>	<u>End</u>		
EFFLUENT	EM_1_600296		190689	10/7/2024 - 10/8/2024	120121870 Gallon	120083106 Gallon	38764	GPD	
EFFLUENT	EM_1_600296		190688	4/9/2024 - 4/10/2024	117332539 Gallon	117326095 Gallon	6444	GPD	

To Submit Data - Fax: (714) 378-1277 or
Mail: Orange County Sanitation District, Resource
Protection Division, 18480 Bandilier Circle,
Fountain Valley, CA, 92708

Questions: Contact Noemi Ramos at
714-593-7035

RH

Ronald Hoffard, please initial each page and submit all pages



ALS Group USA, Corp.
3337 Michelson Drive, Suite CN750
Irvine, CA 92612
T +1 714 730 6239

Report

Client: Canyon Power Plant
3071 E Miraloma Ave
Anaheim, CA 92806

Work Order No.: 25D0296
Printed: 04/25/2025

Attention: Bertha Hernandez
Project Name: Canyon Power Plant Semi-Annually Wastewater
Project Number: Canyon Power Plant
P.O. Number: MA-106-491110 (exp 8/31/18)

CASE NARRATIVE

Date & Time Installed: 04/15/25 13:25pm
Date & Time Removed: 04/16/25 13:25pm

Flow Start Number: 121562555 GAL
Flow Stop Number: 121566091 GAL
Total Flow, GPD: 3,536

SAMPLE RECEIPT SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
1-600296 Composite	25D0296-01	Wastewater	Composite	04/16/2025 13:25	04/16/2025 15:54

DEFINITIONS

Symbol	Definition
GGA2	GGA (BS1) value was below the control limits for the target analyte. This represents a suspected low bias for the analyte.
BD	Blank unseeded oxygen depletion was greater than the method acceptance limit.
DF	Dilution Factor
MDL	Method Detection Limit
ND	Not Detected
RL	Reporting Limit

Respectfully yours,


Katherine Marroquin For Alice Lee
Project Manager

This report applies to the sample(s), or product(s), investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed. This report shall not be reproduced without the written consent of ALS Group, USA, Corp., and must be reproduced in its entirety.



Client: Canyon Power Plant

Project Name: Canyon Power Plant Semi-Annually Wastewater

Project Number: Canyon Power Plant

Printed: 04/25/2025

1-600296 Composite
25D0296-01 (Wastewater)

Analyte	Result	RL	Units	DF	Batch	Analyzed	Analyst	Method	Notes
---------	--------	----	-------	----	-------	----------	---------	--------	-------

ALS Group USA, Corp.

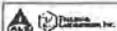
Wet Chemistry

Total Dissolved Solids	60.0	50.0	mg/L	1	2504528	04/23/2025 17:03	JMTC	SM 2540 C	
Total Suspended Solids	ND	2.50	mg/L	1	2504493	04/18/2025 10:00	LxH	SM 2540 D	

General Chemistry

Biochemical Oxygen Demand	3.47	2.00	mg/L	1	2504503	04/22/2025 14:10	JMTC	SM 5210B	5 Day BD
---------------------------	------	------	------	---	---------	------------------	------	----------	----------

This report applies to the sample(s), or product(s), investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed. This report shall not be reproduced without the written consent of ALS Group, USA, Corp., and must be reproduced in its entirety.



CHAIN OF CUSTODY

25D0296

DATE: 04/15-04/16/25
 REQUESTED TURNAROUND TIME: _____
 PAGE: _____ of _____

Key: Preservative: H= HCl S= H₂SO₄ N= HNO₃ T= Na₂S₂O₃ O= NaOH Z= Zn(Ac)₂
 Sample Container Type: A= Amber Glass M= Metal P= Poly T= Tube V= VOA O= Other
 EDD Req'n: _____
 Cool EDD _____ Other (Specify): _____
 CSV EDD _____
 DOT If selecting EDT, Client provide PS Code: _____

Client Information				REQUESTED TEST(S): Refer to Analyses Sheet for Codes				For Internal Use Only Work Order:																																									
Container Type: _____ Preservative: _____ COMPANY: <u>CITY OF ANAHEIM CANYON POWER PLANT</u> CONTACT: <u>Ronald Hoffard</u> PHONE: <u>(714) 765-4536/(714) 478-1</u> EMAIL: _____ ADDRESS: <u>1071 E. MIRALOMA AVE, ANAHEIM, CA 92806</u> Project Name: <u>Permit 52-2-758 Semi-Annual</u> Sampled By: <u>V Padilla</u> <small>(SIGNATURE)</small>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">TSS</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Field pH</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				TDS	TSS	BOD	Field pH													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Field Data Testing Results (if applicable)</td> </tr> <tr> <td>1. Sampler Start Date & Time: _____ AM/PM</td> <td></td> </tr> <tr> <td>Sampler End Date & Time: _____ AM/PM</td> <td></td> </tr> <tr> <td>2. Day 1: Meter Read Date & Time: _____ AM/PM</td> <td></td> </tr> <tr> <td>Day 2: Meter Read Date & Time: _____ AM/PM</td> <td></td> </tr> <tr> <td>Start (C.F. or Gal)</td> <td>Stop (C.F. or Gal)</td> </tr> <tr> <td>1. _____</td> <td>1. _____</td> </tr> <tr> <td>2. _____</td> <td>2. _____</td> </tr> <tr> <td>3. _____</td> <td>3. _____</td> </tr> <tr> <td>4. _____</td> <td>4. _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total Flow: _____</td> </tr> </table>				Field Data Testing Results (if applicable)		1. Sampler Start Date & Time: _____ AM/PM		Sampler End Date & Time: _____ AM/PM		2. Day 1: Meter Read Date & Time: _____ AM/PM		Day 2: Meter Read Date & Time: _____ AM/PM		Start (C.F. or Gal)	Stop (C.F. or Gal)	1. _____	1. _____	2. _____	2. _____	3. _____	3. _____	4. _____	4. _____	Total Flow: _____	
TDS	TSS	BOD	Field pH																																														
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Start (C.F. or Gal)	Stop (C.F. or Gal)																																																
1. _____	1. _____																																																
2. _____	2. _____																																																
3. _____	3. _____																																																
4. _____	4. _____																																																
Total Flow: _____																																																	
NUMBER OF CONTAINERS																																																	
Free Cl ₂	Total Cl ₂	Field pH (Grab)	Temp. °C (Grab)																																														
		8																																															

Chain of Custody Signature Record	Instructions/Comments	TOTAL NUMBER OF CONTAINERS
1. Relinquished by Signature: <u>V Padilla</u> Company/ Agency: <u>ALS</u> Date/ Time: <u>04-16-25 15:54</u> 2. Received by Signature: <u>Ronald Hoffard</u> Company/ Agency: <u>ALS</u> Date/ Time: <u>4-16-25 15:59</u> 3. Relinquished by Signature: _____ Company/ Agency: _____ Date/ Time: _____ 4. Received by Signature: _____ Company/ Agency: _____ Date/ Time: _____ 5. Relinquished by Signature: _____ Company/ Agency: _____ Date/ Time: _____ 6. Received by Signature: _____ Company/ Agency: _____ Date/ Time: _____	Bill/Ship To: Southern California Public Power Authority	Sample Conditions Upon Receipt (For Internal Use Only): Temp. (°C): <u>2.4°C</u> COC received and signed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Letter (if sent) matches COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Requested Analyses acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Samples received in a chilled condition? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Samples intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Custody seals (if any) intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Analyses within hold time? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

TX Result Report

P 1
 10/30/2025 08:46
 Serial No. A79J012000004
 TC: 890161

Addressee	Start Time	Time	Prints	Result	Note
OC San	10-30 08:44	00:01:52	007/007	OK	

Note TMR:Timer TX, POL:Polling, ORG:Original Size Setting, FME:Frame Erase TX, DPB:Page Separation TX, MIX:Mix of Original TX, CALL:Manual TX, CSRC:CSRC, FWD:Forward, PC:PC-FAX, SBD:Double-Sided Binding Direction, SP:Special Original, FCODE:F-code, RTX:Re-TX, RLV:Relay, MBX:Confidential, BUL:Bulletin, SIP:SIP Fax, IPADR:IP Address Fax, I-FAX:Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF, TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer, REF: Receipt Refused, Busy: Busy, W-Full:Memory Full, LOVR:Receiving length over, PWR:Receiving page over, FIL:File Error, DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error, PRINT:Compulsory Memory Document Print, DEL:Compulsory Memory Document Delete, SEND:Compulsory Memory Document send.



CITY OF ANAHEIM
PUBLIC UTILITIES DEPARTMENT
 Environmental Services
 Letter of Transmittal

To:	Mr. Brian Finkelstein Orange County Sanitation District Resource Protection Division 10844 Ellis Avenue Fountain Valley, CA 92708-7018	Date:	10/30/2025
		Project:	Canyon Power Plant 3071 E. Miraloma Ave. Anaheim, CA 92806
		Subject:	Semi-Annual Self-Monitoring SMR # S-190689

We are sending you:

Copy of Original	Description
1	Completed Semi-Annual Form OCSD Self-Monitoring Form for City of Anaheim Canyon Power Plant (Permit No. 1-600296).

These are transmitted:

<input checked="" type="checkbox"/> 1	As requested	<input type="checkbox"/>	For your action	<input type="checkbox"/>	For your files
<input type="checkbox"/>	For approval	<input type="checkbox"/>	For your review	<input type="checkbox"/>	For your information

Via: US Mail FAX # 7 of pgs. Hand Delivery
 (714) 378-1277

Remarks: Please contact me at (714) 765-7481 or bernanandez@anaheim.net if you have any questions regarding this submittal.

By: *Bertha*
 Bertha A. Hernandez, Environmental Services Specialist



CITY OF ANAHEIM
PUBLIC UTILITIES DEPARTMENT
Environmental Services
Letter of Transmittal

To:	Mr. Brian Finkelstein Orange County Sanitation District Resource Protection Division 10844 Ellis Avenue Fountain Valley, CA 92708-7018	Date:	10/30/2025
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Via: US Mail FAX # 7 of pgs. Hand Delivery
(714) 378-1277

Remarks:

Please contact me at (714) 765-7481 or bhernandez@anaheim.net if you have any questions regarding this submittal.

By:  Bertha A Hernandez, Environmental Services Specialist



ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM

September 15, 2025

Bertha Hernandez, Environmental Services Specialist
City of Anaheim, Public Utilities Department (CPP)
201 S. Anaheim Blvd., MS #802
Anaheim, CA 92805

Subject: **REMINDER TO CONDUCT SELF-MONITORING**
Permit No. 1-600296

Please be reminded that Self-Monitoring must be conducted between **October 01, 2025 -- October 16, 2025** in accordance with your company's permit requirements. Self-Monitoring must be conducted during a production day in accordance with the guidelines detailed in your company's permit.

It is your responsibility to comply with the requirements set forth in your company's permit. Failure to comply with all the directives, conditions, and requirements of the permit may result in enforcement action against your company.

If your company's permit shows a self-monitoring requirement for total toxic organics (TTOs) and your company has received a waiver from this self-monitoring, you are now required to submit a signed TTOs SMR form to us to comply with the TTO waiver requirements of the U.S. Environmental Protection Agency. Please indicate in the "Sample Comments" that you have received a TTOs self-monitoring waiver from us.

For permittees that have monthly as well as quarterly and/or semi-annual self-monitoring requirements, the forms may list more than the SMR constituents required for the monthly self-monitoring. We ask that you adhere to your permit's self-monitoring requirements and sample only for the constituent(s) required on a monthly basis except when the quarterly and semi-annual self-monitoring are also required in the same month in which case all constituents listed on the form must be analyzed for as specified in your permit.

Finally, for those who are required to submit meter readings, a list of the meter readings submitted within the last year is attached to the SMR form for your reference and comparison to current readings.

Thank you for your patience and cooperation. If you have any questions, please contact Brian Finkelstein at 714-593-7452.

Brian Finkelstein
Senior Environmental Protection Engineer



**ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM**

SMR No.: S-212969

SMR Type: Standard

City of Anaheim, Public Utilities Department (CPP)

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

Sampling Dates: 10/01/2025 to 10/16/2025 Submit By Date: 10/31/2025
 Sample Start Date: 10/06/2025 Sample End Date: 10/07/2025
 Sample Start Time: 10:24 AM Sample End Time: 10:24 AM
 Sampling Point Location: Sump located near the aqueous ammonia storage tank in the center of the site

Contact Person: BERTHA A HERNANDEZ Contact Phone: 714 765 4243
 Contact Email: BHERNANDEZ@ANAHEIM.NET

No Discharge

Water Meter Readings: (If this is a batch discharge, enter volume only)

Location	Meter Type	Meter ID	Stop Reading	Start Reading	Volume	Units	Digits	Int
Center of site adjacent to the sample vault	Effluent Flow Meter	EM_1_60029 6	NOT RECORDED SEE COMMENT	→		G	9	

Composite

Sample Results: (If constituent is not detected or is less than detection limit, enter as reported in the lab results.)

Constituent	Result	Units	EPA
			Method
BOD T	ND	mg/L	SM5210B
TSS	ND	mg/L	SM2540D

Sample Comments: — During the 24-hour composite sampling conducted at Canyon Power Plant from October 6 to 7, 2025, flow meter readings were missed at the start and end of the testing period. The error was identified as an oversight by the new lab company performing the work and Canyon Power Plant. To rectify this, Canyon Power Plant has provided a copy of the Self-Monitoring Form to the lab representative, discussed it with Power Plant staff and has communicated the correct data collection procedures to all lab field technicians for future tests.

BAH

Please note that OC San's fax number has changed. Please use the new fax number (714) 378-1277 effective immediately if submitting completed form by fax.

To Submit Data - Fax: (714) 378-1277 or
 Mail: Orange County Sanitation District, Resource Protection Division, 18480 Bandilier Circle, Fountain Valley, CA, 92708



Questions: Contact Samantha Colins at 714-593-7125

BAH

Bertha Hernandez, please initial each page and submit all pages



ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM

SMR No.: S-212969

SMR Type: Standard

City of Anaheim, Public Utilities Department (CPP)

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

This form must be completely filled out and Laboratory Analysis Report and Chain of Custody must be attached.

Please check if composite sample was obtained using an automatic sampling device: () Yes () No

This form must be signed by the Responsible Officer or Designated Signatory :

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.[40 C.F.R. § 403.6(a)(2)(ii) (2005)]

Signature (Bertha Hernandez)

Title (Environmental Services Specialist)

10/30/2025

Date

BERTHA A. HERNANDEZ

Print Name

To Submit Data - Fax: (714) 378-1277 or
Mail: Orange County Sanitation District, Resource
Protection Division, 18480 Bandilier Circle,
Fountain Valley, CA, 92708

Questions: Contact Samantha Colins at
714-593-7125

Bertha Hernandez, please initial each page and submit all pages



**ORANGE COUNTY SANITATION DISTRICT
SELF-MONITORING FORM**

SMR No.: S-212969

SMR Type: Standard

City of Anaheim, Public Utilities Department (CPP)

General Pretreatment Regulations For Existing And New Sources Of Pollution

Permit No. 1-600296

Sample Location: Compliance

<u>Meter Type</u>	<u>Equipment</u>		<u>Event ID</u>	<u>Start - End Date</u>	<u>End</u>	<u>Reading</u>		<u>Vol</u>	
	<u>Name</u>					<u>Start</u>			
EFFLUENT	EM_1_600296		190690	4/15/2025 - 4/16/2025	121566091 Gallon	121562555 Gallon	3536	GPD	
EFFLUENT	EM_1_600296		190689	10/7/2024 - 10/8/2024	120121870 Gallon	120083106 Gallon	38764	GPD	

To Submit Data - Fax: (714) 378-1277 or
Mail: Orange County Sanitation District, Resource
 Protection Division, 18480 Bandilier Circle,
 Fountain Valley, CA, 92708

Questions: Contact Samantha Colins at
 714-593-7125

Bertha Hernandez, please initial each page and submit all pages



JK BioScience Environmental Laboratories

Our Quality Service Becomes Your Business Success

- Consulting and Research
- Analytical Laboratories

CERTIFICATE OF ANALYSIS

CLIENT: City of Anaheim, Public Utilities Department (CPP)
 9071 E. Miraloma Ave.
 Anaheim, CA 92806

REPORTING DATE: 10/29/2025
 SAMPLE RECEIVED: 10/07/2025
LABORATORY NO.: 25-2808T
 DATE SAMPLED : 10/06-07/25
 CA STATE ELAP NO.: 2968
 LACSD LAB I.D. NO.: 9249178
 INVESTIGATION: SEE BELOW
 PAGE: 1 OF 1

CLIENT PROJECT NAME/NO.: Industrial Wastewater Sampling & Testing
 PROJECT CONT. PERSON: Charlie Vo
 Sampling Start Time: 10/06/25 10:24 AM
 Sampling End Time: 10/07/25 10:24 AM
 MATRIX: Wastewater

Lab I.D.	Parameter	Result	Units	QF	RL	MDL	Method	Analyzed
25-2808T-1	Biochemical Oxygen Demand	ND	mg/L		15.8		SM5210B	10/08-13/25
25-2808T-2	Total Suspended Solids	ND	mg/L		5.00		SM2540D	10/09/25

RL: Reporting Limit; MDL: Method Detection Limit; QF: Qualifier
 ND: Parameter not detected at the indicated reporting limit

Note: All results contained in the above report relate only to the items tested.
 All samples received in satisfactory condition unless noted otherwise.
 For Questions or Comments Contact: Jina R. Kim, 213-292-6474 or jkim@jkbios.com

Approval By: Jina R. Kim, Laboratory Director

Signature: _____

OC Sanitation District

**No Violations or Corrective Actions
To report for CY 2025**

CANYON POWER PLANT

ANNUAL COMPLIANCE REPORT

ATTACHMENT 14

VIS-4

**SURFACE TREATMENT OF PROJECT
STRUCTURES AND BUILDINGS**

CANYON POWER PLANT

ANNUAL COMPLIANCE REPORT

ATTACHMENT 14

VIS-4

SURFACE TREATMENT OF PROJECT STRUCTURES AND BUILDINGS

VIS-4: Surface Treatment of Project Structures and Buildings

Condition of Certification VIS-4 requires a status report on the surface treatment maintenance for the structures and buildings in the Annual Compliance Report. The report shall specify the following:

1. The condition of surfaces of all structures and buildings at the end of the reporting year 2025:

- a. Butler Building (Administrative and Warehouse)
- b. Main Electrical Enclosure (MEE)
- c. Balance of Plan (BOPEE)
- d. Substation Building
- e. Chiller
- f. RO Skid (open wall with roof sheet metal covering)
 - i. The exterior building material is fabricated sheet metal. The colors and finishes do not create excessive glare and are consistent with local policies and ordinances. All structures and buildings visual inspection showed no trouble items, and all are in good working order.
- g. Gas Turbines (4 identical units)

2. Maintenance activities that occurred in CY 2025:

- a. May Planned Outage
 - i. Semi-annual maintenance performed
- b. December Planned Outage
 - i. Semi-annual maintenance performed

3. Schedule maintenance activities for CY 2026:

- a. April/May 2026 Planned Outage
 - i. Semi-annual maintenance
- b. December 2026 Planned Outage
 - i. Semi-annual maintenance

Status report regarding condition of Structures and Buildings

The photographs (1/13/26) show the surface treatment of project structures and buildings. All buildings comply with condition VIS-4.



Warehouse Building



Administrative Building



Main Electrical Enclosure Building



Substation Building



Chiller Building



RO Skid Structure



Balance of Plant Building



LM 6000 Turbines

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 15
LANDSCAPE SCREENING

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT

ATTACHMENT 15

LANDSCAPE SCREENING

VIS-5: Landscape Screening

Condition of Certification VIS-5 requires a status report in the Annual Compliance Report regarding landscape maintenance activities. At the Canyon Power Plant the landscape maintenance activities were performed according to the contract and consistent with policies and requirements of the City of Anaheim plan and zoning ordinance.

The contracted company performed the following landscape maintenance activities:

Contracted Landscape Services – Landscape West Mgmt. Service, Inc. (Period: Jan 1, through December 31, 2025).

Activity Type	Frequency
<u>Weed Control</u> Landscape areas Hardscape areas Gravel areas	2x/wk. 1x/Mo
<u>Fertilization</u> Shrubs Ground cover Trees	2x/year
<u>Pest Control</u> Rodents	As needed
<u>Irrigation Maintenance</u> Inspect all Sprinklers/Systems	As needed
<u>Trees</u> Canopy Trees	As needed
<u>Maintenance/Clean-Up</u> Ground Cover and Shrubs Trash & Litter at Landscape area Trash & Litter at enclosed gravel areas Monthly Inspection	2x/wk.

The photographs below taken by staff on 1/13/2026 of the landscape maintenance demonstrating compliance pursuant VIS-5 condition:

Landscaping - Exterior Plants



Miraloma Avenue, south wall



East wall ivy

Landscaping - Interior Plants



Administration Building Planter



Admin and Warehouse Building Planter

Warehouse Planter



CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 16
AQ-9
NH3 SLIP TESTING

**TEST REPORT FOR
THIRD QUARTER 2025 AMMONIA SLIP TEST AT
CANYON POWER PLANT – UNIT 2
FACILITY ID: 153992, DEVICE ID: D7**

Prepared For:

Southern California Public Power Authority
3071 E. Mira Loma Avenue
Anaheim, California 92806

For Submittal To:

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765-4178

Prepared By:

Montrose Air Quality Services, LLC
1631 E. St. Andrew Pl.
Santa Ana, California 92705
(714) 279-6777

Patrick Whitman

Test Date: **September 9, 2025**
Production Date: **September 30, 2025**
Report Number: **W002AS-056488-RT-7709**



CONFIDENTIALITY STATEMENT

Except as otherwise required by law or regulation, this information contained in this communication is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that is proprietary, privileged or confidential or otherwise legally exempt from disclosure. If you are not the named addressee, you are not authorized to read, print, retain, copy, or disseminate this message or any part of it.

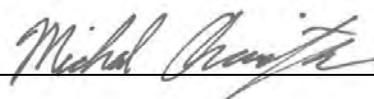
REVIEW AND CERTIFICATION

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: 9/30/2025

Name: Patrick Whitman 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: 9/30/202

Name: Michael Chowsanitphon Title: Reporting Hub Manager

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by the Canyon Power Plant to perform an ammonia slip test at Unit 2 as required by the facility Permit (Facility ID 153992) Condition Number D29.2. This report documents the results of the ammonia slip tests performed on September 9, 2025. The test was performed by Patrick Whitman, Jason Sering, Jorge Contreras, and Danny Avila of MAQS. Patrick Whitman was the on-site Qualified Individual for MAQS. MAQS qualifies as an independent testing laboratory under SCAQMD Rule 304 (no conflict of interest) and is certified by the SCAQMD to conduct testing for criteria pollutants according to District Methods. Bertha Hernandez coordinated the test for Canyon Power Plant.

The test consisted of duplicate ammonia tests performed at 48.8 MW. The test program followed the procedures described in the initial compliance test protocol (MAQS document R038842). The results of the test are summarized in Table 1-1. The table shows that the ammonia slip from this unit was less than the permitted limit of 5 ppm corrected to 15% O₂.

**TABLE 1-1
AMMONIA SLIP TEST RESULTS SUMMARY
SCPPA – CANYON POWER PLANT
UNIT 2
SEPTEMBER 9, 2025**

Parameter/Units	Result ⁽¹⁾	Limit
NH₃		
ppm	1.5	--
ppm @ 15% O ₂	1.4	5

(1) Maximum of duplicate runs, as required by SCAQMD Method 207.1.

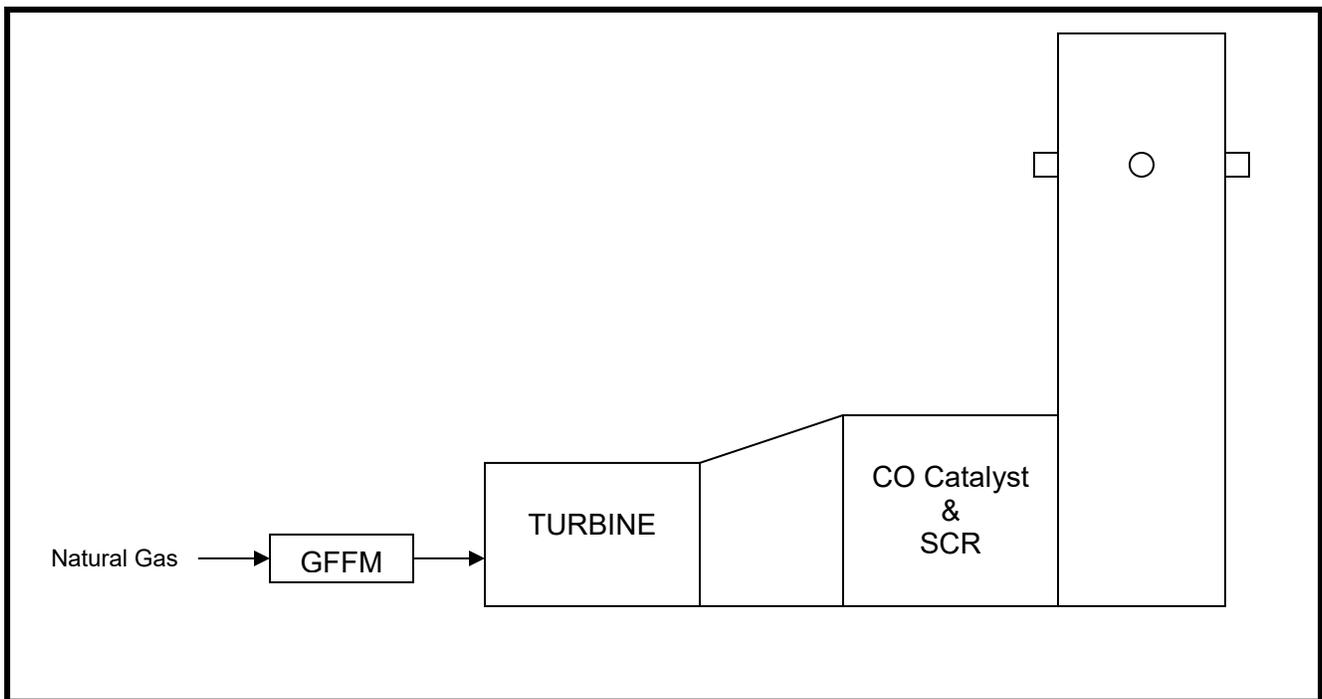
Section 2 of this document provides a brief description of the unit, test conditions, sample location, and CEMS. Details of the test procedures are provided in Section 3. Section 4 provides the results of each individual test. All raw data, calculations, quality assurance data, unit operating conditions, and CEMS data are provided in the appendices.

2.0 UNIT AND CEMS DESCRIPTION

2.1 UNIT DESCRIPTION

The City of Anaheim Canyon Power Plant is located at 3071 E. Mira Loma Avenue, Anaheim, California 92806. The facility consists of four identical generating units. Each unit consists of a natural gas fired, GE Model LM6000PC Sprint simple cycle, gas turbine. The units are natural gas fired with a rated heat input of 479 MMBtu per hour at 46°F, with water injection. The units are equipped with a CO catalyst and Selective Catalytic Reduction (SCR) system for CO and NO_x control respectively. A simplified process block diagram of the unit is presented as Figure 2-1.

FIGURE 2-1
SIMPLIFIED PROCESS BLOCK DIAGRAM
SCPPA – CANYON POWER PLANT
UNIT 2



Stack Inside Diameter:	11 feet, 8 inches
Distance from Upstream Disturbance:	23 feet, 4 inches (2.0 Diameters)
Distance from Stack Exit:	16 feet, 6 inches (1.4 Diameters)

2.2 CEMS DESCRIPTION

NO_x and CO emissions from the unit are monitored by a dry, extractive Continuous Emission Monitoring System (CEMS). Stack flow rate is determined from fuel flow rate, O₂ concentration, standard F-Factor, and fuel higher heating value using EPA Method 19.

2.3 TEST CONDITIONS

The tests were performed with the unit operating at an average load of 48.8 MW. Tests were performed while the unit was firing natural gas and operating under normal conditions. Unit operation was established by the Canyon Power Plant operators.

2.4 SAMPLE LOCATION

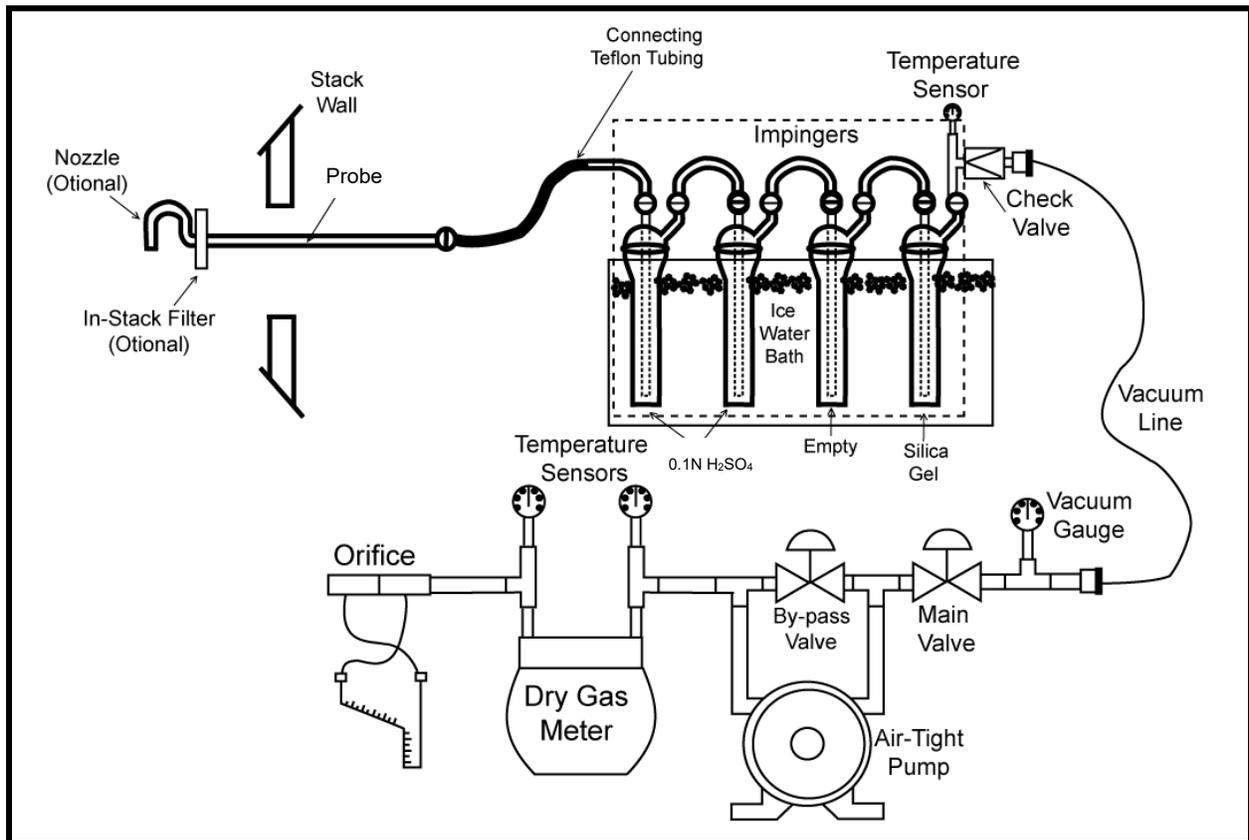
The measurements were made from sample ports located on the exhaust stack. There are four sample ports equally spaced at this location. The stack inside diameter at the sample plane is 11 feet, 8 inches. The sample ports are located 23 feet, 4 inches (2.0 diameters) downstream of the nearest flow disturbance and 16 feet, 6 inches (1.4 diameters) from the stack exit. A diagram of the stack sample location and traverse points is presented in Appendix A.1.

3.0 TEST DESCRIPTION

Flue gas samples were collected non-isokinetically using a SCAQMD Method 207.1 sample train. The samples were collected using a 12-point traverse at the exhaust stack location. Each test was performed over a 60 minute interval. The sample gas was drawn through a titanium probe, Teflon sample line, two impingers each containing 100 ml of 0.1N H₂SO₄, an empty impinger, an impinger containing silica gel, and a dry gas meter. The optional nozzle and filter were not used since the source is natural gas fired. The contents of the sample line and the first three impingers were recovered and analyzed by SCAQMD Method 207.1 for ammonia concentration by Ion Specific Electrode analysis. A diagram of the sampling equipment is presented as Figure 3-1.

Stack O₂ and NO_x concentrations, and stack volumetric flow rate data were recorded from the Continuous Emission Monitoring System (CEMS) which is installed on the unit. These data were used to correct the ammonia concentration to 15% O₂ and to report the mass emission rates.

FIGURE 3-1
SCAQMD METHOD 207.1 SAMPLING EQUIPMENT



4.0 TEST RESULTS AND OVERVIEW

4.1 TEST RESULTS

The results of the test are summarized in Table 4-1. The results show that the ammonia slip was 1.4 ppm @ 15% O₂ which is less than the permitted limit of 5 ppm @ 15% O₂.

**TABLE 4-1
AMMONIA SLIP TEST RESULTS
SCPPA – CANYON POWER PLANT
UNIT 2
SEPTEMBER 9, 2025**

Parameter/Units	1-NH ₃ -U2	2-NH ₃ -U2	Average	Maximum ⁽¹⁾	Limit
Start/Stop Time	1729/1832	1912/2015	--	--	--
Stack Flow , dscfm @ T _{ref} ⁽²⁾	234,689	235,083	234,886	--	--
O₂ , % ⁽²⁾	14.48	14.50	14.49	--	--
NO_x , ppm @ 15% O ₂ ⁽²⁾	2.2	2.4	2.3	--	2.5
NH₃					
ppm	1.5	1.4	1.4	1.5	--
ppm @ 15% O ₂	1.4	1.3	1.3	1.4	5
lb/hr	0.9	0.9	0.9	0.9	--
lb/MMBtu	0.002	0.002	0.002	0.002	--
lb/MMSCF	1.9	1.8	1.9	1.9	--

(1) Maximum of duplicate test runs, as required by SCAQMD Method 207.1.

(2) From facility CEMS.

4.2 TEST OVERVIEW

The test program was successful in meeting the program objectives. The sample train was leak checked before and after the test and all QA/QC requirements of SCAQMD Method 207.1 were satisfied.

APPENDIX A TEST DATA

Appendix A.1

SCAQMD Method 1.1 Data

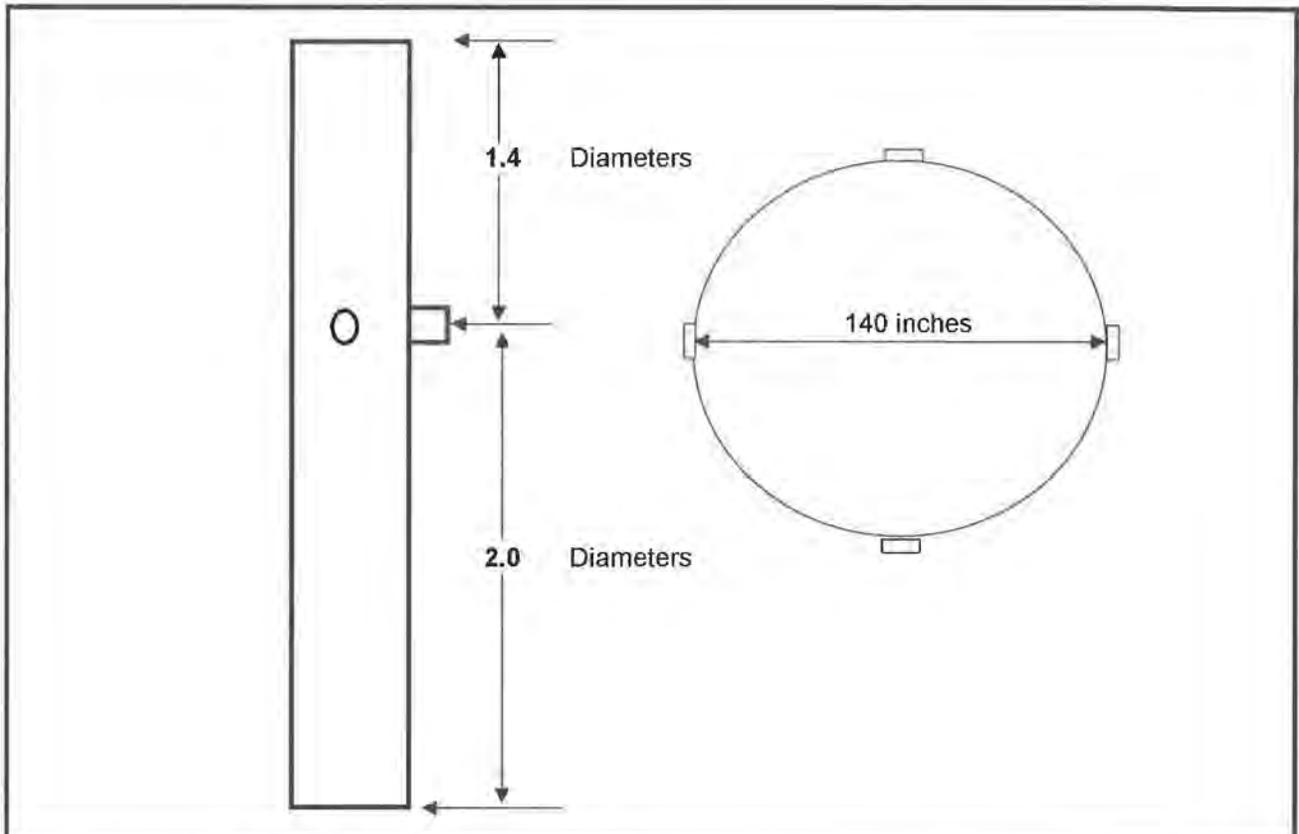
METHOD 1 DATA SHEET SAMPLE LOCATION

Client: SCPPA

Date: 9/9/25

Sample Location: U2

Performed By: PW



Diameter (in.)	<u>140.00</u>
Upstream (ft.)	<u>23.33</u>
Downstream (ft.)	<u>16.50</u>
Coupling (in.)	<u>11.25</u>
Stack Area (ft ²)	<u>106.90</u>

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	6.1	17.3
2	14.6	20.5	31.8
3	29.6	41.4	52.7
4	70.4	98.6	109.8
5	85.4	119.5	130.7
6	95.6	133.9	145.2

Appendix A.2

Sample Data Sheets

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WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #2 Stack
 DATE: 9/9/2025
 RUN NO: 1-NH3
 OPERATOR: Danny Avila
 METER BOX NO: 50-WCS
 METER Yd: 0.995 ✓
 CEMS Heated Line Temp: 298
 CEMS Knock Out Temp: 0.5
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 73
 BAROMETRIC PRESSURE: 29.61 ✓
 ASSUMED MOISTURE : 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 12'
 PRE-TEST LEAK RATE : 0.006 CFM@ 10" in. Hg
 POST-TEST LEAK RATE : 0.004 CFM@ 12" in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	963.5	760.6	202.9	<2
2	0.1 N H ₂ SO ₄	736.8	736.1	0.7	<2
3	Empty	638.1	838.0	0.1	
4	Silica Gel	938.2	925.7	9.5	
LR :		100mL		-100	
Total:				113.2	

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3	1729	423.643	N/A	1.8	N/A	N/A	N/A	54	N/A	79	4"	N/A
2	1734	427.219						54		79		
1	1739	430.438						54		79		
P.C.	1744	434.591										
3	1745	434.591						54		79		
2	1750	438.216						54		79		
1	1755	441.866						55		79		
P.C.	1800	445.539										
3	1801	445.539						55		79		
2	1806	449.172						55		78		
1	1811	452.848						54		78		
P.C.	1816	456.551										
3	1817	456.551						54		78		
2	1822	460.181						54		77		
1	1827	463.817						54		77		
END	1832	467.485										
Average:		43.842		1.8						78.4		

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

W002AS-056488-RT-7710

CLIENT: SCPPA
 LOCATION: Canyon Unit #2 Stack
 DATE: 9/9/2025
 RUN NO: 2 -NH3
 OPERATOR: Danny Avila
 METER BOX NO: 50-WCS
 METER Yd: 0.995 ✓
 CEMS Heated Line Temp: 298
 CEMS Knock Out Temp: 0.5
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 72[~]
 BAROMETRIC PRESSURE: 29.61 ✓
 ASSUMED MOISTURE: 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 12'
 PRE-TEST LEAK RATE: 0.006 CFM@ 10" in. Hg
 POST-TEST LEAK RATE: 0.003 CFM@ 12" in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	949.1	746.5	202.6	4.2
2	0.1 N H ₂ SO ₄	735.7	732.9	2.8	4.2
3	Empty	629.4	628.9	0.5	
4	Silica Gel	965.6	957.6	8.0	
LR			100mL	-100	
Total:				173.9	

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Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg	Pstatic in. H ₂ O
3	1912	469.401	N/A	1.8	N/A	N/A	N/A	53	N/A	75	4"	N/A
2	1917	473.023						53		74		
1	1922	476.645						53		74		
P.C.	1927	480.366						53		74		
3	1928	480.366						53		74		
2	1933	483.975						54		74		
1	1938	487.695						54		75		
P.C.	1943	491.432						54		75		
3	1944	491.432						54		75		
2	1949	495.253						54		74		
1	1954	498.919						54		73		
P.C.	1959	503.246						54		73		
3	2000	503.246						54		73		
2	2005	506.352						55		73		
1	2010	510.099						55		73		
END	2015	513.864										
Average:		461.463		1.9						73.9		

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #2 Stack
 DATE: 9/9/2025
 RUN NO: FB -NH3
 OPERATOR: Danny Avila
 METER BOX NO: 50-WCS
 METER Yd: 0.995
 CEMS Heated Line Temp: 286°F
 CEMS Knock Out Temp: 0.2
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 86°F
 BAROMETRIC PRESSURE: 29.61
 ASSUMED MOISTURE: 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 12'
 PRE-TEST LEAK RATE: 20.005 CFM@ 10 in. Hg
 POST-TEST LEAK RATE: 20.005 CFM@ 12 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	- Pre-Test = Difference	pH
1	0.1 N H ₂ SO ₄	836.3	736.2	~2
2	0.1 N H ₂ SO ₄	743.1	742.6	~2
3	Empty	637.2	637.1	
4	Silica Gel	882.4	882.4	
LR			100mL	
Total:				

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp, Out Temp, °F	Meter Temp, °F In Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3			N/A		N/A	N/A	N/A		N/A		N/A
2											
1											
P.C.											
3											
2											
1											
P.C.											
3											
2											
1											
P.C.											
3											
2											
1											
END											
Average:											

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

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Appendix A.3 Laboratory Data

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS DATA



District Method: SCAQMD 207.1

Project Number: Prj-056488
 Client/Location: SCPPA
 Sample Location: UNIT-2
 Sample Date: 9-9-25
 Analysis Date: 9-9-25

Calibration Curve: $Y = 57.3693x + 105.3193$
 R^2 : 1.0000
 Thermometer #: #4
 ISE Electrode #: #102
 Analyst's Initials: JS

NH ₃ concentration (µg NH ₃ -N/ml)	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	105.4	21.5	22.1
5	65.3	21.5	
20	30.3	21.5	
100	-9.2	21.5	

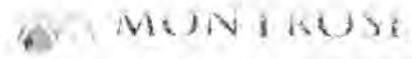
Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Blue after ISA (Y/N)	pH
Standard Check: 28 µg NH ₃ -N/ml	NA	21.6	22.3	Y	NA
		21.6	22.2	Y	
1-NH ₃	1,000.0	23.5	103.8	Y	< 2
		23.5	105.0	Y	
2-NH ₃	1,000.0	21.5	107.8	Y	< 2
		21.5	108.3	Y	
Spike: 1-NH ₃	NA	23.5	32.7	Y	NA
		23.5	32.4	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	22.4	23.6	Y	NA
		22.4	23.5	Y	
Reagent Blank 0.1N H ₂ SO ₄	NA	21.8	156.2	Y	NA
		21.8	155.8	Y	
DI H ₂ O Blank	NA	21.6	136.3	Y	NA
		21.7	135.9	Y	
Field Blank	506.0	21.5	128.2	Y	< 2
		21.5	129.1	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	22.3	23.7	Y	NA
		22.4	23.5	Y	

Notes:

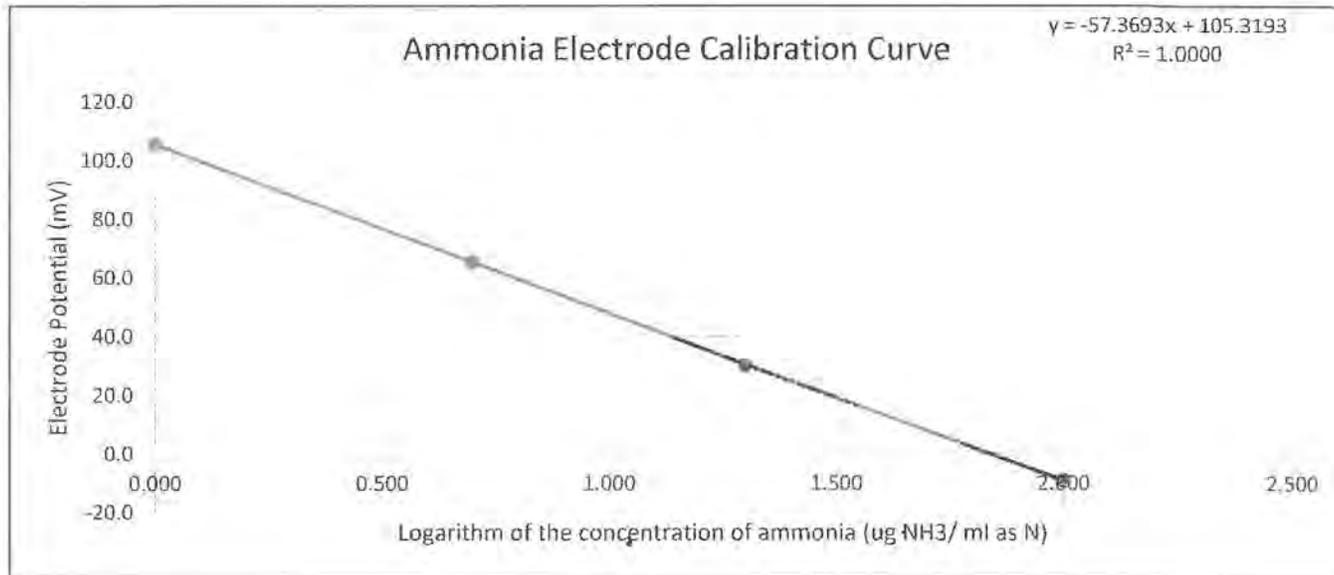
- Used 100 ml of samples or standards with 2 ml ISA and constant stirring rate.
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- All calibration solution and calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
- All solutions turned blue and remained blue with ISA unless otherwise indicated.
- Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
- All samples must have a pH of less than 2.
- Sample solutions, calibration solution and C.V. standard temperature must be within ± 2°C of one another.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.

AMMONIA ELECTRODE CALIBRATION CURVE DATA

District Method: SCAQMD 207.1

Date: September 9, 2025Project Number: Proj-056488Client/Location: SCPPA

NH ₃ concentration (µg NH ₃ -N/ml)	Log NH ₃ concentration	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	0.000	105.4	21.5	22.1
5	0.699	65.3	21.5	
20	1.301	30.3	21.5	
100	2.000	-9.2	21.5	



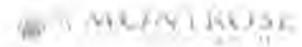
Slope	Y-Intercept	R ²
-57.3693	105.3193	1.0000

NH ₃ concentration (µg NH ₃ -N/ml)	Value LR line	Difference	% Difference
1	0.9968	-0.0032	-0.3235
5	4.9839	-0.0161	-0.3211
20	20.3075	0.3075	1.5374
100	99.1238	-0.8762	-0.8762

Notes:

- Regression Line: $P = M \cdot \log(\text{ug of NH}_3/\text{ ml as N}) + B$.
- Measured Concentration of Ammonia (C) in ug NH₃ as N/ml : $C = 10^{(P-B)/M}$ where P = electrode potential, M= slope and B= intercept.
- All standards are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.
- Calibration solution temperature must be within ± 2°C.

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS CALCULATION DATA



District Method: SCAQMD 207.1

Project Number: Proj-056488
 Client/Location: SCPPA
 Sample Location: Unit-2
 Sample Date: 9/9/2025
 Analysis Date: 9/9/2025
 Analyst's Initials: JS

Calibration Curve Slope: -57.3693
 Y-intercept: 105.3193
 R²: 1.0000
 Thermometer #: #4
 ISE Electrode #: #102

Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Conc. µg NH ₃ -N/ml	C _{avg} as N	C _{avg} as NH ₃	µg NH ₃ /sample	Result µg NH ₃ /sample*
Standard Check: 28 µg NH ₃ -N/ml	NA	21.6	22.3	27.996	28.053	34.100	NA	NA
		21.6	22.2	28.109				
1-NH ₃	1,000	23.5	103.8	1.063	1.038	1.262	1,261.613	1,261.613
		23.5	105.0	1.013				
2-NH ₃	1,000	21.5	107.8	0.905	0.896	1.089	1,089.430	< 1,215.560
		21.5	108.3	0.887				
Spike 1-NH ₃	NA	23.5	32.7	18.443	18.554	22.554	NA	NA
		23.5	32.4	18.666				
Standard Check: 28 µg NH ₃ -N/ml	NA	22.4	23.6	26.573	26.627	32.366	NA	NA
		22.4	23.5	26.680				
Reagent Blank 0.1N H ₂ SO ₄	NA	21.8	156.2	0.130	0.131	0.159	NA	NA
		21.8	155.8	0.132				
DI H ₂ O Blank	NA	21.6	136.3	0.288	0.291	0.353	NA	NA
		21.7	135.9	0.293				
Field Blank	500	21.5	128.2	0.399	0.392	0.477	238.309	NA
		21.5	129.1	0.385				
Standard Check: 28 µg NH ₃ -N/ml	NA	22.3	23.7	26.467	26.573	32.302	NA	NA
		22.4	23.5	26.680				

Notes:

- Measured Concentration of Ammonia (C) in µg NH₃-N/ml.
 - $C = 10^{(P-B)/M}$, P = electrode potential (mV), M=slope and B=intercept.
 - Average Measured Ammonia Concentration (C_{avg}) = (C₁ + C₂)/2 where C₁, C₂ are results from duplicate analyses (µg NH₃/ml as N).
 - C_{avg} (µg NH₃-N/ml) = C_{avg} (µg NH₃-N/ml) * 17.03/14.01.
 - µg NH₃ / sample = C_{avg} (µg NH₃-N/ml) * TV.
 - Used 100 ml of samples and standards with 2 ml ISA and constant stirring rate, analyzed in duplicate.
 - Sample pH and temperatures can be found on the laboratory datasheet.
 - Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
 - All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
 - All calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
 - Sample solutions, blanks and C.V. Standard temperature must be within ± 2°C.
 - Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
 - Reporting Limit (RL) based on lowest concentration on calibration curve and Total Sample Volume.
 - * Result = greater of µg NH₃/sample or RL
- RL= 1(µg/mL)*TV(mL)*(17.03/14.01)
- RL (1-NH₃)= 1,215.56 µg NH₃/sample
- RL (2-NH₃)= 1,215.56 µg NH₃/sample

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS QUALITY CONTROL

District Method: SCAQMD 207.1

Project Number: Proj-056488
 Client/ Location: SCPPA
 Sample Location: Unit-2
 Sample Date: 9/9/2025
 Analysis Date: 9/9/2025
 Analyst's Initials: JS

Sample	Recovery (%)	RPD (%)	RPA (%)
Standard Check: 28 µg NH ₃ -N/ml	NA	-0.40	0.188
1-NH3	NA	4.82	NA
2-NH3	NA	2.01	NA
Spike 1-NH3	91.19	-1.20	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	-0.40	-4.905
Reagent Blank 0.1N H ₂ SO ₄	NA	-1.61	NA
DI H ₂ O Blank	NA	-1.61	NA
Field Blank	NA	3.61	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	-0.80	-5.095

Notes:

- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- Matrix Spike Percent Recovery (%R).
- %R = $(C_{\text{spike}} * 0.104 - C_{\text{sample}} * 0.102) / 2 * 100$.
- Cspike = average result of matrix spike (µg NH₃-N/ml).
- Relative Percent Difference (RPD) = $(C_1 - C_2) / C_{\text{avg}} * 100$ (**must be 5% or less**).
- Relative Percent Accuracy (RPA) (**must be 10% or less**).
- RPA = $(C_{\text{avg}} - \text{theoretical value of standard}) / \text{theoretical value of standard} * 100$.

Appendix A.4 QA/QC Data

Barometric Pressure Determination	
Date: <u>9/9/2025</u>	
Data By: <u>Patrick Whitman</u>	
Reference: https://forecast.weather.gov/MapClick.php?lon=-117.85962867946365&lat=33.863355545614255	
Reference Barometer ID	FW0063 Fullerton CSU (F0063)
Reference Barometer Location	Lat: 33.8805°N Lon: 117.88417°W Elev: 247ft.
Reference Barometer Other Info.	09 Sep 01:38 PM PDT
Reference Barometer Indication, corrected to sea	29.95
Reference Barometer Reference Elevation	247
Reference Barometer Actual Pressure	29.70
Test Barometer Location/Site	Canyon Power Plant
Location/Site Elevation	279
Location/Site Barometric Pressure	29.67
Sampling Location Height (above/below site elevation)	60
Sampling Location Barometric Pressure	29.61

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Model #: C-5000 Source Sampler
 ID #: 50-WCS
 Date: 9/3/2025
 Bar. Pressure: 29.85 (in. Hg)
 Performed By: D. Avila
 Reviewed By: S. Adhikari

DRY GAS METER READINGS							CRITICAL ORIFICE READINGS				Ambient Temperature		
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Initial Temps. Inlet (deg F)	Final Temps. Outlet (deg F)	Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Final (deg F)	Average (deg F)	
0.13	26.00	315.434	320.742	5.308	87.0	88.0	AA-33	0.1542	18.0	85.0	85.0	85.0	
0.13	26.00	320.742	326.053	5.311	88.0	88.0	AA-33	0.1542	18.0	85.0	87.0	86.0	
0.13	26.00	326.053	331.364	5.311	88.0	88.0	AA-33	0.1542	18.0	87.0	87.0	87.0	
0.66	12.00	298.257	303.726	5.469	85.0	86.0	QI-48	0.3426	17.0	84.0	84.0	84.0	
0.66	12.00	303.726	309.218	5.492	86.0	86.0	QI-48	0.3426	17.0	84.0	84.0	84.0	
0.66	12.00	309.218	314.699	5.481	86.0	85.0	QI-48	0.3426	17.0	84.0	84.0	84.0	
2.00	7.00	279.619	285.164	5.545	82.0	83.0	QI-63	0.5970	16.0	81.0	82.0	81.5	
2.00	7.00	285.164	290.707	5.543	83.0	83.0	QI-63	0.5970	16.0	82.0	83.0	82.5	
2.00	7.00	290.707	296.256	5.551	83.0	84.0	QI-63	0.5970	16.0	83.0	83.0	83.0	
3.70	5.00	260.539	265.849	5.310	79.0	80.0	AA-73	0.8071	15.0	80.0	80.0	80.0	
3.70	5.00	265.849	271.165	5.316	80.0	81.0	AA-73	0.8071	15.0	80.0	80.0	80.0	
3.70	5.00	271.165	276.462	5.297	81.0	82.0	AA-73	0.8071	15.0	80.0	81.0	80.5	

DRY GAS METER		ORIFICE			DRY GAS METER CALIBRATION FACTOR		ORIFICE CALIBRATION FACTOR		Individual Run	Individual Orifice	Orifice Average	Orifice Average
VOLUME CORRECTED Vm(std) (cu ft)	VOLUME CORRECTED Vm(std) (liters)	VOLUME CORRECTED Vcr(std) (cu ft)	VOLUME CORRECTED Vcr(std) (liters)	VOLUME NOMINAL Vcr (cu ft)	Y Value (number)	dH@ Value (in H2O)	0.95 < Y < 1.05?	Ymax - Ymin < 0.010?	0.96 < Y/Yd < 1.02?	dH@ - dH@ av < 0.155?		
5.107	144.6	5.128	145.2	5.306	1.004	1.810	Pass					
5.105	144.6	5.122	145.0	5.311	1.003	1.811	Pass					
5.105	144.6	5.117	144.9	5.316	1.002	1.815	Pass					
Average					1.003	1.812		Pass	Pass	Pass		
5.288	149.7	5.262	149.0	5.436	0.995	1.865	Pass					
5.305	150.2	5.262	149.0	5.436	0.992	1.863	Pass					
5.299	150.1	5.262	149.0	5.436	0.993	1.865	Pass					
Average					0.993	1.864		Pass	Pass	Pass		
5.409	153.2	5.361	151.8	5.513	0.991	1.863	Pass					
5.402	153.0	5.356	151.7	5.518	0.992	1.864	Pass					
5.404	153.1	5.353	151.6	5.520	0.991	1.864	Pass					
Average					0.991	1.864		Pass	Pass	Pass		
5.230	148.1	5.184	146.8	5.316	0.991	1.891	Pass					
5.226	148.0	5.184	146.8	5.316	0.992	1.887	Pass					
5.198	147.2	5.181	146.7	5.319	0.997	1.885	Pass					
Average					0.993	1.888		Pass	Pass	Pass		

Average Yd: 0.995 dH@: 1.857
 Q @ dH = 1: 0.550

Performed by signature: 

Reviewed by signature: 

Note: Control box not equipped with meter inlet temperature reading.

Date:

Date:

09/03/2025
 09/03/2025

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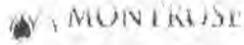
THERMOCOUPLE CALIBRATION

Thermocouple ID: 8
 Date: 7/2/2025
 Performed By: PR/PC

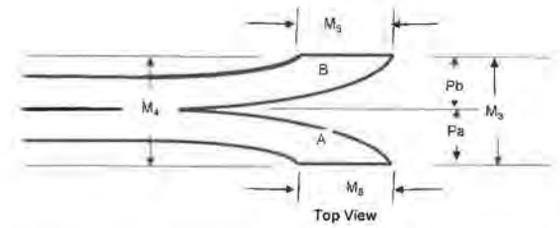
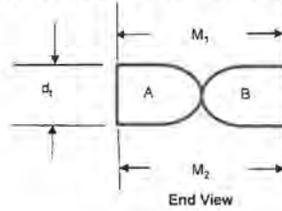
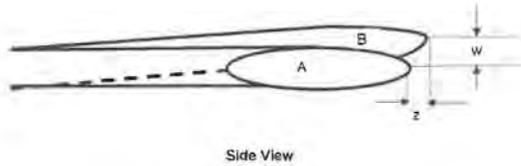
Calibrated Digital Temperature Readout ID: PTC-90
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D. 8	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	PTC-90	366	366	367	366	370	370	370	370	3.7	0.4%	Pass
T2 (~ 212 F)	PTC-90	214	215	212	214	212	212	212	212	1.7	0.2%	Pass
T1 (~ 32 F)	PTC-90	36	36	36	36	32	32	32	32	4.0	0.8%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

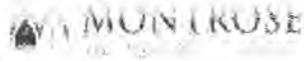


S Type Pitot Tube Dimensional Calibration Record



Acceptability Criteria			$z < 1/8''$	$w < 1/32''$	Yes	$3/16'' < Dt < 3/8''$	n/a	n/a	n/a	n/a	n/a	n/a	10 degrees	5 degrees	$1.05 Dt < P < 1.5 Dt$	
Pitot ID	Date	Calibrated By	Side View, Impact openings Properly aligned, $z < 1/8''$	Side View, Impact openings Properly aligned, $w < 1/32''$	$P_a = P_b$	Tubing Diameter, dt	M1	M2	M3	M4	M5	M6	Average Face Opening Plane Angle, offset from perpendicular to transverse axis	Average Face Opening Plane Frontal Angle from parallel to Longitudinal Axis	Ratio of P/Dt	Status
008	7/2/25	JL/RC	Y	Y	Y	0.375	1.000	1.002	1.005	1.002	0.380	0.378	-0.2	0.2	1.3	Pass

Notes: Reference "A Type-S Pitot Tube Calibration Study", Robert F. Vollaro, October 15, 1975
 If tube is not visibly deformed it is assumed that $P_a = P_b = .5 \times$ avg. of M_1 & M_2 , and that average face opening plane angles represent individual angles to tube axis



THERMOCOUPLE CALIBRATION

Thermocouple ID: 164
 Date: 7/2/2025
 Performed By: PR/PC

Calibrated Digital Temperature Readout ID: PTC-90
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference			
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
164													
T3 (~ 370 F)	PTC-90	368	368	368	368	370	370	370	370	2.0	0.2%	Pass	
T2 (~ 212 F)	PTC-90	215	215	215	215	212	212	212	212	3.0	0.4%	Pass	
T1 (~ 32 F)	PTC-90	35	35	35	35	32	32	32	32	3.0	0.6%	Pass	

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)



DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 50-WCS
 Readout Description: Control box
 Date: 7/2/2025
 Performed By: PR/PC

Calibrated Thermocouple ID: TC-Cal
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference			
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
TC-Cal													
T3 (~370 F)	50-WCS	369	370	370	370	370	370	370	370	0.3	0.0%	Pass	
T2 (~212 F)	50-WCS	211	211	212	211	212	212	212	212	0.7	0.1%	Pass	
T1 (~32 F)	50-WCS	32	32	31	32	32	32	32	32	0.3	0.1%	Pass	

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Thermocouple Source Readings

T/C Source S/N	T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T4 (~650 F)	129462	650	650	650	650	650	650	650	650	0.0	0.0%	Pass
T3 (~370 F)	129462	367	367	367	367	370	370	370	370	3.0	0.4%	Pass
T2 (~212 F)	129462	210	210	210	210	212	212	212	212	2.0	0.3%	Pass
T1 (~32 F)	129462	29	29	29	29	32	32	32	32	3.0	0.6%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

APPENDIX B FACILITY CEMS DATA

Average Values Report
Generated: 9/9/2025 19:16

1-NH₃

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.,
City/St: Anaheim, CA, 92806
Source: 2

Period Start: 9/9/2025 17:30
Period End: 9/9/2025 18:32
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

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Period Start:	Average 2_O2 %	Average 2_NOXPPM ppm	Average 2_NOX_CORR ppm	Average 2_NOX_LBHR #/hr	Average 2_NOX_LBMM #/MBTU	Average 2_GasFlow kscfh	Average 2_LOAD MW	Average 2_STACKFLW kscfm	Average 2_COPPM ppm	Average 2_CO_CORR ppm	Average 2_CO_LBHR #/hr
09/09/2025 17:30	14.48	2.27	2.09	4.03	0.008	480.2	48.83	238.3	3.89	3.57	4.03
09/09/2025 17:31	14.47	2.28	2.09	4.02	0.008	478.8	48.77	237.2	3.90	3.58	4.02
09/09/2025 17:32	14.48	2.27	2.09	4.04	0.008	480.7	48.92	238.5	3.94	3.62	4.09
09/09/2025 17:33	14.47	2.26	2.07	4.03	0.008	479.6	48.80	237.6	3.99	3.66	4.13
09/09/2025 17:34	14.49	2.25	2.07	4.02	0.008	479.0	48.73	238.1	4.03	3.71	4.17
09/09/2025 17:35	14.47	2.24	2.06	4.04	0.008	480.9	48.87	238.2	4.06	3.73	4.24
09/09/2025 17:36	14.49	2.22	2.04	4.02	0.008	478.5	48.71	237.8	4.07	3.75	4.22
09/09/2025 17:37	14.48	2.28	2.10	4.04	0.008	480.6	48.88	238.5	3.99	3.67	4.14
09/09/2025 17:38	14.47	2.36	2.17	4.04	0.008	480.6	48.87	238.1	3.88	3.56	4.04
09/09/2025 17:39	14.49	2.44	2.25	4.02	0.008	478.7	48.73	237.9	3.79	3.49	3.92
09/09/2025 17:40	14.47	2.45	2.25	4.04	0.008	481.4	48.90	238.5	3.78	3.47	3.94
09/09/2025 17:41	14.48	2.43	2.23	4.03	0.008	479.4	48.80	237.9	3.78	3.47	3.93
09/09/2025 17:42	14.48	2.44	2.24	4.03	0.008	480.1	48.83	238.2	3.79	3.48	3.93
09/09/2025 17:43	14.47	2.42	2.22	4.04	0.008	480.8	48.87	238.2	3.80	3.49	3.94
09/09/2025 17:44	14.48	2.43	2.23	4.03	0.008	479.3	48.78	237.9	3.82	3.51	3.98
09/09/2025 17:45	14.49	2.43	2.24	4.03	0.008	479.5	48.78	238.3	3.81	3.51	3.98
09/09/2025 17:46	14.47	2.40	2.20	4.04	0.008	481.3	48.89	238.5	3.81	3.50	3.94
09/09/2025 17:47	14.47	2.42	2.22	4.03	0.008	479.9	48.82	237.8	3.80	3.49	3.93
09/09/2025 17:48	14.49	2.44	2.25	4.03	0.008	480.0	48.80	238.6	3.80	3.50	3.93
09/09/2025 17:49	14.49	2.44	2.25	4.02	0.008	479.1	48.77	238.1	3.78	3.48	3.92
09/09/2025 17:50	14.47	2.41	2.21	4.05	0.008	481.6	48.93	238.6	3.79	3.48	3.94
09/09/2025 17:51	14.47	2.40	2.20	4.03	0.008	479.9	48.78	237.8	3.79	3.48	3.93
09/09/2025 17:52	14.49	2.42	2.23	4.03	0.008	479.2	48.80	238.2	3.78	3.48	3.92
09/09/2025 17:53	14.47	2.41	2.21	4.03	0.008	479.8	48.77	237.7	3.80	3.49	3.93
09/09/2025 17:54	14.48	2.41	2.21	4.04	0.008	480.9	48.87	238.6	3.84	3.53	3.99
09/09/2025 17:55	14.49	2.41	2.22	4.02	0.008	478.5	48.68	237.8	3.86	3.55	4.02
09/09/2025 17:56	14.50	2.41	2.22	4.02	0.008	478.9	48.71	238.4	3.84	3.54	3.97
09/09/2025 17:57	14.49	2.39	2.20	4.03	0.008	479.5	48.79	238.3	3.84	3.53	3.98
09/09/2025 17:58	14.49	2.39	2.20	4.02	0.008	478.9	48.73	238.0	3.85	3.54	3.97
09/09/2025 17:59	14.49	2.38	2.19	4.04	0.008	480.6	48.86	238.8	3.84	3.53	3.99
09/09/2025 18:00	14.48	2.38	2.19	4.03	0.008	480.2	48.86	238.3	3.84	3.53	3.98
09/09/2025 18:01	14.49	2.40	2.21	4.02	0.008	478.9	48.73	238.0	3.86	3.55	4.02
09/09/2025 18:02	14.50	2.41	2.22	4.02	0.008	479.1	48.74	238.5	3.89	3.59	4.02
09/09/2025 18:03	14.48	2.36	2.17	4.05	0.008	481.8	48.95	239.1	3.92	3.60	4.10
09/09/2025 18:04	14.48	2.34	2.15	4.02	0.008	478.4	48.70	237.4	3.91	3.59	4.07
09/09/2025 18:05	14.49	2.37	2.18	4.03	0.008	480.3	48.86	238.7	3.89	3.58	4.03
09/09/2025 18:06	14.48	2.38	2.19	4.03	0.008	480.0	48.82	238.2	3.89	3.57	4.03
09/09/2025 18:07	14.49	2.36	2.17	4.02	0.008	478.8	48.72	237.9	3.89	3.58	4.02
09/09/2025 18:08	14.50	2.36	2.18	4.02	0.008	478.6	48.74	238.2	3.88	3.58	4.02
09/09/2025 18:09	14.48	2.35	2.16	4.04	0.008	480.8	48.84	238.6	3.89	3.57	4.04
09/09/2025 18:10	14.50	2.35	2.17	4.02	0.008	479.0	48.71	238.5	3.89	3.59	4.02
09/09/2025 18:11	14.49	2.36	2.17	4.04	0.008	480.6	48.85	238.8	3.89	3.58	4.04
09/09/2025 18:12	14.48	2.35	2.16	4.03	0.008	479.7	48.76	238.0	3.91	3.59	4.08
09/09/2025 18:13	14.49	2.36	2.17	4.04	0.008	480.8	48.87	238.9	3.92	3.61	4.09
09/09/2025 18:14	14.48	2.37	2.18	4.04	0.008	481.0	48.88	238.7	3.89	3.57	4.04
09/09/2025 18:15	14.47	2.39	2.19	4.04	0.008	480.8	48.88	238.2	3.88	3.56	4.04
09/09/2025 18:16	14.47	2.41	2.21	4.04	0.008	481.1	48.88	238.4	3.87	3.55	4.04

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Period Start:	Average 2_O2 %	Average 2_NOXPPM ppm	Average 2_NOX_CORR ppm	Average 2_NOX_LBHR #/hr	Average 2_NOX_LBMM #/MBTU	Average 2_GasFlow kscfh	Average 2_LOAD MW	Average 2_STACKFLW kscfm	Average 2_COPPM ppm	Average 2_CO_CORR ppm	Average 2_CO_LBHR #/hr
09/09/2025 18:17	14.47	2.42	2.22	4.05	0.008	481.8	48.93	238.7	3.88	3.56	4.05
09/09/2025 18:18	14.48	2.43	2.23	4.04	0.008	480.4	48.84	238.4	3.87	3.56	4.04
09/09/2025 18:19	14.48	2.44	2.24	4.03	0.008	479.8	48.78	238.1	3.86	3.55	4.03
09/09/2025 18:20	14.50	2.44	2.25	4.03	0.008	479.2	48.76	238.5	3.85	3.55	4.03
09/09/2025 18:21	14.48	2.41	2.21	4.05	0.008	481.6	48.94	239.0	3.88	3.57	4.05
09/09/2025 18:22	14.47	2.38	2.18	4.03	0.008	480.3	48.84	238.0	3.89	3.57	4.03
09/09/2025 18:23	14.50	2.39	2.20	4.02	0.008	478.1	48.69	238.0	3.89	3.59	4.02
09/09/2025 18:24	14.49	2.39	2.20	4.04	0.008	481.4	48.93	239.3	3.90	3.59	4.09
09/09/2025 18:25	14.48	2.37	2.18	4.04	0.008	480.4	48.85	238.4	3.91	3.59	4.09
09/09/2025 18:26	14.48	2.37	2.18	4.04	0.008	481.3	48.90	238.8	3.90	3.58	4.04
09/09/2025 18:27	14.48	2.38	2.19	4.04	0.008	480.9	48.89	238.6	3.85	3.54	3.99
09/09/2025 18:28	14.49	2.36	2.17	4.03	0.008	480.2	48.84	238.6	3.82	3.52	3.98
09/09/2025 18:29	14.50	2.36	2.18	4.02	0.008	478.4	48.72	238.1	3.81	3.51	3.97
09/09/2025 18:30	14.51	2.34	2.16	4.03	0.008	479.7	48.81	239.2	3.81	3.52	3.98
09/09/2025 18:31	14.49	2.30	2.12	4.03	0.008	480.1	48.79	238.6	3.81	3.51	3.98
09/09/2025 18:32	14.51	2.30	2.12	4.02	0.008	479.1	48.76	238.9	3.82	3.53	3.97
Daily Average*	14.48	2.37	2.18	4.03	0.008	480.0	48.81	238.3	3.87	3.56	4.02
Maximum*	14.51	2.45	2.25	4.05	0.008	481.8	48.95	239.3	4.07	3.75	4.24
	09/09/2025 18:32	09/09/2025 17:40	09/09/2025 18:20	09/09/2025 18:21	09/09/2025 18:32	09/09/2025 18:17	09/09/2025 18:03	09/09/2025 18:24	09/09/2025 17:36	09/09/2025 17:36	09/09/2025 17:35
Minimum*	14.47	2.22	2.04	4.02	0.008	478.1	48.68	237.2	3.78	3.47	3.92
	09/09/2025 18:22	09/09/2025 17:36	09/09/2025 17:36	09/09/2025 18:32	09/09/2025 18:32	09/09/2025 18:23	09/09/2025 17:55	09/09/2025 17:31	09/09/2025 17:52	09/09/2025 17:41	09/09/2025 17:52

* Does not include Invalid Averaging Periods ("N/A")

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Average Values Report
Generated: 9/9/2025 20:44

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.,
City/St: Anaheim, CA, 92806
Source: 2

Period Start: 9/9/2025 19:13
Period End: 9/9/2025 20:15
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

2-NH3

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Period Start:	Average 2_O2 %	Average 2_NOXPPM ppm	Average 2_NOX_CORR ppm	Average 2_NOX_LBHR #/hr	Average 2_NOX_LBMM #/MBTU	Average 2_GasFlow kscfh	Average 2_LOAD MW	Average 2_STACKFLW kscfm	Average 2_COPPM ppm	Average 2_CO_CORR ppm	Average 2_CO_LBHR #/hr
09/09/2025 19:13	14.49	2.52	2.32	4.55	0.009	481.0	48.91	239.1	3.94	3.63	4.09
09/09/2025 19:14	14.49	2.52	2.32	4.53	0.009	479.7	48.78	238.4	3.95	3.64	4.13
09/09/2025 19:15	14.52	2.53	2.34	4.52	0.009	478.3	48.68	238.8	3.95	3.65	4.12
09/09/2025 19:16	14.52	2.51	2.32	4.52	0.009	478.0	48.71	238.7	3.96	3.66	4.12
09/09/2025 19:17	14.52	2.48	2.29	4.02	0.008	479.1	48.77	239.2	3.97	3.67	4.13
09/09/2025 19:18	14.52	2.51	2.32	4.52	0.009	478.7	48.71	239.0	3.99	3.69	4.17
09/09/2025 19:19	14.51	2.54	2.35	4.52	0.009	478.7	48.72	238.6	4.00	3.69	4.17
09/09/2025 19:20	14.52	2.50	2.31	4.52	0.009	478.8	48.76	239.1	3.99	3.69	4.17
09/09/2025 19:21	14.51	2.47	2.28	4.02	0.008	478.5	48.73	238.5	3.98	3.67	4.12
09/09/2025 19:22	14.52	2.45	2.27	4.02	0.008	479.1	48.81	239.2	3.99	3.69	4.18
09/09/2025 19:23	14.50	2.44	2.25	4.03	0.008	479.7	48.82	238.8	3.99	3.68	4.18
09/09/2025 19:24	14.50	2.46	2.27	4.03	0.008	479.6	48.83	238.7	3.97	3.66	4.13
09/09/2025 19:25	14.50	2.49	2.30	4.04	0.008	480.6	48.90	239.2	3.99	3.68	4.19
09/09/2025 19:26	14.48	2.48	2.28	4.04	0.008	480.6	48.86	238.5	4.01	3.69	4.19
09/09/2025 19:27	14.50	2.51	2.31	4.53	0.009	479.0	48.81	238.5	3.99	3.68	4.17
09/09/2025 19:28	14.50	2.52	2.32	4.54	0.009	480.0	48.81	238.9	3.94	3.63	4.08
09/09/2025 19:29	14.50	2.50	2.30	4.03	0.008	479.4	48.79	238.6	3.90	3.60	4.08
09/09/2025 19:30	14.51	2.50	2.31	4.53	0.009	479.7	48.85	239.2	3.90	3.60	4.08
09/09/2025 19:31	14.49	2.50	2.30	4.04	0.008	480.9	48.90	239.0	3.92	3.61	4.09
09/09/2025 19:32	14.49	2.50	2.30	4.04	0.008	480.5	48.90	238.8	3.94	3.63	4.09
09/09/2025 19:33	14.49	2.52	2.32	4.54	0.009	480.4	48.87	238.7	3.92	3.61	4.09
09/09/2025 19:34	14.51	2.55	2.35	4.51	0.009	477.5	48.72	238.1	3.91	3.61	4.06
09/09/2025 19:35	14.49	2.53	2.33	4.55	0.009	481.4	48.96	239.3	3.90	3.59	4.09
09/09/2025 19:36	14.48	2.52	2.32	4.54	0.009	479.9	48.85	238.1	3.87	3.56	4.03
09/09/2025 19:37	14.50	2.57	2.37	4.53	0.009	479.1	48.79	238.5	3.84	3.54	3.97
09/09/2025 19:38	14.50	2.59	2.39	4.52	0.009	478.6	48.76	238.2	3.81	3.51	3.97
09/09/2025 19:39	14.49	2.57	2.37	4.54	0.009	480.2	48.88	238.6	3.80	3.50	3.93
09/09/2025 19:40	14.49	2.58	2.37	4.54	0.009	480.4	48.89	238.7	3.79	3.49	3.93
09/09/2025 19:41	14.49	2.61	2.40	4.54	0.009	480.7	48.91	238.9	3.76	3.46	3.94
09/09/2025 19:42	14.49	2.64	2.43	4.54	0.009	479.9	48.86	238.5	3.74	3.44	3.88
09/09/2025 19:43	14.50	2.65	2.44	4.53	0.009	479.3	48.84	238.6	3.74	3.45	3.88
09/09/2025 19:44	14.50	2.63	2.42	4.53	0.009	479.8	48.88	238.8	3.76	3.47	3.93
09/09/2025 19:45	14.50	2.62	2.42	4.53	0.009	479.4	48.83	238.6	3.79	3.49	3.93
09/09/2025 19:46	14.50	2.62	2.42	4.53	0.009	479.4	48.84	238.6	3.80	3.50	3.98
09/09/2025 19:47	14.50	2.61	2.41	4.53	0.009	479.4	48.85	238.6	3.80	3.50	3.98
09/09/2025 19:48	14.51	2.60	2.40	4.51	0.009	477.4	48.69	238.0	3.79	3.50	3.96
09/09/2025 19:49	14.51	2.60	2.40	4.52	0.009	478.6	48.76	238.6	3.78	3.49	3.92
09/09/2025 19:50	14.51	2.58	2.38	4.53	0.009	479.2	48.81	238.9	3.78	3.49	3.92
09/09/2025 19:51	14.50	2.56	2.36	4.52	0.009	478.7	48.76	238.3	3.78	3.48	3.92
09/09/2025 19:52	14.52	2.56	2.37	4.51	0.009	477.1	48.68	238.2	3.78	3.50	3.91
09/09/2025 19:53	14.52	2.57	2.38	4.52	0.009	478.5	48.79	238.9	3.79	3.50	3.97
09/09/2025 19:54	14.51	2.53	2.34	4.52	0.009	478.8	48.83	238.7	3.81	3.52	3.97
09/09/2025 19:55	14.51	2.53	2.34	4.51	0.009	477.4	48.74	238.0	3.83	3.54	3.96
09/09/2025 19:56	14.52	2.56	2.37	4.52	0.009	477.8	48.73	238.6	3.84	3.55	4.01
09/09/2025 19:57	14.53	2.54	2.35	4.51	0.009	477.5	48.69	238.8	3.85	3.57	4.01
09/09/2025 19:58	14.50	2.50	2.30	4.03	0.008	479.4	48.85	238.6	3.86	3.56	4.03
09/09/2025 19:59	14.49	2.51	2.31	4.53	0.009	479.4	48.83	238.3	3.85	3.54	3.98

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Period Start:	Average 2_O2 %	Average 2_NOXPPM ppm	Average 2_NOX_CORR ppm	Average 2_NOX_LBHR #/hr	Average 2_NOX_LBHM #/MBTU	Average 2_GasFlow kscfh	Average 2_LOAD MW	Average 2_STACKFLW kscfm	Average 2_COPPM ppm	Average 2_CO_CORR ppm	Average 2_CO_LBHR #/hr
09/09/2025 20:00	14.50	2.54	2.34	4.53	0.009	479.8	48.85	238.8	3.81	3.51	3.98
09/09/2025 20:01	14.51	2.56	2.36	4.52	0.009	477.9	48.72	238.3	3.77	3.48	3.91
09/09/2025 20:02	14.50	2.58	2.38	4.53	0.009	479.8	48.87	238.8	3.77	3.48	3.93
09/09/2025 20:03	14.52	2.56	2.37	4.51	0.009	477.3	48.71	238.3	3.77	3.49	3.91
09/09/2025 20:04	14.50	2.55	2.35	4.54	0.009	480.1	48.84	239.0	3.78	3.48	3.93
09/09/2025 20:05	14.51	2.56	2.36	4.53	0.009	479.3	48.79	239.0	3.79	3.50	3.98
09/09/2025 20:06	14.51	2.57	2.37	4.51	0.009	477.2	48.67	237.9	3.82	3.53	3.96
09/09/2025 20:07	14.52	2.58	2.39	4.52	0.009	478.4	48.75	238.9	3.83	3.54	3.97
09/09/2025 20:08	14.52	2.54	2.35	4.51	0.009	477.6	48.69	238.5	3.84	3.55	4.01
09/09/2025 20:09	14.52	2.52	2.33	4.52	0.009	477.9	48.74	238.6	3.82	3.53	3.96
09/09/2025 20:10	14.50	2.50	2.30	4.04	0.008	480.8	48.92	239.3	3.81	3.51	3.99
09/09/2025 20:11	14.49	2.52	2.32	4.54	0.009	480.6	48.94	238.8	3.81	3.51	3.99
09/09/2025 20:12	14.51	2.57	2.37	4.51	0.009	477.4	48.72	238.0	3.80	3.51	3.96
09/09/2025 20:13	14.51	2.58	2.38	4.54	0.009	480.7	48.90	239.6	3.81	3.52	3.99
09/09/2025 20:14	14.50	2.54	2.34	4.53	0.009	478.9	48.79	238.4	3.82	3.52	3.97
09/09/2025 20:15	14.51	2.56	2.36	4.53	0.009	479.5	48.83	239.1	3.82	3.53	3.98
Daily Average*	14.50	2.54	2.35	4.43	0.009	479.2	48.80	238.7	3.86	3.56	4.02
Maximum*	14.53	2.65	2.44	4.55	0.009	481.4	48.98	239.6	4.01	3.69	4.19
	09/09/2025 19:57	09/09/2025 19:43	09/09/2025 19:43	09/09/2025 19:35	09/09/2025 20:15	09/09/2025 19:35	09/09/2025 19:35	09/09/2025 20:13	09/09/2025 19:26	09/09/2025 19:26	09/09/2025 19:26
Minimum*	14.48	2.44	2.25	4.02	0.008	477.1	48.67	237.9	3.74	3.44	3.88
	09/09/2025 19:36	09/09/2025 19:23	09/09/2025 19:23	09/09/2025 19:22	09/09/2025 20:10	09/09/2025 19:52	09/09/2025 20:06	09/09/2025 20:06	09/09/2025 19:43	09/09/2025 19:42	09/09/2025 19:43

* Does not include Invalid Averaging Periods (*N/A*)

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APPENDIX C CALCULATIONS

Appendix C.1

General Emissions Calculations

GENERAL EMISSIONS CALCULATIONS

I. Stack Gas Velocity

A. Stack gas molecular weight, lb/lb-mole

$$MW_{dry} = 0.44 * \% CO_2 + 0.32 * \% O_2 + 0.28 * \% N_2$$

$$MW_{wet} = MW_{dry} * (1 - B_{wo}) + 18 * B_{wo}$$

B. Absolute stack pressure, iwg

$$P_s = P_{bar} + \frac{P_{sg}}{13.6}$$

C. Stack gas velocity, ft/sec

$$V_s = 2.9 * C_p * \sqrt{\Delta P} * \sqrt{T_s} * \sqrt{\frac{29.92 * 28.95}{P_s * MW_{wet}}}$$

II. Moisture

A. Sample gas volume, dscf

$$V_{mstd} = 0.03342 * V_m * \left(P_{bar} + \frac{\Delta H}{13.6} \right) * \frac{T_{ref}}{T_m} * Y_d$$

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{ic} * \frac{T_{ref}}{528^{\circ}R}$$

C. Moisture content, dimensionless

$$B_{wo} = \frac{V_{wstd}}{(V_{mstd} + V_{wstd})}$$

III. Stack Gas Volumetric Flow Rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

$$Q_{sd} = Q * (1 - B_{wo}) * \frac{T_{ref}}{T_s} * \frac{P_s}{29.92}$$

IV. Gaseous Mass Emission Rates, lb/hr

$$M = \frac{\text{ppm} * MW_i * Q_{sd} * 60}{SV * 10^6}$$

V. Emission Rates, lb/MMBtu

$$\frac{\text{lb}}{\text{MMBtu}} = \frac{\text{ppm} * MW_i * F}{SV * 10^6} * \frac{20.9}{20.9 - \% O_2}$$

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1 - B_{wo}) * V_s * P_s * Dn^2} * \frac{528^\circ R}{T_{ref}}$$

VII. Particulate Emissions

(a) Grain loading, gr/dscf

$$C = 0.01543 (M_n / V_{m \text{ std}})$$

(b) Grain loading at 12% CO₂, gr/dscf

$$C_{12\% \text{ CO}_2} = C (12\% \text{ CO}_2)$$

(c) Mass emissions, lb/hr

$$M = C * Q_{sd} * (60 \text{ min/hr}) / (7000 \text{ gr/lb})$$

(d) Particulate emission factor

$$\text{lb}/10^6 \text{ Btu} = Cx \frac{1 \text{ lb}}{7000 \text{ gr}} * F * \frac{20.9}{20.9 - \% O_2}$$

Nomenclature:

A _s	=	stack area, ft ²
B _{w0}	=	flue gas moisture content, dimensionless
C _{12%CO₂}	=	particulate grain loading, gr/dscf corrected to 12% CO ₂
C	=	particulate grain loading, gr/dscf
C _p	=	pitot calibration factor, dimensionless
D _n	=	nozzle diameter, inches
F	=	fuel F-Factor, dscf/MMBtu @ 0% O ₂
H	=	orifice differential pressure, iwg
I	=	% isokinetics
M _n	=	mass of collected particulate, mg
M _i	=	mass emission rate of specie i, lb/hr
MW	=	molecular weight of flue gas, lb/lb-mole
M _{wi}	=	molecular weight of specie i:
		SO ₂ : 64
		NO _x : 46
		CO: 28
		HC: 16
0	=	sample time, minutes
ΔP	=	average velocity head, iwg = $(\sqrt{\Delta P})^2$
P _{bar}	=	barometric pressure, inches Hg
P _s	=	stack absolute pressure, inches Hg
P _{sg}	=	stack static pressure, iwg
Q	=	wet stack flow rate at actual conditions, wacfm
Q _{sd}	=	dry standard stack flow rate, dscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T _m	=	meter temperature, °R
T _{ref}	=	reference temperature, °R
T _s	=	stack temperature, °R
V _s	=	stack gas velocity, ft/sec
V _{lc}	=	volume of liquid collected in impingers, ml
V _m	=	uncorrected dry meter volume, dcf
V _{mstd}	=	dry meter volume at standard conditions, dscf
V _{wstd}	=	volume of water vapor at standard conditions, scf
Y _d	=	meter calibration coefficient

Appendix C.2

Spreadsheet Summaries

SCAQMD METHOD 207.1 DATA WORKSHEET AND SUMMARY

Facility.....	Canyon		Parameter.....		NH ₃
Unit.....	U2		Fuel.....		Natural gas
Sample Location.....	Stack		Data By.....		PW
Test Number.....	1-NH3-U2	2-NH3-U2	Average	Maximum	Limit
Reference Temperature (°F).....	60	60			
Test Date.....	9/9/2025	9/9/2025			
Test Method.....	SCAQMD 207.1	SCAQMD 207.1			
Sample Train.....	50-WCS	50-WCS			
Meter Calibration Factor.....	0.995	0.995			
Stack Area (ft ²).....	106.90	106.90			
Sample Time (Minutes).....	60	60			
Barometric Pressure ("Hg).....	29.61	29.61			
Start/Stop Time	1729/1832	1912/2015			
Meter Volume (acf).....	43.842	44.463			
Meter Temperature (°F).....	78.4	73.9			
Meter Pressure (iwg).....	1.8	1.8			
Liquid Volume (ml).....	113.2	113.9			
Stack O ₂ (%).....	14.48	14.50	14.49	(from facility CEMS)	
Unit Load (MW).....	48.81	48.80	48.8		
Standard Sample Volume (SCF).....	41.879	42.830			
Moisture Fraction.....	0.112	0.110			
Stack Flow Rate (dscfm, 68 °F).....	238,300	238,700	238,500	(from facility CEMS)	
Stack Flow Rate (@ Tref).....	234,689	235,083	234,886		
Gas Constant (ft-lbf/lb-mole-R).....	1545.33	1545.33			
Molecular Weight NH ₃ (lb/lb-mole).....	17.03	17.03			
Specific Molar Volume (ft ³ /lb-mole)....	379.5	379.5			
F-Factor (dscf/MMBtu).....	8,710	8,710			
HHV(Btu/SCF).....	1,050	1,050			
Mass Conversion (lb/ug).....	2.2046E-09	2.2046E-09			
O ₂ Correction Factor (%).....	15	15			
Mass NH ₃ (ug).....	1,261.613	1,215.560			
Mass NH ₃ (lb).....	2.78E-06	2.68E-06			
NH ₃ (ppmv, flue gas)	1.48	1.39	1.44	1.48	
NH ₃ (ppmv @ O ₂ Correction Factor)...	1.36	1.29	1.32	1.36	5
NH ₃ (lb/hr).....	0.93	0.88	0.91	0.93	
NH ₃ (lb/MMBtu).....	0.002	0.002	0.002	0.002	
NH ₃ (lb/MMSCF).....	1.94	1.84	1.89	1.94	

Note: SCAQMD Method 207.1 requires the higher of the duplicate runs be reported as the test result.

SCAQMD 207.1 EXAMPLE CALCULATION TEST NUMBER: 1-NH3-U2

Identifier	Description	Units	Equation	Value
A	Reference Temperature	F	--	60
B	Reference Temperature	R	A + 460	520
C	Meter Calibration Factor (Yd)	--	--	0.995
D	Barometric Pressure	" Hg	--	29.61
E	Meter Volume	acf	--	43.842
F	Meter Temperature	F	--	78.4
G	Meter Temperature	R	F + 460	538.4
H	Delta H	" H ₂ O	--	1.8
I	Meter Volume (standard)	dscf	$0.03342 * E * (D + H/13.6) * B/G * C$	41.879
J	Liquid Collected	grams	--	113.2
K	Water vapor volume	scf	$0.0472 * J * B/528$	5.262
L	Moisture Content	--	$K/(K + I)$	0.112
M	Gas Constant	ft-lbf/lb-mole-R	--	1545.33
N	Specific Molar Volume	SCF/lb-mole	$385.3 * B / 528$	379.5
O	F-Factor	dscf/MMBtu	--	8,710
P	HHV	Btu/SCF	--	1,050
Q	Mass Conversion Factor	lb/ug	--	2.2046E-09
R	O ₂ Correction Factor	--	--	15
S	Stack Flow Rate @ 68 F	dscfm	--	238,300
T	Stack Flow Rate @ Tref	dscfm	$S * B/528$	234,689
U	Mass NH ₃	ug	--	1,262
V	Mass NH ₃	lb	$U * Q$	2.78E-06
W	MW of NH ₃	lb/lb-mole	--	17.03
X	NH ₃	ppm	$(V * N * 10^6)/(I * W)$	1.5
Y	Flue Gas O ₂	%	--	14.48
Z	NH ₃	ppmc	$X * (20.9 - R)/(20.9 - Y)$	1.4
AA	NH ₃	lb/hr	$X * T * W * 60/(N * 10^6)$	0.9
AB	NH ₃	lb/MMBtu	$(X * W * O)/(385.3 * 10^6) * 20.9/(20.9 - Y)$	0.002
AC	NH ₃	lb/MMSCF	$AB * P$	1.9

Note:

(1) Some values may be slightly different from those shown on the run sheets due to round off errors. This page is intended to show the calculation methodology only.

APPENDIX D QUALITY ASSURANCE

Appendix D.1

Quality Assurance Program Summary

QUALITY ASSURANCE PROGRAM SUMMARY

As part of Montrose Air Quality Services, LLC (Montrose) ASTM D7036-04 certification, Montrose is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. Montrose 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: Montrose has assigned an internal QA Officer who is responsible for administering all aspects of the QA program.

Internal Quality Assurance Manual: Montrose 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 Montrose's QA efforts. The manual is revised upon periodic review and as Montrose 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. Montrose 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 Montrose 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 Montrose's 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: Montrose maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations.

Chain-of-Custody: Montrose maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to Montrose source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to Montrose 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, is 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)
- Flame Resistant Clothing (if required)

The following safety measures are 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	<ol style="list-style-type: none"> 1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	<ol style="list-style-type: none"> 1. Free mechanical movement 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	<ol style="list-style-type: none"> 1. Absence of malfunction 2. Proper response to zero span gas 	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Steam clean 2. Leak check
Mobile Van Sampling System	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling Lines	<ol style="list-style-type: none"> 1. Sample degradation less than 2% 	After each test series	<ol style="list-style-type: none"> 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 ΔH@	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	± 1.5%

Note: Calibration requirements that meet applicable regulatory agency requirements are used.

Appendix D.2

SCAQMD and STAC Certifications



September 26, 2024

Mr. John Peterson
Montrose Air Quality Services, LLC
1631 E. Saint Andrew Place
Santa Ana, CA 92705

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Peterson:

We have completed our review of Montrose Air Quality Services' revised renewal application, which was submitted as notification of Montrose's recent acquisition of AirKinetics, Inc. under the South Coast AQMD Laboratory Approval Program (LAP). We are pleased to inform you that your firm is approved for the period beginning September 30, 2024, and ending September 30, 2025, for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

South Coast AQMD Methods 1-4
South Coast AQMD Methods 10.1 and 100.1
South Coast AQMD Methods 5.1, 5.2, 5.3, 6.1 (Sampling and Analysis)
South Coast AQMD Methods 25.1 and 25.3 (Sampling)
Rule 1121/ 1146.2 Protocol
Rule 1420/1420.1/1420.2 – (Lead) Source and Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Your LAP approval to perform nitrogen oxide emissions compliance testing for Rule 1121/ 1146.2 Protocols includes satellite facilities located at:

McKenna Boiler 1510 North Spring Street Los Angeles, CA 90012	Noritx America Corp. 11160 Grace Avenue Fountain Valley, CA 92708	Ajax Boiler, Inc. 2701 S. Harbor Blvd. Santa Ana, CA 92704
VA Laundry Bldg., Greater LA Healthcare Sys. 508 Constitution Avenue Los Angeles, CA 90049	So Cal Gas – Engr Analysis Ctr, Bldg H 8101 Rosemead Blvd Pico Rivera, CA 90660	

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to LAP Coordinator, Colin Eckerle. He may be reached by telephone at (909) 396-2476, or via e-mail at ceckerle@aqmd.gov.

Sincerely,

D. Sarkar

Dipankar Sarkar
Program Supervisor
Source Test Engineering

DS:CE
Attachment
240926 LapRenewal.doc



American Association for Laboratory Accreditation

Accredited Air Emission Testing Body

A2LA has accredited

MONTROSE AIR QUALITY SERVICES

In recognition of the successful completion of the joint A2LA and Stack Testing Accreditation Council (STAC) 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 27th day of February, 2024.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 28, 2026

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

Appendix D.3 Individual QI Certificate

CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Methods 1.1 - 4.1

Certificate Number: 002-2021-71



Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 12/27/2021

DATE OF EXPIRATION: 12/26/2026



CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Method 207.1

Certificate Number: 002-2021-68



Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 12/27/2021

DATE OF EXPIRATION: 12/26/2026



Appendix D.4

Statement of No Conflict of Interest

STATEMENT OF NO CONFLICT OF INTEREST AS AN INDEPENDENT TESTING LABORATORY

(To be completed by authorized source testing firm representative and included in source test report)

The following facility and equipment were tested by my source testing firm and are the subjects of this statement:

Facility ID:	153992
Date(s) Tested:	September 9, 2025
Facility Name:	Canyon Power Plant
Equipment Address:	3071 E. Mira Loma Avenue Anaheim, California 92806
Equipment Tested:	Unit 2
Device ID, A/N, P/N:	D7

I state, as its legally authorized representative, that the source testing firm of:

Source Test Firm: Montrose Air Quality Services, LLC
Business Address: 1631 E. St. Andrew Pl.
Santa Ana, California 92705

is an "Independent Testing Laboratory" as defined in **District Rule 304(k)**:

For the purposes of this Rule, when an independent testing laboratory is used for the purposes of establishing compliance with District rules or to obtain a District permit to operate, it must meet all of the following criteria:

- (1) *The testing laboratory shall have no financial interest in the company or facility being tested, or in the parent company, or any subsidiary thereof -*
- (2) *The company or facility being tested, or parent company or any subsidiary thereof, shall have no financial interest in the testing laboratory;*
- (3) *Any company or facility responsible for the emission of significant quantities of pollutants to the atmosphere, or parent company or any subsidiary thereof shall have no financial interest in the testing laboratory; and*
- (4) *The testing laboratory shall not be in partnership with, own or be owned by, in part or in full, the contractor who has provided or installed equipment (basic or control), or monitoring systems, or is providing maintenance for installed equipment or monitoring systems, for the company being tested.*

Furthermore, I state that any contracts or agreements entered into by my source testing firm and the facility referenced above, or its designated contractor(s), either verbal or written, are not contingent upon the outcome of the source testing, or the source testing information provided to the SCAQMD.

Signature: Patrick Whitman **Date:** 9/30/2025
Patrick Whitman **Client Project Manager** **(714) 279-6777** **9/30/2025**
(Name) (Title) (Phone) (Date)

APPENDIX E APPLICABLE PERMIT SECTIONS



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
GAS TURBINE, NO. 2, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000PC SPRINT, SIMPLE CYCLE, 479 MMBTU/HR AT 46 DEG F, WITH INLET CHILLING, WITH WATER INJECTION WITH AN: 555829	D7	C9	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-3-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 1.67 LBS/HR NATURAL GAS (5C) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A63.1, A99.1, A99.2, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D12.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1, I298.2, K40.1
GENERATOR, 50.95 MW					

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
CO OXIDATION CATALYST, NO. 2, BASE, 110 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 476657	C9	D7 C10			
SELECTIVE CATALYTIC REDUCTION, NO. 2, CORMETECH CMHT-21, 1012 CU.FT.; WIDTH: 2 FT 6 IN; HEIGHT: 25 FT 9 IN; LENGTH: 18 FT WITH A/N: 476657	C10	C9 S12		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.5, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
AMMONIA INJECTION STACK, TURBINE NO. 2, HEIGHT: 86 FT; DIAMETER: 11 FT 8 IN A/N: 555829	S12	C10			

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : C4, C10, C16, C22]

D12.5 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 2-1-2008; RULE 1110.2, 11-1-2019; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002; RULE 1401, 9-1-2017; RULE 1470, 5-4-2012; RULE 2012, 5-6-2005; 40CFR 60 Subpart III, 7-7-2016]

[Devices subject to this condition : D25]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1	1 hour	Outlet of the SCR serving this equipment



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test(s) shall be conducted quarterly during the first twelve months of operation of the catalytic control device and annually thereafter when four consecutive quarterly source tests demonstrate compliance with the ammonia emission limit. If an annual test is failed, four consecutive quarterly source tests must demonstrate compliance with the ammonia emissions limits prior to resuming annual source tests.

The South Coast AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

If the turbine is not in operation during one calendar year, then no testing is required during that calendar year.

The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using South Coast AQMD Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted and the results submitted to the South Coast AQMD within 60 days after the test date.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit.

[RULE 1135, 11-2-2018; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D7, D13, D19]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Sampling Time	Test Location
SOX emissions	AQMD Laboratory Method 307-91	District-approved averaging time	Fuel sample



South Coast Air Quality Management District
 21865 Copley Drive, Diamond Bar, CA 91765-4178

Section D	Page: 30
Facility ID:	153992
Revision #:	4
Date:	August 19, 2021

**FACILITY PERMIT TO OPERATE
 CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

VOC emissions	District Method 25.3	1 hour	Outlet of the SCR
	Modified		serving this equipment
PM emissions	District method 5.1	4 hours	Outlet of the SCR
			serving this equipment

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: Mr. Patrick Whitman
Title: Client Project Manager
Region: West
Email: Pwhitman@montrose-env.com
Phone: (714) 279-6777

Name: Mr. Matt McCune
Title: Principal
Region: West
Email: MMccune@montrose-env.com
Phone: (714) 279-6777

**TEST REPORT FOR
FOURTH QUARTER 2025 AMMONIA SLIP TEST
AT CANYON POWER PLANT UNIT 3
FACILITY ID: 153992, DEVICE ID: D13**

Prepared For:

Canyon Power Plant
3071 E. Mira Loma Avenue
Anaheim, California 92806

For Submittal To:

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765-4178

Prepared By:

Montrose Air Quality Services, LLC
1631 E. St. Andrew Pl.
Santa Ana, California 92705
(714) 279-6777

Patrick Whitman

Test Date: **November 4, 2025**
Production Date: **December 10, 2023**
Report Number: **W002AS-061073-RT-8000**



CONFIDENTIALITY STATEMENT

Except as otherwise required by law or regulation, this information contained in this communication is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that is proprietary, privileged or confidential or otherwise legally exempt from disclosure. If you are not the named addressee, you are not authorized to read, print, retain, copy, or disseminate this message or any part of it.

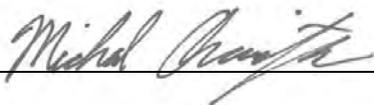
REVIEW AND CERTIFICATION

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: 12/10/2025

Name: Patrick Whitman 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: 12/10/2025

Name: Michael Chowsanitphon Title: Reporting Hub Manager

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by Southern California Public Power Authority (SCPPA) Canyon Power Plant to perform an ammonia slip test at Unit 3 as required by the facility Permit (Facility ID 153992) Condition Number D29.2. This report documents the results of the ammonia slip tests performed on November 4, 2025. The test was performed by Patrick Whitman, Phillip Caro, Alberto Muniz, and Isaac Garcia. Patrick Whitman was the on-site Qualified Individual for MAQS. Ms. Bertha Hernandez of SCPPA City of Anaheim coordinated the test for Canyon Power Plant.

MAQS qualifies as an independent testing laboratory under SCAQMD Rule 304 (no conflict of interest) and is certified by the SCAQMD to conduct testing for criteria pollutants according to District Methods.

The test consisted of duplicate ammonia tests performed at 48.6 MW. The test program followed the procedures described in the initial compliance test protocol (MAQS document R038842). The results of the test are summarized in Table 1-1. The table shows that the ammonia slip from this unit was less than the permitted limit of 5 ppm corrected to 15% O₂.

**TABLE 1-1
AMMONIA SLIP TEST RESULTS SUMMARY
SCPPA – CANYON POWER PLANT
UNIT 3
NOVEMBER 4, 2025**

Parameter/Units	Result ⁽¹⁾	Limit
NH₃		
ppm	1.4	--
ppm @ 15% O ₂	1.3	5

(1) Maximum of duplicate runs, as required by SCAQMD Method 207.1.

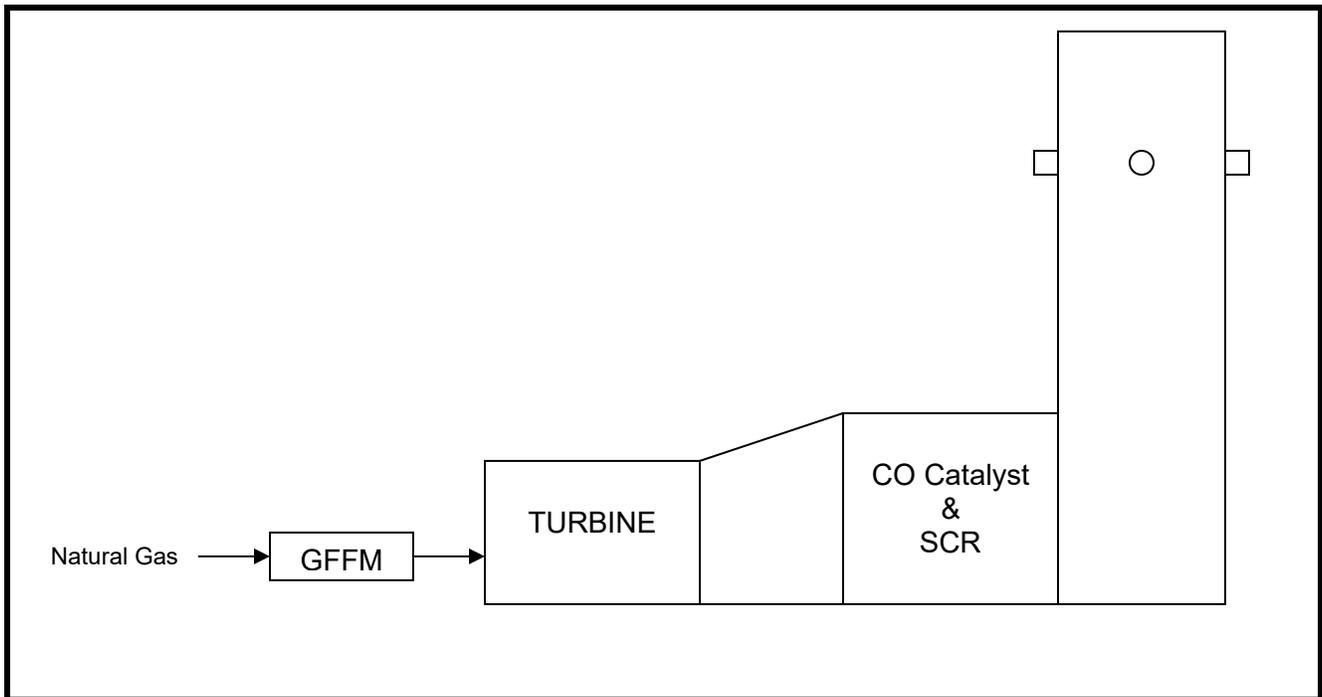
Section 2 of this document provides a brief description of the unit, test conditions, sample location, and CEMS. Details of the test procedures are provided in Section 3. Section 4 provides the results of each individual test. All raw data, calculations, quality assurance data, unit operating conditions, and CEMS data are provided in the appendices.

2.0 UNIT AND CEMS DESCRIPTION

2.1 UNIT DESCRIPTION

The City of Anaheim Canyon Power Plant is located at 3071 E. Mira Loma Avenue, Anaheim, California 92806. The facility consists of four identical generating units. Each unit consists of a natural gas fired, GE Model LM6000PC Sprint simple cycle, gas turbine. The units are natural gas fired with a rated heat input of 479 MMBtu per hour at 46°F, with water injection. The units are equipped with a CO oxidation catalyst and Selective Catalytic Reduction (SCR) system for emissions controls. A simplified process block diagram of the unit is presented as Figure 2-1.

FIGURE 2-1
SIMPLIFIED PROCESS BLOCK DIAGRAM
SCPPA – CANYON POWER PLANT
UNIT 3



Stack Inside Diameter:	11 feet, 8 inches
Distance from Upstream Disturbance:	23 feet, 4 inches (2.0 Diameters)
Distance from Stack Exit:	16 feet, 6 inches (1.4 Diameters)

2.2 CEMS DESCRIPTION

NO_x and CO emissions from the unit are monitored by a dry, extractive Continuous Emission Monitoring System (CEMS). Stack flow rate is determined from fuel flow rate, O₂ concentration, standard F-Factor, and fuel higher heating value using EPA Method 19.

2.3 TEST CONDITIONS

The tests were performed with the unit operating at an average load of 48.6 MW. Tests were performed while the unit was firing natural gas and operating under normal conditions. Unit operation was established by the Canyon Power Plant operators.

2.4 SAMPLE LOCATION

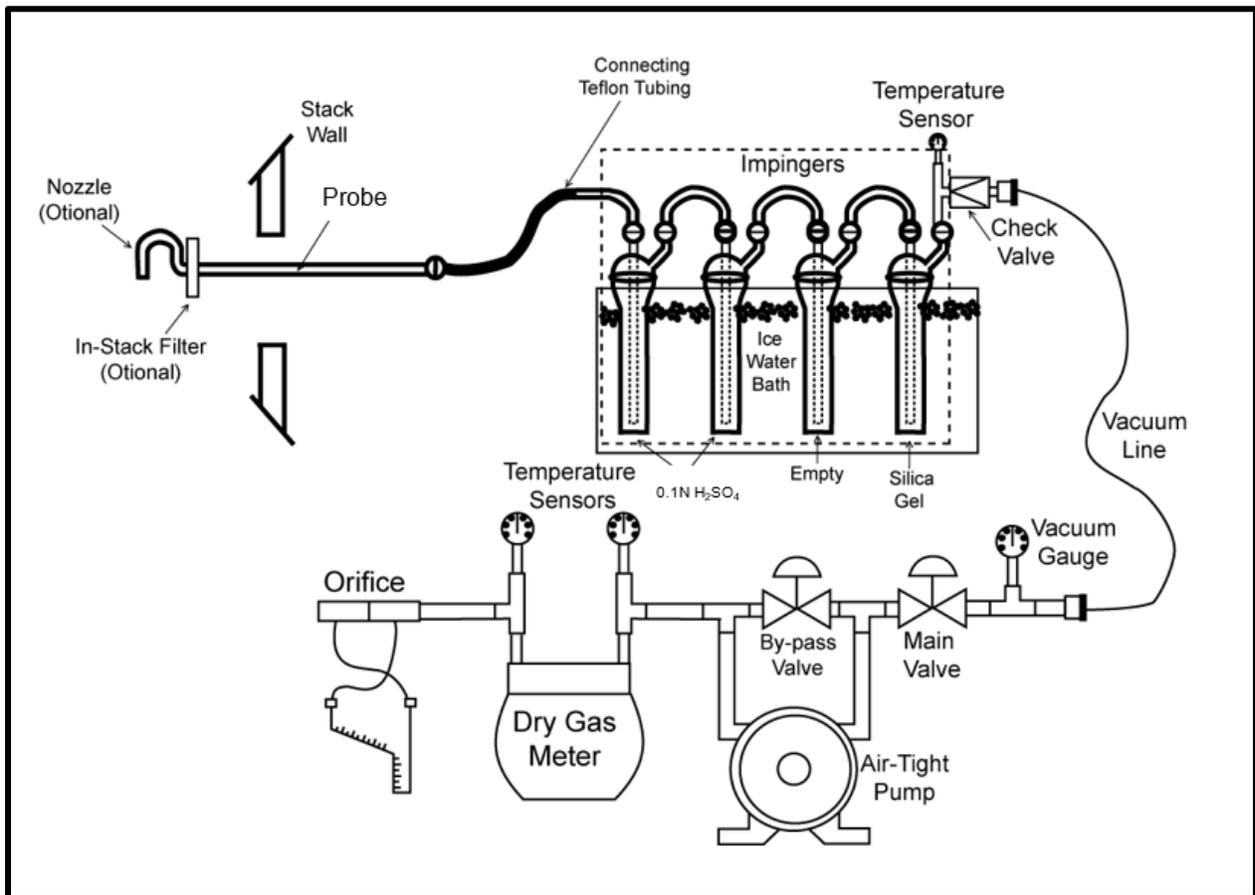
The measurements were made from sample ports located on the exhaust stack. There are four sample ports equally spaced at this location. The stack inside diameter at the sample plane is 11 feet, 8 inches. The sample ports are located 23 feet, 4 inches (2.0 diameters) downstream of the nearest flow disturbance and 16 feet, 6 inches (1.4 diameters) from the stack exit. A diagram of the sample location and individual traverse points is contained in Appendix A.1.

3.0 TEST DESCRIPTION

Flue gas samples were collected non-isokinetically using a SCAQMD Method 207.1 sample train. The samples were collected using a 12-point traverse at the exhaust stack location. Each test was performed over a 60 minute interval. The sample gas was drawn through a titanium probe, Teflon sample line, two impingers each containing 100 ml of 0.1N H₂SO₄, an empty impinger, an impinger containing silica gel, and a dry gas meter. The optional nozzle and filter were not used since the source is natural gas fired. The contents of the sample line and the first three impingers were recovered and analyzed by SCAQMD Method 207.1 for ammonia concentration by Ion Specific Electrode analysis. A diagram of the sampling equipment is presented as Figure 3-1.

Stack NO_x and O₂ concentrations and stack volumetric flow rate data were recorded from the Continuous Emission Monitoring System (CEMS) which is installed on the unit. These data were used to correct the ammonia concentration to 15% O₂.

FIGURE 3-1
SCAQMD METHOD 207.1 SAMPLING EQUIPMENT



4.0 RESULTS AND OVERVIEW

4.1 TEST RESULTS

The results of the test are summarized in Table 4-1. The results show that the maximum ammonia slip was 1.3 ppm @ 15% O₂ which is less than the permitted limit of 5 ppm @ 15% O₂.

**TABLE 4-1
DETAILED TEST RESULTS
CANYON POWER PLANT
UNIT 4
NOVEMBER 5, 2025**

Parameter/Units	1-NH ₃ -U4	2-NH ₃ -U4	Average	Maximum ⁽¹⁾	Limit
Start/Stop Time	1550/1656	1740/1846	--	--	--
Stack Flow , dscfm @ T _{ref} ⁽²⁾	239,121	238,235	238,678	--	--
O₂ , % ⁽²⁾	14.66	14.64	14.65	--	--
NO_x , ppm @ 15% O ₂ ⁽²⁾	2.3	2.3	2.3	--	2.5
NH₃					
ppm	1.4	1.3	1.4	1.4	--
ppm @ 15% O ₂	1.3	1.3	1.3	1.3	5
lb/hr	0.9	0.9	0.9	0.9	--
lb/MMBtu	0.002	0.002	0.002	0.002	--
lb/MMSCF	1.9	1.8	1.8	1.9	--

(1) Maximum of duplicate test runs, as required by SCAQMD Method 207.1.

(2) From facility CEMS.

4.2 TEST OVERVIEW

The test program was successful in meeting the program objectives. The QA/QC requirements of SCAQMD Method 207.1 were met. The results are considered representative of the source at the time of the tests.

APPENDIX A TEST DATA

Appendix A.1

SCAQMD Method 1.1 Data

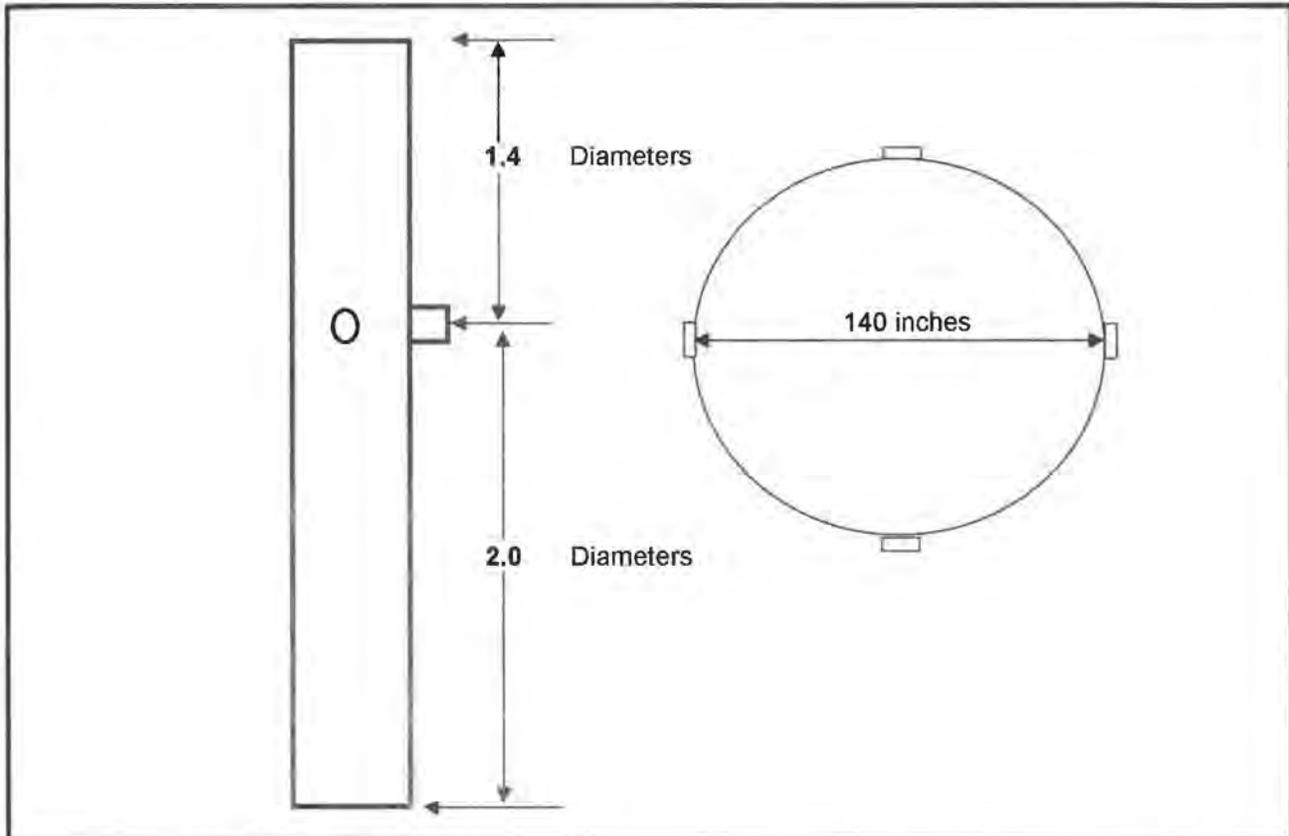
METHOD 1 DATA SHEET SAMPLE LOCATION

Client: SCPPA

Date: 11/4/25

Sample Location: 3

Performed By: PW



Diameter (in.)	<u>140.00</u>	Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
Upstream (ft.)	<u>23.33</u>	1	4.4	6.1	17.3
Downstream (ft.)	<u>16.50</u>	2	14.6	20.5	31.8
Coupling (in.)	<u>11.25</u>	3	29.6	41.4	52.7
Stack Area (ft ²)	<u>106.90</u>	4	70.4	98.6	109.8
		5	85.4	119.5	130.7
		6	95.6	133.9	145.2

Appendix A.2

Sample Data Sheets

AA MONTR

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #3 Stack
 DATE: 11/4/2025
 RUN NO: 1 -NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 GEMS Heated Line Temp: 301
 GEMS Knock Out Temp: 0.3
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 69°
 BAROMETRIC PRESSURE: 29.79
 ASSUMED MOISTURE : 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE : 20.003 CFM@ 15 in. Hg
 POST-TEST LEAK RATE : 20.003 CFM@ 13 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	914.7	735.7	179.0	12
2	0.1 N H ₂ SO ₄	743.3	740.9	2.4	12
3	Empty	650.3	648.0	2.3	
4	Silica Gel	986.5	977.0	9.5	
LR :		100mL		-100	
Total:				93.2	

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F		Vacuum in. Hg.	Pstatic in. H ₂ O
									In	Out		
3	1645	988.900	N/A	1.0	N/A	N/A	N/A	57	N/A	74	3	N/A
2	1650	991.725						57		74	3	
1	1655	994.545						57		74	3	
P.C.	1700	997.440						-		-	-	
3	1702	999.440						56		74	3	
2	1707	1000.360						56		75	3	
1	1712	1003.285						56		75	3	
P.C.	1717	1006.200						-		-	-	
3	1719	1006.200						56		72	3	
2	1724	1009.185						56		72	3	
1	1729	1012.020						54		72	3	
P.C.	1734	1014.925						-		-	-	
3	1736	1014.925						54		71	3	
2	1741	1017.800						54		71	3	
1	1746	1020.655						54		70	3	
END	1751	1023.475										
Average:												

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

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W002AS-061073-RT-8000

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AA MONTR

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #3 Stack
 DATE: 11/4/2025
 RUN NO: 2 -NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 CEMS Heated Line Temp: 300
 CEMS Knock Out Temp: 0.3
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 63°
 BAROMETRIC PRESSURE: 29.79
 ASSUMED MOISTURE : 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE : <0.05 CFM@ 15 in. Hg
 POST-TEST LEAK RATE : <0.05 CFM@ 13 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	973.2	739.8	183.4	L2
2	0.1 N H ₂ SO ₄	739.4	737.2	2.2	L2
3	Empty	655.9	655.5	0.4	
4	Silica Gel	931.8	922.9	8.9	
LR		100mL		-100	
Total:				94.9	

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3	1830	025.100	N/A	1.0	N/A	N/A	N/A	56	N/A	69	3	N/A
2	1835	27.900						54		69	3	
1	1840	30.715						54		69	3	
P.C.	1845	34.015						-		-	-	
3	1847	34.015						53		69	3	
2	1852	37.090						53		69	3	
1	* 1857	40.175						53		69	3	
P.C.	1902	43.210						-		-	-	
3	1904	43.210						53		68	3	
2	1909	46.255						54		68	3	
1	1914	49.225						54		68	3	
P.C.	1919	52.220						-		-	-	
3	1921	52.220						54		68	3	
2	1926	55.205						54		69	3	
1	1931	58.180						54		69	3	
END	1936	61.140										
Average:		36.040								68.7		

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

* PC
11-4-25

AA MONTR

Date of last revision 2/14/2017

D834055

Master Document Storage\Forms\Datasheets\Field Datasheets

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AA MONTEB

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #3 Stack
 DATE: 11/4/2025
 RUN NO: 78 -NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 CEMS Heated Line Temp:
 CEMS Knock Out Temp:
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE:
 BAROMETRIC PRESSURE: 29.79
 ASSUMED MOISTURE : 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE : CFM@ in. Hg
 POST-TEST LEAK RATE : CFM@ in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	- Pre-Test =	Difference	pH
1	0.1 N H ₂ SO ₄	640.3	739.2		LL
2	0.1 N H ₂ SO ₄	736.9	736.8		LL
3	Empty	649.7	649.7		
4	Silica Gel	986.2	986.2		
LR		100mL			
Total:					

Point	Time	Meter Volume, ft ³	ΔP		Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F		Vacuum in. Hg.	Pstatic in. H ₂ O
			in. H ₂ O	in. H ₂ O					In	Out		
3			N/A	1.0	N/A	N/A	N/A		N/A			N/A
2												
1												
P.C.												
3												
2												
1												
P.C.												
3												
2												
1												
P.C.												
3												
2												
1												
END												
Average:												

Field Blank

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

Appendix A.3 Laboratory Data

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS CALCULATION DATA

District Method: SCAQMD 207.1



Project Number: PROJ-061073
 Client/Location: SCPPA
 Sample Location: Canyon Unit 3
 Sample Date: 11/4/2025
 Analysis Date: 11/4/2025
 Analyst's Initials: IG

Calibration Curve Slope: -57.5068
 Y-intercept: 98.4318
 R²: 1.0000
 Thermometer #: 1
 ISE Electrode #: 2

Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Conc. µg NH ₃ -N/ml	C _{avg} as N	C _{avg} as NH ₃	µg NH ₃ /sample	Result µg NH ₃ /sample*
Standard Check: 28 µg NH ₃ -N/ml	NA	20.4	14.9	28.350	28.579	34.739	NA	NA
		20.2	14.5	28.808				
1-NH ₃	500	19.9	90.1	1.396	1.416	1.721	860.517	860.517
		19.7	89.4	1.436				
2-NH ₃	500	20.2	85.6	1.672	1.645	2.000	999.959	999.959
		20.1	86.4	1.619				
Spike 1-NH ₃	NA	19.6	24.7	19.149	19.342	23.512	NA	NA
		19.7	24.2	19.536				
Standard Check: 28 µg NH ₃ -N/ml	NA	20.7	14.0	29.390	29.509	35.869	NA	NA
		20.7	13.8	29.627				
Reagent Blank 0.1N H ₂ SO ₄	NA	21.1	191.0	0.025	0.024	0.030	NA	NA
		21.0	191.4	0.024				
DI H ₂ O Blank	NA	19.8	205.0	0.014	0.014	0.017	NA	NA
		19.8	205.7	0.014				
Field Blank	500	20.2	189.3	0.026	0.026	0.032	15.792	NA
		20.4	189.9	0.026				
Standard Check: 28 µg NH ₃ -N/ml	NA	20.4	14.0	29.390	29.157	35.442	NA	NA
		20.2	14.4	28.923				

Notes:

- Measured Concentration of Ammonia (C) in ug NH₃-N/ml.
- $C = 10^{(P-B)/M}$, P = electrode potential (mV), M=slope and B=intercept.
- Average Measured Ammonia Concentration (C_{avg}) = (C₁ + C₂)/2 where C₁, C₂ are results from duplicate analyses (ug NH₃/ml as N).
- C_{avg} (ug NH₃-N/ml) = C_{avg} (ug NH₃-N/ml) * 17.03/14.01.
- ug NH₃ / sample = C_{avg} (ug NH₃-N/ml) * TV.
- Used 100 ml of samples and standards with 2 ml ISA and constant stirring rate, analyzed in duplicate.
- Sample pH and temperatures can be found on the laboratory datasheet.
- Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
- All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
- All calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- Sample solutions, blanks and C.V. Standard temperature must be within ± 2°C.
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- Reporting Limit (RL) based on lowest concentration on calibration curve and Total Sample Volume.

* Result = greater of µg NH₃/sample or RL

RL= 1(ug/mL)*TV(mL)*(17.03/14.01)

RL (1-NH₃)= 607.78 µg NH₃/sampleRL (2-NH₃)= 607.78 µg NH₃/sample

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS QUALITY CONTROL

District Method: SCAQMD 207.1



Project Number: PROJ-061073

Client/ Location: SCPPA

Sample Location: Canyon Unit 3

Sample Date: 11/4/2025

Analysis Date: 11/4/2025

Analyst's Initials: IG

Sample	Recovery (%)	RPD (%)	RPA (%)
Standard Check: 28 µg NH ₃ -N/ml	NA	-1.60	2.068
1-NH3	NA	-2.80	NA
2-NH3	NA	3.20	NA
Spike 1-NH3	93.36	-2.00	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	-0.80	5.388
Reagent Blank 0.1N H ₂ SO ₄	NA	1.60	NA
DI H ₂ O Blank	NA	2.80	NA
Field Blank	NA	2.40	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	1.60	4.132

Notes:

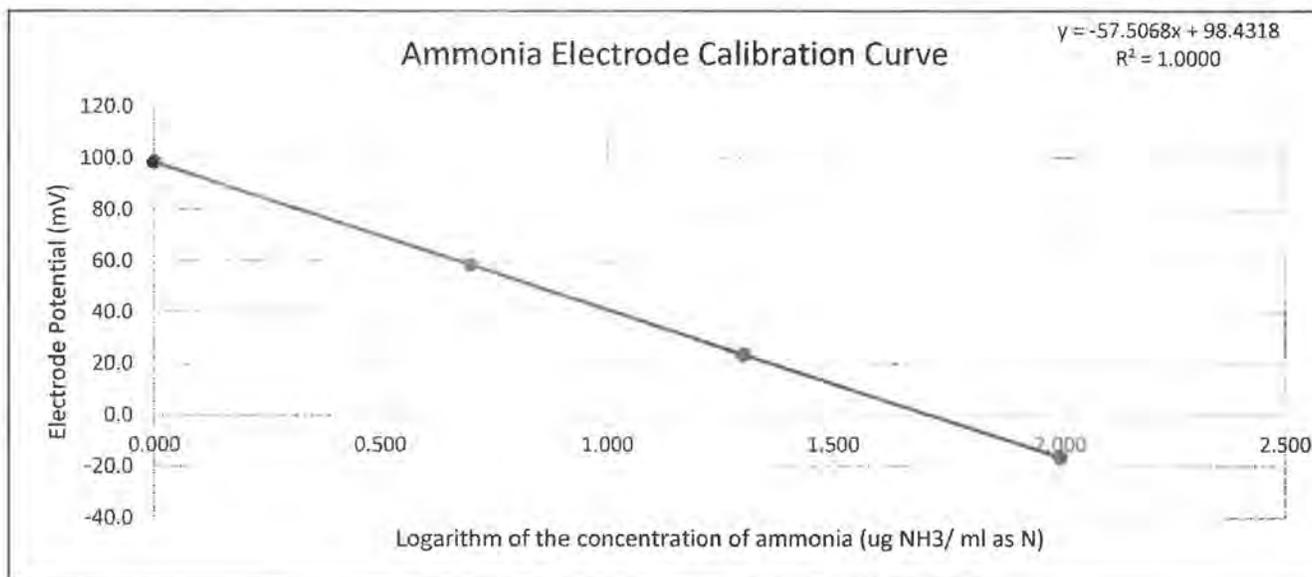
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- Matrix Spike Percent Recovery (%R).
- %R = $(C_{\text{spike}} * 0.104 - C_{\text{sample}} * 0.102) / 2 * 100$.
- Cspike = average result of matrix spike (ug NH₃-N/ml).
- Relative Percent Difference (RPD) = $(C_1 - C_2) / C_{\text{avg}} * 100$ (must be 5% or less).
- Relative Percent Accuracy (RPA) (must be 10% or less).
- RPA = $(C_{\text{avg}} - \text{theoretical value of standard}) / \text{theoretical value of standard} * 100$.

AMMONIA ELECTRODE CALIBRATION CURVE DATA



District Method: SCAQMD 207.1
 Date: November 4, 2025
 Project Number: PROJ-061073
 Client/Location: SCPPA

NH ₃ concentration (µg NH ₃ -N/ml)	Log NH ₃ concentration	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	0.000	98.3	19.8	19.8
5	0.699	58.5	19.9	
20	1.301	23.5	20.0	
100	2.000	-16.6	20.1	



Slope	Y-Intercept	R ²
-57.5068	98.4318	1.0000

NH ₃ concentration (µg NH ₃ -N/ml)	Value LR line	Difference	% Difference
1	1.0053	0.0053	0.5292
5	4.9475	-0.0525	-1.0504
20	20.0913	0.0913	0.4564
100	100.0729	0.0729	0.0729

Notes:

- Regression Line: $P = M \cdot \log(\text{ug of NH}_3 / \text{ml as N}) + B$.
- Measured Concentration of Ammonia (C) in ug NH₃ as N/ml : $C = 10^{(P-B)/M}$ where P = electrode potential, M = slope and B = intercept.
- All standards are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.
- Calibration solution temperature must be within ± 2°C.

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS DATA



District Method: SCAQMD 207.1

Project Number: PROS-061073
 Client/Location: SCPPA
 Sample Location: Lamon Unit 3
 Sample Date: 11/4/2025
 Analysis Date: 11/4/2025

Calibration Curve: $-57.5068x + 98.4318$
 R^2 : 1.0000
 Thermometer #: 1
 ISE Electrode #: 2
 Analyst's Initials: JG

NH ₃ concentration (µg NH ₃ -N/ml)	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	98.3	19.8	19.8
5	58.5	19.9	
20	23.5	20.0	
100	-16.6	20.1	

#16
11/4/25

Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Blue after ISA (Y/N)	pH
Standard Check: 28 µg NH ₃ -N/ml	NA	20.4	14.9	Y	NA
		20.2	14.5	Y	
1-NH ₃ 500	500	19.9	90.1	Y	<2
		19.7	89.4	Y	
2-NH ₃	500	20.2	85.6	Y	<2
		20.1	86.4	Y	
Spike: 1-NH ₃	NA	19.6	24.7	Y	NA
		19.7	24.2	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	20.7	14.0	Y	NA
		20.7	13.8	Y	
Reagent Blank 0.1N H ₂ SO ₄	NA	21.1	141.0	Y	NA
		21.0	141.4	Y	
DI H ₂ O Blank	NA	19.8	205.0	Y	NA
		19.8	205.7	Y	
Field Blank	500	20.2	189.3	Y	<2
		20.4	189.9	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	20.4	14.0	Y	NA
		20.2	14.4	Y	

Notes:

- Used 100 ml of samples or standards with 2 ml ISA and constant stirring rate.
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- All calibration solution and calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
- All solutions turned blue and remained blue with ISA unless otherwise indicated.
- Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
- All samples must have a pH of less than 2.
- Sample solutions, calibration solution and C.V. standard temperature must be within ± 2°C of one another.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.

Appendix A.4 QA/QC Data

Barometric Pressure Determination	
Date: <u>11/4/2025</u>	
Data By: <u>Patrick Whitman</u>	
Reference: https://forecast.weather.gov/MapClick.php?lon=-117.85962867946365&lat=33.863355545614255	
Reference Barometer ID	FW0063 Fullerton CSU (F0063)
Reference Barometer Location	Lat: 33.8805°N Lon: 117.88417°W Elev: 247ft.
Reference Barometer Other Info.	04 Nov 01:09 PM PST
Reference Barometer Indication, corrected to sea	30.13
Reference Barometer Reference Elevation	247
Reference Barometer Actual Pressure	29.88
Test Barometer Location/Site	Canyon Power Plant
Location/Site Elevation	279
Location/Site Barometric Pressure	29.85
Sampling Location Height (above/below site elevation)	60
Sampling Location Barometric Pressure	29.79

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Model #: C-5000
 ID #: 48 - WCS
 Date: 10/1/2025
 Bar. Pressure: 29.92 (in. Hg)
 Performed By: P. Caro
 Reviewed By: S. Adhikari

DRY GAS METER READINGS							CRITICAL ORIFICE READINGS					Ambient Temperature		
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Initial Temps. Inlet (deg F)	Initial Temps. Outlet (deg F)	Final Temps. Inlet (deg F)	Final Temps. Outlet (deg F)	Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Final (deg F)	Average (deg F)
0.14	26.00	698.100	703.706	5.605		85.0		85.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.14	26.00	703.705	709.310	5.605		85.0		86.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.14	26.00	709.310	714.920	5.610		88.0		88.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.68	12.00	680.800	686.330	5.530		82.0		83.0	PK-48	0.3479	17.0	73.0	73.0	73.0
0.68	12.00	686.330	691.865	5.535		83.0		84.0	PK-48	0.3479	17.0	73.0	73.0	73.0
0.68	12.00	691.865	697.410	5.545		84.0		84.0	PK-48	0.3479	17.0	73.0	73.0	73.0
1.90	7.00	663.500	669.770	5.270		78.0		80.0	PK-63	0.5703	16.0	72.0	72.0	72.0
1.90	7.00	669.770	674.040	5.270		80.0		80.0	PK-63	0.5703	16.0	72.0	73.0	72.5
1.90	7.00	674.040	679.320	5.280		80.0		82.0	PK-63	0.5703	16.0	73.0	73.0	73.0
3.60	5.00	641.000	646.190	5.190		75.0		75.0	PK-73	0.7909	15.0	72.0	72.0	72.0
3.60	5.00	646.190	651.365	5.175		75.0		76.0	PK-73	0.7909	15.0	72.0	72.0	72.0
3.60	5.00	651.365	656.535	5.170		76.0		76.0	PK-73	0.7909	15.0	72.0	72.0	72.0

DRY GAS METER		ORIFICE		DRY GAS METER CALIBRATION FACTOR		ORIFICE CALIBRATION FACTOR		Individual Run	Individual Orifice	Orifice Average	Orifice Average
VOLUME CORRECTED Vm(std) (cu ft)	VOLUME CORRECTED Vm(std) (liters)	VOLUME CORRECTED Vcr(std) (cu ft)	VOLUME CORRECTED Vcr(std) (liters)	VOLUME NOMINAL Vcr (cu ft)	Y Value (number)	dH@ Value (in H2O)	dH@ - dH@ av < 0.155?	0.95 < Y < 1.05?	Ymax - Ymin < 0.010?	0.98 < Y/Yd < 1.02?	dH@ - dH@ av < 0.155?
5.430	153.8	5.462	154.7	5.518	1.006	1.729	Pass				
5.425	153.6	5.462	154.7	5.518	1.007	1.727	Pass				
5.425	153.6	5.462	154.7	5.518	1.007	1.728	Pass				
				Average	1.007	1.727			Pass	Pass	Pass
5.389	152.8	5.410	153.2	5.464	1.004	1.831	Pass				
5.384	152.5	5.410	153.2	5.464	1.005	1.828	Pass				
5.389	152.6	5.410	153.2	5.464	1.004	1.826	Pass				
				Average	1.004	1.828			Pass	Pass	Pass
5.184	148.8	5.179	146.7	5.220	0.999	1.913	Pass				
5.175	148.6	5.176	146.6	5.222	1.000	1.911	Pass				
5.175	146.6	5.174	146.5	5.225	1.000	1.909	Pass				
				Average	1.000	1.911			Pass	Pass	Pass
5.165	146.3	5.130	145.3	5.171	0.993	1.899	Pass				
5.146	145.7	5.130	145.3	5.171	0.997	1.897	Pass				
5.136	145.4	5.130	145.3	5.171	0.999	1.895	Pass				
				Average	0.996	1.897			Pass	Pass	Pass

Average Yd: 1.002 dH@: 1.841
 Q @ dH = 1: 0.583

Performed by signature:

P. Caro
S. Adhikari

Date:

10/1/25

Reviewed by signature:

Date:

10/1/2025

Note: Control box not equipped with meter inlet temperature reading.



DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 48-WCS
 Readout Description: Control box
 Date: 7/2/2025
 Performed By: PR/PC

Calibrated Thermocouple ID: TC-Cal
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	48-WCS	371	370	371	371	370	370	370	370	0.7	0.1%	Pass
T2 (~212 F)	48-WCS	213	212	213	213	212	212	212	212	0.7	0.1%	Pass
T1 (~ 32 F)	48-WCS	36	36	35	36	32	32	32	32	3.7	0.7%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Thermocouple Source Readings

T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference			
	Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
T4 (~650 F)	129462	652	652	651	652	650	650	650	650	1.7	0.2%	Pass
T3 (~370 F)	129462	368	367	368	368	370	370	370	370	2.3	0.3%	Pass
T2 (~212 F)	129462	211	211	211	211	212	212	212	212	1.0	0.1%	Pass
T1 (~32 F)	129462	30	30	30	30	32	32	32	32	2.0	0.4%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Quarterly Thermometer Calibration Data Form

Temperature Reference:	Calibration:
Manufacturer: <u>ThermCo</u>	Temp. instrument Calibration Date: <u>October 10, 2025</u>
Serial Number: <u>A 98-289</u>	Cal by: <u>IG</u>
Reference Thermometer Calibration Expiration: <u>Mercury (N/A)</u>	

Thermometer Manufacturer: <u>Thermo Scientific</u>					Status: <u>Pass</u>						
Serial Number: <u>Probe #1 (BP1-11933)</u>											
Reading	Iced Water (°F)		Average (°F)		% (°R)	Reading	Room Temp Water (°F)		Average (°F)		% (°R)
	T _{ref}	T	T _{ref}	T	ΔT		T _{ref}	T	T _{ref}	T	ΔT
1 st min	41.4	42.3	41.2	42.2	0.2	1 st min	69.8	69.1	69.7	69.2	0.1
2 nd min	41.0	42.1				2 nd min	69.6	69.3			

- 1) Calibrations follow Chapter III of SCAQMD Source Test Manual
- 2) $\Delta T \text{ (}^\circ\text{R)} = (\text{ABS}((T_{\text{ref}} \text{ (}^\circ\text{F)} + 459.67) - (T \text{ (}^\circ\text{F)} + 459.67))) / (\text{AVERAGE}(T_{\text{ref}} \text{ (}^\circ\text{F)} \ \& \ T \text{ (}^\circ\text{F)}) + 459.67) * 100$
- 3) Pass if all Differences are less than 1.5% (°R)

SCAQMD METHOD 207.1 - AMMONIA DETERMINATION OF SAMPLE TIME

Source: Canyon 3
Date: 11/4/2025
Performed by: PW

Constants:

	1,000	mg/gram
	454	grams/lb
	35.315	SCF/SCM
	379.5	SCF/lb-mole
	1,000,000	parts/million parts
MW _{NH3}	17.03	lb/lb-mole
MW _{N2}	14.01	lb/lb-mole

Variables:

Target concentration	5	ppm @ O ₂ correction factor
O ₂ correction factor	15	% O ₂
Expected Flue Gas O ₂	14.5	% O ₂
F	2	Safety Factor
P	128.5	electrode potential corresponding to minimum value on calibration curve (mV)
B	128.83	y-intercept
M	-58.676	slope
V _r	0.5	Assumed liquid volume of probe rinse and first impinger (L)
Q @ dH = 1	0.55	cfm

Calculated Values:

Target concentration	5.4	ppm - raw
Target concentration	3.90	mg/dscm
C ₁	1.013	Lowest concentration on a calibration curve (mg NH ₃ -N/L)
RL	0.616	analytical mass reporting limit, mg
PSV	0.316	Planned sample volume, cubic meters
PSV	11.144	Planned sample volume, cubic feet
VSR	33.0	achievable volumetric sampling rate (dscf/hr)

PST	20.3	Planned sample time, minutes (minimum)
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Notes:

- 1) A minimum of 1 hour sample time is required for any mass per hour limits.
- 2) Facility Permit or Rule may specify sample time

APPENDIX B FACILITY CEMS DATA

Average Values Report
Generated: 11/4/2025 22:19

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.,
City/St: Anaheim, CA, 92806
Source: 3

Period Start: 11/4/2025 16:46
Period End: 11/4/2025 17:51
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

1-NH3

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Period Start:	Average 3_O2 %	Average 3_NOXPPM ppm	Average 3_NOX_CORR ppm	Average 3_NOX_LBHR #/hr	Average 3_NOX_LBMM #/MBTU	Average 3_COPPM ppm	Average 3_CO_CORR ppm	Average 3_CO_LBHR #/hr	Average 3_CO_LBMM #/MBTU	Average 3_GasFlow kscfh	Average 3_LOAD MW	Average 3_STACKFLW kscfm
11/04/2025 16:46	14.70	2.46	2.34	4.39	0.009	3.52	3.35	3.66	0.0075	464.5	48.42	238.7
11/04/2025 16:47	14.70	2.47	2.35	4.39	0.009	3.52	3.35	3.66	0.0075	464.4	48.51	238.6
11/04/2025 16:48	14.70	2.48	2.36	4.38	0.009	3.51	3.34	3.65	0.0075	463.3	48.46	238.1
11/04/2025 16:49	14.72	2.49	2.38	4.38	0.009	3.49	3.33	3.65	0.0075	463.3	48.27	238.8
11/04/2025 16:50	14.71	2.52	2.40	4.37	0.009	3.46	3.30	3.59	0.0074	462.5	48.22	238.0
11/04/2025 16:51	14.72	2.55	2.43	4.37	0.009	3.43	3.27	3.55	0.0073	462.9	48.33	238.6
11/04/2025 16:52	14.71	2.55	2.43	4.38	0.009	3.42	3.26	3.55	0.0073	463.2	48.32	238.4
11/04/2025 16:53	14.71	2.54	2.42	4.38	0.009	3.42	3.26	3.56	0.0073	463.8	48.44	238.7
11/04/2025 16:54	14.70	2.53	2.41	4.39	0.009	3.43	3.26	3.56	0.0073	464.2	48.48	238.5
11/04/2025 16:55	14.70	2.49	2.37	4.39	0.009	3.45	3.28	3.61	0.0074	464.3	48.46	238.6
11/04/2025 16:56	14.70	2.47	2.35	4.39	0.009	3.50	3.33	3.66	0.0075	464.6	48.51	238.7
11/04/2025 16:57	14.70	2.47	2.35	4.39	0.009	3.53	3.36	3.66	0.0075	464.4	48.43	238.6
11/04/2025 16:58	14.70	2.47	2.35	4.39	0.009	3.55	3.38	3.71	0.0076	464.9	48.41	238.9
11/04/2025 16:59	14.70	2.44	2.32	4.39	0.009	3.56	3.39	3.71	0.0076	465.0	48.47	239.0
11/04/2025 17:00	14.70	2.42	2.30	3.91	0.008	3.58	3.41	3.71	0.0076	465.1	48.54	239.0
11/04/2025 17:01	14.70	2.40	2.28	3.90	0.008	3.60	3.43	3.76	0.0077	464.9	48.55	238.9
11/04/2025 17:02	14.70	2.41	2.29	3.90	0.008	3.60	3.43	3.76	0.0077	464.9	48.57	238.9
11/04/2025 17:03	14.70	2.42	2.30	3.90	0.008	3.59	3.42	3.76	0.0077	464.6	48.71	238.7
11/04/2025 17:04	14.70	2.43	2.31	4.39	0.009	3.60	3.43	3.76	0.0077	464.5	48.51	238.7
11/04/2025 17:05	14.70	2.43	2.31	4.39	0.009	3.59	3.42	3.75	0.0077	464.3	48.69	238.6
11/04/2025 17:06	14.70	2.42	2.30	3.90	0.008	3.56	3.39	3.71	0.0076	464.3	48.64	238.6
11/04/2025 17:07	14.70	2.44	2.32	4.39	0.009	3.55	3.38	3.70	0.0076	464.2	48.59	238.5
11/04/2025 17:08	14.70	2.45	2.33	4.39	0.009	3.52	3.35	3.65	0.0075	464.1	48.45	238.5
11/04/2025 17:09	14.70	2.45	2.33	4.38	0.009	3.50	3.33	3.65	0.0075	463.7	48.55	238.3
11/04/2025 17:10	14.70	2.47	2.35	4.38	0.009	3.48	3.31	3.60	0.0074	463.9	48.45	238.4
11/04/2025 17:11	14.70	2.49	2.37	4.39	0.009	3.48	3.31	3.61	0.0074	464.1	48.44	238.5
11/04/2025 17:12	14.70	2.48	2.36	4.39	0.009	3.47	3.30	3.61	0.0074	464.3	48.60	238.6
11/04/2025 17:13	14.70	2.48	2.36	4.39	0.009	3.49	3.32	3.65	0.0075	464.1	48.55	238.5
11/04/2025 17:14	14.70	2.48	2.36	4.39	0.009	3.51	3.34	3.66	0.0075	464.5	48.52	238.7
11/04/2025 17:15	14.70	2.49	2.37	4.39	0.009	3.52	3.35	3.66	0.0075	464.6	48.77	238.7
11/04/2025 17:16	14.70	2.48	2.36	4.39	0.009	3.53	3.36	3.66	0.0075	464.4	48.57	238.6
11/04/2025 17:17	14.70	2.47	2.35	4.39	0.009	3.53	3.36	3.66	0.0075	464.2	48.58	238.5
11/04/2025 17:18	14.70	2.47	2.35	4.38	0.009	3.53	3.36	3.65	0.0075	463.6	48.49	238.2
11/04/2025 17:19	14.70	2.48	2.36	4.38	0.009	3.53	3.36	3.65	0.0075	463.7	48.37	238.3
11/04/2025 17:20	14.71	2.49	2.37	4.38	0.009	3.52	3.36	3.65	0.0075	463.7	48.48	238.7
11/04/2025 17:21	14.71	2.48	2.36	4.39	0.009	3.52	3.36	3.66	0.0075	464.2	48.45	238.9
11/04/2025 17:22	14.70	2.48	2.36	4.38	0.009	3.50	3.33	3.65	0.0075	463.8	48.48	238.3
11/04/2025 17:23	14.71	2.49	2.37	4.38	0.009	3.49	3.33	3.65	0.0075	463.6	48.58	238.6
11/04/2025 17:24	14.71	2.51	2.39	4.38	0.009	3.49	3.33	3.65	0.0075	463.9	48.31	238.7
11/04/2025 17:25	14.71	2.51	2.39	4.38	0.009	3.49	3.33	3.65	0.0075	463.8	48.69	238.7
11/04/2025 17:26	14.71	2.49	2.37	4.38	0.009	3.48	3.32	3.60	0.0074	463.6	48.68	238.6
11/04/2025 17:27	14.71	2.47	2.35	4.38	0.009	3.47	3.31	3.60	0.0074	463.7	48.41	238.7
11/04/2025 17:28	14.71	2.47	2.35	4.38	0.009	3.47	3.31	3.60	0.0074	463.6	48.53	238.6
11/04/2025 17:29	14.71	2.48	2.36	4.38	0.009	3.46	3.30	3.60	0.0074	463.5	48.64	238.6
11/04/2025 17:30	14.70	2.48	2.36	4.38	0.009	3.44	3.27	3.56	0.0073	463.9	48.60	238.4
11/04/2025 17:31	14.71	2.48	2.36	4.38	0.009	3.45	3.29	3.60	0.0074	463.8	48.49	238.7
11/04/2025 17:32	14.71	2.48	2.36	4.38	0.009	3.45	3.29	3.60	0.0074	463.4	48.61	238.5
11/04/2025 17:33	14.71	2.47	2.35	4.38	0.009	3.47	3.31	3.60	0.0074	463.5	48.52	238.6
11/04/2025 17:34	14.71	2.48	2.36	4.38	0.009	3.48	3.32	3.60	0.0074	463.4	48.56	238.5
11/04/2025 17:35	14.71	2.49	2.37	4.38	0.009	3.48	3.32	3.60	0.0074	463.7	48.57	238.7
11/04/2025 17:36	14.71	2.47	2.35	4.38	0.009	3.48	3.32	3.60	0.0074	463.2	48.49	238.4
11/04/2025 17:37	14.71	2.47	2.35	4.38	0.009	3.48	3.32	3.60	0.0074	463.6	48.55	238.6

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Period Start:	Average 3_O2 %	Average 3_NOXPPM ppm	Average 3_NOX_CORR ppm	Average 3_NOX_LBHR #/hr	Average 3_NOX_LBMM #/MBTU	Average 3_COPPM ppm	Average 3_CO_CORR ppm	Average 3_CO_LBHR #/hr	Average 3_CO_LBMM #/MBTU	Average 3_GasFlow kscfh	Average 3_LOAD MW	Average 3_STACKFLW kscfa
11/04/2025 17:38	14.71	2.48	2.36	4.38	0.009	3.48	3.32	3.60	0.0074	463.3	48.40	238.5
11/04/2025 17:39	14.71	2.51	2.39	4.38	0.009	3.46	3.30	3.60	0.0074	463.1	48.56	238.4
11/04/2025 17:40	14.72	2.52	2.41	4.37	0.009	3.44	3.28	3.60	0.0074	462.8	48.57	238.5
11/04/2025 17:41	14.72	2.51	2.40	4.37	0.009	3.43	3.27	3.55	0.0073	462.8	48.55	238.5
11/04/2025 17:42	14.71	2.51	2.39	4.37	0.009	3.41	3.25	3.55	0.0073	462.9	48.51	238.2
11/04/2025 17:43	14.71	2.52	2.40	4.37	0.009	3.41	3.25	3.55	0.0073	462.6	48.55	238.1
11/04/2025 17:44	14.71	2.50	2.38	4.37	0.009	3.42	3.26	3.54	0.0073	462.5	48.52	238.0
11/04/2025 17:45	14.71	2.50	2.38	4.37	0.009	3.44	3.28	3.60	0.0074	462.9	48.52	238.2
11/04/2025 17:46	14.71	2.50	2.38	4.37	0.009	3.42	3.26	3.55	0.0073	462.8	48.33	238.2
11/04/2025 17:47	14.71	2.50	2.38	4.37	0.009	3.41	3.25	3.55	0.0073	462.7	48.53	238.1
11/04/2025 17:48	14.71	2.50	2.38	4.37	0.009	3.42	3.26	3.55	0.0073	462.9	48.55	238.2
11/04/2025 17:49	14.71	2.50	2.38	4.38	0.009	3.44	3.28	3.60	0.0074	463.4	48.52	238.5
11/04/2025 17:50	14.71	2.50	2.38	4.38	0.009	3.45	3.29	3.60	0.0074	463.0	48.63	238.3
11/04/2025 17:51	14.72	2.48	2.37	4.38	0.009	3.45	3.29	3.60	0.0074	463.4	48.71	238.7
Daily Average*	14.71	2.48	2.36	4.35	0.009	3.49	3.32	3.63	0.0075	463.8	48.51	238.5
Maximum*	14.72	2.55	2.43	4.39	0.009	3.60	3.43	3.76	0.0077	465.1	48.77	239.0
	11/04/2025 17:51	11/04/2025 16:52	11/04/2025 16:52	11/04/2025 17:21	11/04/2025 17:51	11/04/2025 17:04	11/04/2025 17:04	11/04/2025 17:04	11/04/2025 17:05	11/04/2025 17:00	11/04/2025 17:15	11/04/2025 17:00
Minimum*	14.70	2.40	2.28	3.90	0.008	3.41	3.25	3.54	0.0073	462.5	48.22	238.0
	11/04/2025 17:30	11/04/2025 17:01	11/04/2025 17:01	11/04/2025 17:06	11/04/2025 17:06	11/04/2025 17:47	11/04/2025 17:47	11/04/2025 17:44	11/04/2025 17:48	11/04/2025 17:44	11/04/2025 16:50	11/04/2025 17:44

* Does not include Invalid Averaging Periods ("N/A")

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Average Values Report
Generated: 11/4/2025 22:20

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.
City/St: Anaheim, CA, 92806
Source: 3

Period Start: 11/4/2025 18:31
Period End: 11/4/2025 19:36
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

2-NH3

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Period Start:	Average 3_O2 %	Average 3_NOXPPM ppm	Average 3_NOX_CORR ppm	Average 3_NOX_LBHR #/hr	Average 3_NOX_LBMM #/MBTU	Average 3_COPPM ppm	Average 3_CO_CORR ppm	Average 3_CO_LBHR #/hr	Average 3_CO_LBMM #/MBTU	Average 3_GasFlow kacfh	Average 3_LOAD MW	Average 3_STACKFLW kscfm
11/04/2025 18:31	14.71	2.47	2.35	4.37	0.009	3.44	3.28	3.59	0.0074	462.3	48.65	237.9
11/04/2025 18:32	14.71	2.47	2.35	4.36	0.009	3.42	3.26	3.54	0.0073	461.8	48.51	237.7
11/04/2025 18:33	14.71	2.50	2.38	4.36	0.009	3.39	3.23	3.49	0.0072	461.7	48.60	237.6
11/04/2025 18:34	14.71	2.52	2.40	4.36	0.009	3.38	3.22	3.49	0.0072	461.6	48.61	237.6
11/04/2025 18:35	14.71	2.54	2.42	4.36	0.009	3.37	3.21	3.49	0.0072	461.3	48.57	237.4
11/04/2025 18:36	14.71	2.55	2.43	4.36	0.009	3.35	3.19	3.49	0.0072	461.5	48.69	237.5
11/04/2025 18:37	14.71	2.54	2.42	4.36	0.009	3.34	3.18	3.44	0.0071	461.4	48.73	237.5
11/04/2025 18:38	14.71	2.53	2.41	4.36	0.009	3.35	3.19	3.49	0.0072	461.5	48.54	237.5
11/04/2025 18:39	14.71	2.52	2.40	4.36	0.009	3.35	3.19	3.49	0.0072	461.8	48.63	237.7
11/04/2025 18:40	14.71	2.53	2.41	4.37	0.009	3.35	3.19	3.49	0.0072	462.1	48.70	237.8
11/04/2025 18:41	14.72	2.52	2.41	4.36	0.009	3.35	3.20	3.49	0.0072	461.8	48.48	238.1
11/04/2025 18:42	14.72	2.51	2.40	4.36	0.009	3.36	3.21	3.49	0.0072	461.7	48.45	238.0
11/04/2025 18:43	14.72	2.50	2.39	4.36	0.009	3.39	3.24	3.54	0.0073	461.6	48.51	238.0
11/04/2025 18:44	14.72	2.50	2.39	4.36	0.009	3.39	3.24	3.54	0.0073	461.8	48.69	238.1
11/04/2025 18:45	14.72	2.50	2.39	4.36	0.009	3.36	3.21	3.49	0.0072	461.7	48.58	238.0
11/04/2025 18:46	14.72	2.51	2.40	4.36	0.009	3.35	3.20	3.49	0.0072	461.4	48.68	237.9
11/04/2025 18:47	14.72	2.52	2.41	4.36	0.009	3.35	3.20	3.49	0.0072	461.7	48.57	238.0
11/04/2025 18:48	14.72	2.51	2.40	4.37	0.009	3.35	3.20	3.49	0.0072	461.9	48.52	238.1
11/04/2025 18:49	14.72	2.51	2.40	4.36	0.009	3.37	3.22	3.49	0.0072	461.8	48.57	238.1
11/04/2025 18:50	14.72	2.49	2.38	4.37	0.009	3.38	3.23	3.49	0.0072	461.9	48.63	238.1
11/04/2025 18:51	14.71	2.49	2.37	4.36	0.009	3.38	3.22	3.49	0.0072	461.7	48.70	237.6
11/04/2025 18:52	14.72	2.50	2.39	4.36	0.009	3.37	3.22	3.49	0.0072	461.6	48.54	238.0
11/04/2025 18:53	14.72	2.50	2.39	4.36	0.009	3.36	3.21	3.49	0.0072	461.4	48.70	237.9
11/04/2025 18:54	14.72	2.51	2.40	4.36	0.009	3.35	3.20	3.48	0.0072	460.9	48.58	237.6
11/04/2025 18:55	14.72	2.52	2.41	4.36	0.009	3.35	3.20	3.49	0.0072	461.0	48.61	237.7
11/04/2025 18:56	14.72	2.54	2.42	4.35	0.009	3.34	3.19	3.48	0.0072	460.6	48.62	237.4
11/04/2025 18:57	14.72	2.54	2.42	4.35	0.009	3.31	3.16	3.43	0.0071	460.8	48.55	237.5
11/04/2025 18:58	14.72	2.54	2.42	4.36	0.009	3.29	3.14	3.39	0.0070	461.2	48.69	237.8
11/04/2025 18:59	14.72	2.53	2.42	4.36	0.009	3.30	3.15	3.44	0.0071	461.1	48.69	237.7
11/04/2025 19:00	14.73	2.53	2.42	4.35	0.009	3.31	3.17	3.43	0.0071	460.7	48.92	237.9
11/04/2025 19:01	14.73	2.53	2.42	4.36	0.009	3.31	3.17	3.44	0.0071	461.3	48.63	238.2
11/04/2025 19:02	14.72	2.52	2.41	4.36	0.009	3.32	3.17	3.44	0.0071	461.0	48.75	237.7
11/04/2025 19:03	14.72	2.51	2.40	4.36	0.009	3.34	3.19	3.49	0.0072	461.3	48.60	237.8
11/04/2025 19:04	14.72	2.50	2.39	4.36	0.009	3.34	3.19	3.49	0.0072	461.4	48.72	237.9
11/04/2025 19:05	14.71	2.48	2.36	4.36	0.009	3.34	3.18	3.44	0.0071	461.0	48.74	237.3
11/04/2025 19:06	14.72	2.48	2.37	4.36	0.009	3.33	3.18	3.44	0.0071	461.0	48.49	237.7
11/04/2025 19:07	14.71	2.48	2.36	4.35	0.009	3.31	3.15	3.43	0.0071	460.7	48.63	237.1
11/04/2025 19:08	14.71	2.49	2.37	4.36	0.009	3.29	3.14	3.39	0.0070	461.0	48.56	237.3
11/04/2025 19:09	14.72	2.49	2.38	4.36	0.009	3.30	3.15	3.44	0.0071	461.3	48.64	237.8
11/04/2025 19:10	14.71	2.48	2.36	4.36	0.009	3.31	3.15	3.44	0.0071	461.5	48.77	237.5
11/04/2025 19:11	14.72	2.46	2.35	4.36	0.009	3.32	3.17	3.44	0.0071	461.3	48.76	237.8
11/04/2025 19:12	14.72	2.47	2.36	4.36	0.009	3.31	3.16	3.44	0.0071	461.2	48.82	237.8
11/04/2025 19:13	14.72	2.48	2.37	4.36	0.009	3.31	3.16	3.44	0.0071	461.1	48.58	237.7
11/04/2025 19:14	14.73	2.47	2.36	4.35	0.009	3.32	3.17	3.43	0.0071	460.7	48.52	237.9
11/04/2025 19:15	14.73	2.47	2.36	4.35	0.009	3.31	3.17	3.43	0.0071	460.6	48.78	237.8
11/04/2025 19:16	14.72	2.48	2.37	4.35	0.009	3.31	3.16	3.43	0.0071	460.8	48.74	237.5
11/04/2025 19:17	14.72	2.50	2.39	4.35	0.009	3.30	3.15	3.43	0.0071	460.6	48.69	237.4
11/04/2025 19:18	14.72	2.50	2.39	4.36	0.009	3.29	3.14	3.39	0.0070	461.1	48.66	237.7
11/04/2025 19:19	14.72	2.49	2.38	4.36	0.009	3.29	3.14	3.39	0.0070	461.1	48.66	237.7
11/04/2025 19:20	14.72	2.48	2.37	4.36	0.009	3.31	3.16	3.44	0.0071	461.0	48.81	237.7
11/04/2025 19:21	14.72	2.48	2.37	4.36	0.009	3.33	3.18	3.44	0.0071	461.8	48.53	238.1
11/04/2025 19:22	14.72	2.47	2.36	4.36	0.009	3.34	3.19	3.49	0.0072	461.7	48.72	238.0

W002AS-061073-RT-8000

Period Start:	Average 3_O2 %	Average 3_NOXPPM ppm	Average 3_NOX_CORR ppm	Average 3_NOX_LBHR #/hr	Average 3_NOX_LBMM #/MBTU	Average 3_COPPM ppm	Average 3_CO_CORR ppm	Average 3_CO_LBHR #/hr	Average 3_CO_LBMM #/MBTU	Average 3_GasFlow kscfh	Average 3_LOAD MW	Average 3_STACKFLW kscfm
11/04/2025 19:23	14.72	2.45	2.34	4.36	0.009	3.34	3.19	3.49	0.0072	461.2	48.72	237.8
11/04/2025 19:24	14.72	2.45	2.34	4.36	0.009	3.34	3.19	3.49	0.0072	461.4	48.78	237.9
11/04/2025 19:25	14.72	2.45	2.34	4.36	0.009	3.34	3.19	3.49	0.0072	461.0	48.56	237.7
11/04/2025 19:26	14.73	2.47	2.36	4.36	0.009	3.33	3.18	3.44	0.0071	461.2	48.78	238.1
11/04/2025 19:27	14.73	2.48	2.37	4.36	0.009	3.33	3.18	3.44	0.0071	461.2	48.61	238.1
11/04/2025 19:28	14.73	2.48	2.37	4.36	0.009	3.33	3.18	3.44	0.0071	461.4	48.74	238.2
11/04/2025 19:29	14.73	2.48	2.37	4.36	0.009	3.34	3.19	3.49	0.0072	461.2	48.75	238.1
11/04/2025 19:30	14.73	2.48	2.37	4.36	0.009	3.33	3.18	3.44	0.0071	460.9	48.48	237.9
11/04/2025 19:31	14.72	2.48	2.37	4.35	0.009	3.31	3.16	3.43	0.0071	460.8	48.67	237.5
11/04/2025 19:32	14.72	2.48	2.37	4.35	0.009	3.29	3.14	3.39	0.0070	460.8	48.73	237.5
11/04/2025 19:33	14.72	2.50	2.39	4.35	0.009	3.29	3.14	3.39	0.0070	460.8	48.76	237.5
11/04/2025 19:34	14.72	2.50	2.39	4.36	0.009	3.29	3.14	3.39	0.0070	460.9	48.73	237.6
11/04/2025 19:35	14.72	2.49	2.38	4.36	0.009	3.29	3.14	3.39	0.0070	461.0	48.70	237.7
11/04/2025 19:36	14.72	2.50	2.37	4.36	0.009	3.30	3.15	3.44	0.0071	461.0	48.59	237.7
Daily Average*	14.72	2.50	2.38	4.36	0.009	3.34	3.18	3.46	0.0071	461.3	48.65	237.8
Maximum*	14.73	2.55	2.43	4.37	0.009	3.44	3.28	3.59	0.0074	462.3	48.92	238.2
	11/04/2025 19:30	11/04/2025 18:36	11/04/2025 18:36	11/04/2025 18:50	11/04/2025 19:36	11/04/2025 18:31	11/04/2025 18:31	11/04/2025 18:31	11/04/2025 18:31	11/04/2025 18:31	11/04/2025 19:00	11/04/2025 19:28
Minimum*	14.71	2.45	2.34	4.35	0.009	3.29	3.14	3.39	0.0070	460.6	48.45	237.1
	11/04/2025 19:10	11/04/2025 19:25	11/04/2025 19:25	11/04/2025 19:33	11/04/2025 19:36	11/04/2025 19:35	11/04/2025 19:35	11/04/2025 19:35	11/04/2025 19:35	11/04/2025 19:17	11/04/2025 18:42	11/04/2025 19:07

* Does not include Invalid Averaging Periods ("N/A")

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APPENDIX C CALCULATIONS

Appendix C.1

General Emissions Calculations

GENERAL EMISSIONS CALCULATIONS

I. Stack Gas Velocity

A. Stack gas molecular weight, lb/lb-mole

$$MW_{dry} = 0.44 * \% CO_2 + 0.32 * \% O_2 + 0.28 * \% N_2$$

$$MW_{wet} = MW_{dry} * (1 - B_{wo}) + 18 * B_{wo}$$

B. Absolute stack pressure, iwg

$$P_s = P_{bar} + \frac{P_{sg}}{13.6}$$

C. Stack gas velocity, ft/sec

$$V_s = 2.9 * C_p * \sqrt{\Delta P} * \sqrt{T_s} * \sqrt{\frac{29.92 * 28.95}{P_s * MW_{wet}}}$$

II. Moisture

A. Sample gas volume, dscf

$$V_{mstd} = 0.03342 * V_m * \left(P_{bar} + \frac{\Delta H}{13.6} \right) * \frac{T_{ref}}{T_m} * Y_d$$

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{ic} * \frac{T_{ref}}{528^{\circ}R}$$

C. Moisture content, dimensionless

$$B_{wo} = \frac{V_{wstd}}{(V_{mstd} + V_{wstd})}$$

III. Stack Gas Volumetric Flow Rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

$$Q_{sd} = Q * (1 - B_{wo}) * \frac{T_{ref}}{T_s} * \frac{P_s}{29.92}$$

IV. Gaseous Mass Emission Rates, lb/hr

$$M = \frac{\text{ppm} * MW_i * Q_{sd} * 60}{SV * 10^6}$$

V. Emission Rates, lb/MMBtu

$$\frac{\text{lb}}{\text{MMBtu}} = \frac{\text{ppm} * MW_i * F}{SV * 10^6} * \frac{20.9}{20.9 - \% O_2}$$

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1 - B_{wo}) * V_s * P_s * Dn^2} * \frac{528^\circ R}{T_{ref}}$$

VII. Particulate Emissions

(a) Grain loading, gr/dscf

$$C = 0.01543 (M_n / V_{m \text{ std}})$$

(b) Grain loading at 12% CO₂, gr/dscf

$$C_{12\% \text{ CO}_2} = C (12\% \text{ CO}_2)$$

(c) Mass emissions, lb/hr

$$M = C * Q_{sd} * (60 \text{ min/hr}) / (7000 \text{ gr/lb})$$

(d) Particulate emission factor

$$\text{lb}/10^6 \text{ Btu} = Cx \frac{1 \text{ lb}}{7000 \text{ gr}} * F * \frac{20.9}{20.9 - \% O_2}$$

Nomenclature:

A _s	=	stack area, ft ²
B _{w0}	=	flue gas moisture content, dimensionless
C _{12%CO₂}	=	particulate grain loading, gr/dscf corrected to 12% CO ₂
C	=	particulate grain loading, gr/dscf
C _p	=	pitot calibration factor, dimensionless
D _n	=	nozzle diameter, inches
F	=	fuel F-Factor, dscf/MMBtu @ 0% O ₂
H	=	orifice differential pressure, iwg
I	=	% isokinetics
M _n	=	mass of collected particulate, mg
M _i	=	mass emission rate of specie i, lb/hr
MW	=	molecular weight of flue gas, lb/lb-mole
M _{wi}	=	molecular weight of specie i:
		SO ₂ : 64
		NO _x : 46
		CO: 28
		HC: 16
0	=	sample time, minutes
ΔP	=	average velocity head, iwg = $(\sqrt{\Delta P})^2$
P _{bar}	=	barometric pressure, inches Hg
P _s	=	stack absolute pressure, inches Hg
P _{sg}	=	stack static pressure, iwg
Q	=	wet stack flow rate at actual conditions, wacfm
Q _{sd}	=	dry standard stack flow rate, dscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T _m	=	meter temperature, °R
T _{ref}	=	reference temperature, °R
T _s	=	stack temperature, °R
V _s	=	stack gas velocity, ft/sec
V _{lc}	=	volume of liquid collected in impingers, ml
V _m	=	uncorrected dry meter volume, dcf
V _{mstd}	=	dry meter volume at standard conditions, dscf
V _{wstd}	=	volume of water vapor at standard conditions, scf
Y _d	=	meter calibration coefficient

Appendix C.2

Spreadsheet Summaries

SCAQMD 207.1 EXAMPLE CALCULATION TEST NUMBER: 1-NH3

Identifier	Description	Units	Equation	Value
A	Reference Temperature	F	—	60
B	Reference Temperature	R	$A + 460$	520
C	Meter Calibration Factor (Yd)	—	—	1.002
D	Barometric Pressure	" Hg	—	29.79
E	Meter Volume	acf	—	34.575
F	Meter Temperature	F	—	72.5
G	Meter Temperature	R	$F + 460$	532.5
H	Delta H	" H ₂ O	—	1.0
I	Meter Volume (standard)	dscf	$0.03342 * E * (D + H/13.6) * B/G * C$	33.765
J	Liquid Collected	grams	—	93.2
K	Water vapor volume	scf	$0.0472 * J * B/528$	4.332
L	Moisture Content	—	$K/(K + I)$	0.114
M	Gas Constant	ft-lbf/lb-mole-R	—	1545.33
N	Specific Molar Volume	SCF/lb-mole	$385.3 * B / 528$	379.5
O	F-Factor	dscf/MMBtu	—	8,710
P	HHV	Btu/SCF	—	1,050
Q	Mass Conversion Factor	lb/ug	—	2.2046E-09
R	O ₂ Correction Factor	—	—	15
S	Stack Flow Rate @ 68 F	dscfm	—	238,500
T	Stack Flow Rate @ Tref	dscfm	$S * B/528$	234,886
U	Mass NH ₃	ug	—	861
V	Mass NH ₃	lb	$U * Q$	1.90E-06
W	MW of NH ₃	lb/lb-mole	—	17.03
X	NH ₃	ppm	$(V * N * 10^6)/(I * W)$	1.3
Y	Flue Gas O ₂	%	—	14.71
Z	NH ₃	ppmc	$X * (20.9 - R)/(20.9 - Y)$	1.2
AA	NH ₃	lb/hr	$X * T * W * 60/(N * 10^6)$	0.8
AB	NH ₃	lb/MMBtu	$(X * W * O)/(385.3 * 10^6) * 20.9/(20.9 - Y)$	0.002
AC	NH ₃	lb/MMSCF	$AB * P$	1.7

Note:

(1) Some values may be slightly different from those shown on the run sheets due to round off errors. This page is intended to show the calculation methodology only.

SCAQMD METHOD 207.1 DATA WORKSHEET AND SUMMARY

Facility.....	Canyon		Parameter.....		NH₃
Unit.....	3		Fuel.....		Natural gas
Sample Location.....	Stack		Data By.....		PW
Test Number.....	1-NH ₃	2-NH ₃	Average	Maximum ⁽¹⁾	Limit
Reference Temperature (°F).....	60	60			
Test Date.....	11/4/2025	11/4/2025			
Test Method.....	SCAQMD 207.1	SCAQMD 207.1			
Sample Train.....	48-WCS	48-WCS			
Meter Calibration Factor.....	1.002	1.002			
Stack Area (ft ²).....	106.90	106.90			
Sample Time (Minutes).....	60	60			
Barometric Pressure ("Hg).....	29.79	29.79			
Start/Stop Time	1645/1751	1830/1936			
Meter Volume (acf).....	34.575	36.040			
Meter Temperature (°F).....	72.5	68.7			
Meter Pressure (iwg).....	1.0	1.0			
Liquid Volume (ml).....	93.2	94.9			
Stack O ₂ (%).....	14.71	14.72	14.72	(from facility CEMS)	
Unit Load (MW).....	48.5	48.7	48.6		
Standard Sample Volume (SCF).....	33.765	35.448			
Moisture Fraction.....	0.114	0.111			
Stack Flow Rate (dscfm, 68 °F).....	238,500	237,800	238,150	(from facility CEMS)	
Stack Flow Rate (@ Tref).....	234,886	234,197	234,542		
Gas Constant (ft-lbf/lb-mole-R).....	1545.33	1545.33			
Molecular Weight NH ₃ (lb/lb-mole).....	17.03	17.03			
Specific Molar Volume (ft ³ /lb-mole).....	379.5	379.5			
F-Factor (dscf/MMBtu).....	8,710	8,710			
HHV(Btu/SCF).....	1,050	1,050			
Mass Conversion (lb/ug).....	2.2046E-09	2.2046E-09			
O ₂ Correction Factor (%).....	15	15			
Mass NH ₃ (ug) ⁽²⁾	860.517	999.959			
Mass NH ₃ (lb).....	1.90E-06	2.20E-06			
NH ₃ (ppmv, flue gas).....	1.3	1.4	1.3	1.4	
NH ₃ (ppmv @ O ₂ Correction Factor).....	1.2	1.3	1.3	1.3	5
NH ₃ (lb/hr).....	0.8	0.9	0.8	0.9	
NH ₃ (lb/MMBtu).....	0.002	0.002	0.002	0.002	
NH ₃ (lb/MMSCF).....	1.7	1.9	1.8	1.9	

(1) SCAQMD Method 207.1 requires the higher of the duplicate runs be reported as the test result.

(2) Analytical results below Reporting Limit (RL) are reported at RL.

1-NH3

Point	Meter Volume	Delta H	Tm In	Tm Out
6	988.900	1.0		74
5				74
4				74
3				74
2				73
1				73
Stop				
6				72
5				72
4				72
3				71
2				71
1				70
Stop	1023.475			
Result	34.575	1.0		72.5

Impinger Weights

#	Post-Test	Pre-Test	Difference
1	914.7	735.7	179.0
2	743.3	740.9	2.4
3	650.3	648.0	2.3
4	986.5	977.0	9.5
Line Rinse	0.0	100.0	-100.0
			93.2

2-NH3

Point	Meter Volume	Delta H	Tm In	Tm Out
6	25.100	1.0		69
5				69
4				69
3				69
2				69
1				69
Stop				
6				68
5				68
4				68
3				68
2				69
1				69
Stop	61.140			
Result	36.040	1.0		68.7

Impinger Weights

#	Post-Test	Pre-Test	Difference
1	923.2	739.8	183.4
2	739.4	737.2	2.2
3	655.9	655.5	0.4
4	931.8	922.9	8.9
Line Rinse	0.0	100.0	-100.0
			94.9

APPENDIX D QUALITY ASSURANCE

Appendix D.1

Quality Assurance Program Summary

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, is 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)
- Flame Resistant Clothing (if required)

The following safety measures are 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	<ol style="list-style-type: none"> 1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	<ol style="list-style-type: none"> 1. Free mechanical movement 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	<ol style="list-style-type: none"> 1. Absence of malfunction 2. Proper response to zero span gas 	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Steam clean 2. Leak check
Mobile Van Sampling System	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling lines	<ol style="list-style-type: none"> 1. Sample degradation less than 2% 	After each test series	<ol style="list-style-type: none"> 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 ΔH@	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	± 1.5%

Note: Calibration requirements that meet applicable regulatory agency requirements are used.

Appendix D.2

SCAQMD and STAC Certifications



September 18, 2025

Mr. John Peterson
Montrose Air Quality Services, LLC
1631 E. Saint Andrew Place
Santa Ana, CA 92705

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Peterson:

We have completed our review of Montrose Air Quality Services' renewal application under the South Coast AQMD Laboratory Approval Program (LAP). We are pleased to inform you that your firm is approved for the period beginning September 30, 2025, and ending September 30, 2026, for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

South Coast AQMD Methods 1-4
South Coast AQMD Methods 10.1 and 100.1
South Coast AQMD Methods 5.1, 5.2, 5.3, 6.1 (Sampling and Analysis)
South Coast AQMD Methods 25.1 and 25.3 (Sampling)
Rule 1121/ 1146.2 Protocol
Rule 1420/1420.1/1420.2 – (Lead) Source and Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Your LAP approval to perform nitrogen oxide emissions compliance testing for Rule 1121/ 1146.2 Protocols includes satellite facilities located at:

McKenna Boiler 1510 North Spring Street Los Angeles, CA 90012	Noritz America Corp. 11160 Grace Avenue Fountain Valley, CA 92708	Ajax Boiler, Inc. 2701 S. Harbor Blvd. Santa Ana, CA 92704
VA Laundry Bldg., Greater LA Healthcare Sys. 508 Constitution Avenue Los Angeles, CA 90049	So Cal Gas – Engr Analysis Ctr, Bldg H 8101 Rosemead Blvd Pico Rivera, CA 90660	

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to me by telephone at (909) 396-2476, or via e-mail at ceckerle@aqmd.gov.

Sincerely,

Colin Eckerle
Program Supervisor
Source Test Engineering

CE/ce
Attachment
250918 LapRenewal.doc



American Association for Laboratory Accreditation

Accredited Air Emission Testing Body

A2LA has accredited

MONTROSE AIR QUALITY SERVICES

In recognition of the successful completion of the joint A2LA and Stack Testing Accreditation Council (STAC) 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 27th day of February 2024.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 28, 2026

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

Appendix D.3 Individual QI Certificate

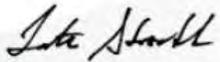
CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Methods 1.1 - 4.1

Certificate Number: 002-2021-71



Tate Strickler, VP – Quality Systems

DATE OF ISSUE:

12/27/2021

DATE OF EXPIRATION:

12/26/2026



MONTROSE
ENVIRONMENTAL

CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Method 207.1

Certificate Number: 002-2021-68



Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 12/27/2021

DATE OF EXPIRATION: 12/26/2026



Appendix D.4

Statement of No Conflict of Interest

**STATEMENT OF NO CONFLICT OF INTEREST AS AN INDEPENDENT TESTING
LABORATORY**

(To be completed by authorized source testing firm representative and included in source test report)

The following facility and equipment were tested by my source testing firm and are the subjects of this statement:

Facility ID:	153992
Date(s) Tested:	November 4, 2025
Facility Name:	Canyon Power Plant
Equipment Address:	3071 E. Mira Loma Avenue Anaheim, California 92806
Equipment Tested:	Unit 3
Device ID, A/N, P/N:	D13

I state, as its legally authorized representative, that the source testing firm of:

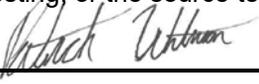
Source Test Firm: Montrose Air Quality Services, LLC
Business Address: 1631 E. St. Andrew Pl.
Santa Ana, California 92705

is an "Independent Testing Laboratory" as defined in **District Rule 304(k)**:

For the purposes of this Rule, when an independent testing laboratory is used for the purposes of establishing compliance with District rules or to obtain a District permit to operate, it must meet all of the following criteria:

- (1) The testing laboratory shall have no financial interest in the company or facility being tested, or in the parent company, or any subsidiary thereof -*
- (2) The company or facility being tested, or parent company or any subsidiary thereof, shall have no financial interest in the testing laboratory;*
- (3) Any company or facility responsible for the emission of significant quantities of pollutants to the atmosphere, or parent company or any subsidiary thereof shall have no financial interest in the testing laboratory; and*
- (4) The testing laboratory shall not be in partnership with, own or be owned by, in part or in full, the contractor who has provided or installed equipment (basic or control), or monitoring systems, or is providing maintenance for installed equipment or monitoring systems, for the company being tested.*

Furthermore, I state that any contracts or agreements entered into by my source testing firm and the facility referenced above, or its designated contractor(s), either verbal or written, are not contingent upon the outcome of the source testing, or the source testing information provided to the SCAQMD.

Signature:  **Date:** 12/10/2025
Patrick Whitman **Client Project Manager** **(714) 279-6777** **12/10/2025**
(Name) (Title) (Phone) (Date)

APPENDIX E APPLICABLE PERMIT SECTIONS



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
GAS TURBINE, NO. 3, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000PC SPRINT, SIMPLE CYCLE, 479 MMBTU/HR AT 46 DEG F, WITH INLET CHILLING, WITH WATER INJECTION WITH A/N: 555830	D13	C15	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 1.67 LBS/HR NATURAL GAS (5C) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A63.1, A99.1, A99.2, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D12.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1, I298.3, K40.1
GENERATOR, 50.95 MW					

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements
 ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
CO OXIDATION CATALYST, NO. 3, BASF, 110 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 476660	C15	D13 C16			
SELECTIVE CATALYTIC REDUCTION, NO. 3, CORMETECH CMHT-21, 1012 CU.FT.; WIDTH: 2 FT 6 IN; HEIGHT: 25 FT 9 IN; LENGTH: 18 FT WITH A/N: 476660 AMMONIA INJECTION	C16	C15 S18		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.6, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
STACK, TURBINE NO. 3, HEIGHT: 86 FT ; DIAMETER: 11 FT 8 IN A/N: 555830	S18	C16			

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : C4, C10, C16, C22]

D12.5 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[**RULE 1110.2, 2-1-2008**; **RULE 1110.2, 11-1-2019**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**; **RULE 1401, 9-1-2017**; **RULE 1470, 5-4-2012**; **RULE 2012, 5-6-2005**; **40CFR 60 Subpart IIII, 7-7-2016**]

[Devices subject to this condition : D25]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1	1 hour	Outlet of the SCR serving this equipment



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test(s) shall be conducted quarterly during the first twelve months of operation of the catalytic control device and annually thereafter when four consecutive quarterly source tests demonstrate compliance with the ammonia emission limit. If an annual test is failed, four consecutive quarterly source tests must demonstrate compliance with the ammonia emissions limits prior to resuming annual source tests.

The South Coast AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

If the turbine is not in operation during one calendar year, then no testing is required during that calendar year.

The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using South Coast AQMD Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted and the results submitted to the South Coast AQMD within 60 days after the test date.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit.

[RULE 1135, 11-2-2018; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D7, D13, D19]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Sampling Time	Test Location
SOX emissions	AQMD Laboratory Method 307-91	District-approved averaging time	Fuel sample

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: Mr. Patrick Whitman
Title: Client Project Manager
Region: West
Email: Pwhitman@montrose-env.com
Phone: (714) 279-6777

Name: Mr. Matt McCune
Title: Principal
Region: West
Email: MMccune@montrose-env.com
Phone: (714) 279-6777

**TEST REPORT FOR
FOURTH QUARTER 2025 AMMONIA SLIP TEST
AT CANYON POWER PLANT UNIT 4
FACILITY ID 153992, DEVICE ID D19**

Prepared For:

Canyon Power Plant
3071 E. Mira Loma Avenue.
Anaheim, California 92806

For Submittal To:

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, California 91765-4178

Prepared By:

Montrose Air Quality Services, LLC
1631 E. St. Andrew Pl.
Santa Ana, California 92705
(714) 279-6777

Patrick Whitman

Test Date: **November 5, 2025**
Production Date: **December 10, 2025**
Report Number: **W002AS-061073-RT-8002**



CONFIDENTIALITY STATEMENT

Except as otherwise required by law or regulation, this information contained in this communication is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that is proprietary, privileged or confidential or otherwise legally exempt from disclosure. If you are not the named addressee, you are not authorized to read, print, retain, copy, or disseminate this message or any part of it.

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: 12/10/2025
Name: Patrick Whitman 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.

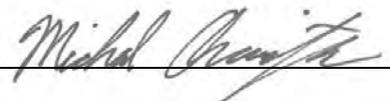
Signature:  Date: 12/10/2025
Name: Michael Chowsanitphon Title: Reporting Hub Manager

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by the Canyon Power Plant to perform an ammonia slip test at Unit 4 as required by the facility Permit (Facility ID 153992) Condition Number D29.2. This report documents the results of the ammonia slip tests performed on November 5, 2025. The test was performed by Patrick Whitman, Phillip Caro, Alberto Muniz, and Isaac Garcia. Patrick Whitman was the on-site Qualified Individual for MAQS. MAQS qualifies as an independent testing laboratory under SCAQMD Rule 304 (no conflict of interest) and is certified by the SCAQMD to conduct testing for criteria pollutants according to District Methods. Ms. Bertha Hernandez coordinated the test for Canyon Power Plant.

The test consisted of duplicate ammonia tests performed at 49.1 MW. The test program followed the procedures described in the initial compliance test protocol (MAQS document R038842). The results of the test are summarized in Table 1-1. The table shows that the ammonia slip from this unit was less than the permitted limit of 5 ppm corrected to 15% O₂.

**TABLE 1-1
RESULTS SUMMARY
CANYON POWER PLANT
UNIT 4
NOVEMBER 5, 2025**

Parameter/Units	Result ⁽¹⁾	Limit
NH₃		
ppm	1.4	--
ppm @ 15% O ₂	1.3	5

(1) Maximum of duplicate runs, as required by SCAQMD Method 207.1.

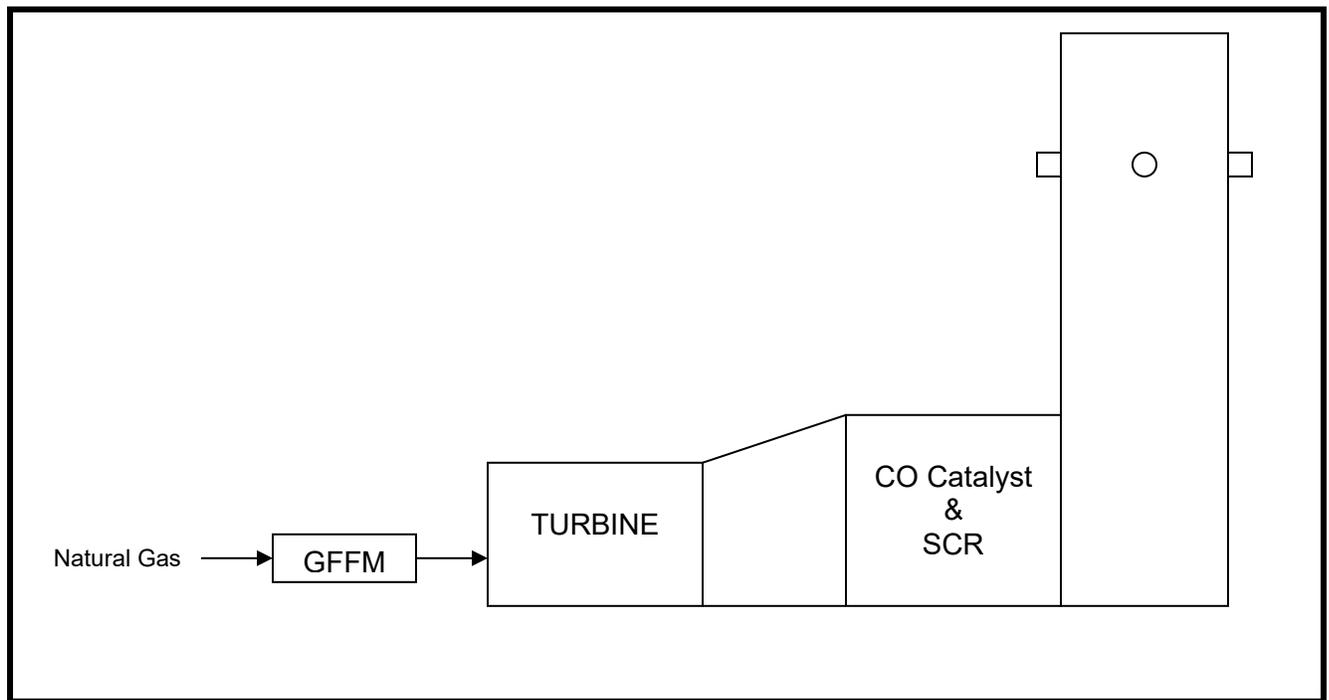
Section 2 of this document provides a brief description of the unit, test conditions, sample location, and CEMS. Details of the test procedures are provided in Section 3. Section 4 provides the results of each individual test. All raw data, calculations, quality assurance data, unit operating conditions, and CEMS data are provided in the appendices.

2.0 UNIT AND CEMS DESCRIPTION

2.1 UNIT DESCRIPTION

The City of Anaheim Canyon Power Plant is located at 3071 E. Mira Loma Avenue, Anaheim, California 92806. The facility consists of four identical generating units. Each unit consists of a natural gas fired, GE Model LM6000PC Sprint simple cycle, gas turbine. The units are natural gas fired with a rated heat input of 479 MMBtu per hour at 46°F, with water injection. The units are equipped with a CO catalyst and Selective Catalytic Reduction (SCR) system for NO_x control. A simplified process block diagram of the unit is presented as Figure 2-1.

**FIGURE 2-1
SIMPLIFIED PROCESS BLOCK DIAGRAM
CANYON POWER PLANT
UNIT 4**



Stack Inside Diameter:	11 feet, 8 inches
Distance from Upstream Disturbance:	23 feet, 4 inches (2.0 Diameters)
Distance from Stack Exit:	16 feet, 6 inches (1.4 Diameters)

2.2 CEMS DESCRIPTION

NO_x and CO emissions from the unit are monitored by a dry, extractive Continuous Emission Monitoring System (CEMS). Stack flow rate is determined from fuel flow rate, O₂ concentration, standard F-Factor, and fuel higher heating value using EPA Method 19.

2.3 TEST CONDITIONS

The tests were performed with the unit operating at an average load of 49.1 MW. Tests were performed while the unit was firing natural gas and operating under normal conditions. Unit operation was established by the Canyon Power Plant operators.

2.4 SAMPLE LOCATION

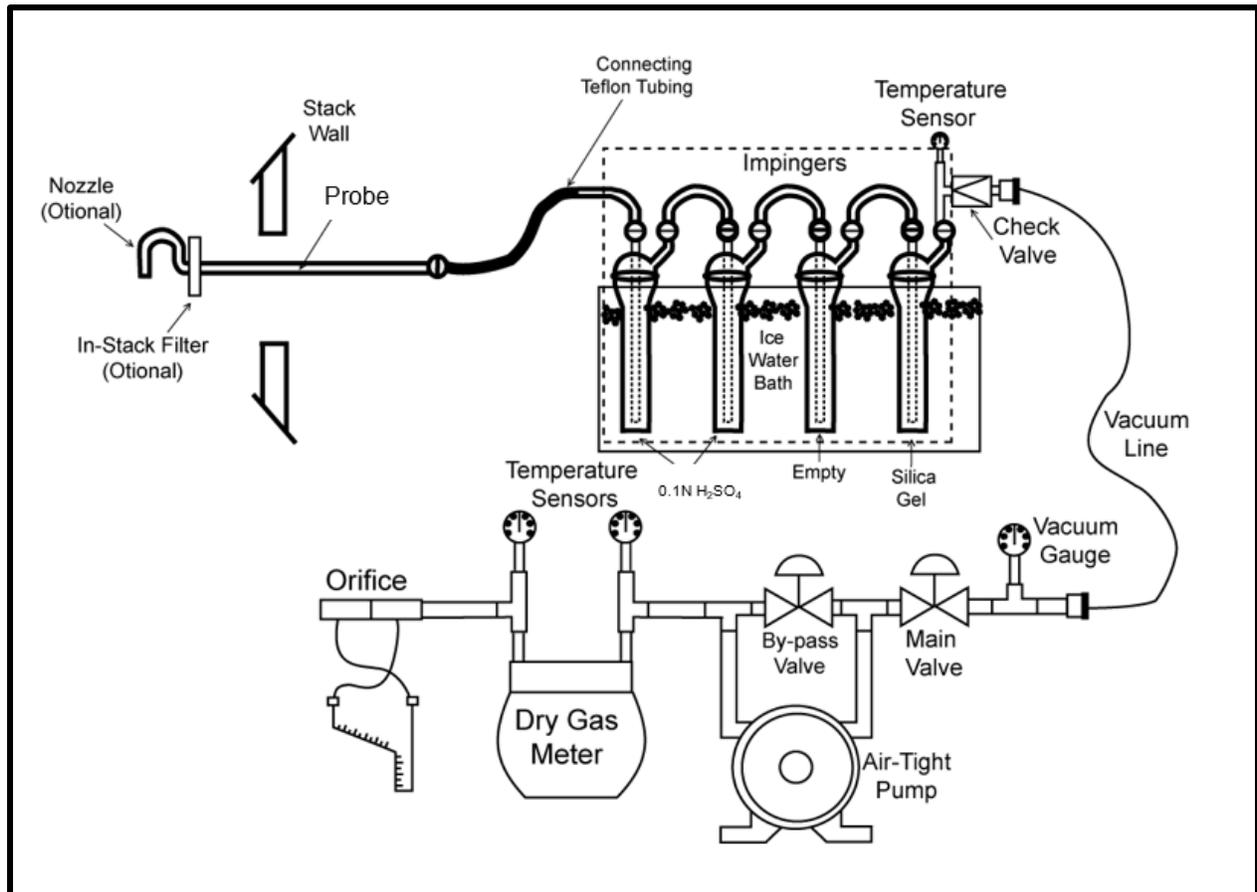
The measurements were made from sample ports located on the exhaust stack. There are four sample ports equally spaced at this location. The stack inside diameter at the sample plane is 11 feet, 8 inches. The sample ports are located 23 feet, 4 inches (2.0 diameters) downstream of the nearest flow disturbance and 16 feet, 6 inches (1.4 diameters) from the stack exit. A diagram of the sample location and individual traverse points is contained in Appendix A.1.

3.0 TEST DESCRIPTION

Flue gas samples were collected non-isokinetically using a SCAQMD Method 207.1 sample train. The samples were collected using a 12-point traverse at the exhaust stack. Each test was performed over a 60-minute interval. The sample gas was drawn through a Titanium probe, Teflon sample line, two impingers each containing 100 ml of 0.1N H₂SO₄, an empty impinger, an impinger containing silica gel, and a dry gas meter. The optional nozzle and filter were not used since the source is natural gas fired. The contents of the sample line and the first three impingers were recovered and analyzed by SCAQMD Method 207.1 for ammonia concentration by Ion Specific Electrode analysis. A diagram of the sampling equipment is presented as Figure 3-1.

Stack O₂ and NO_x concentrations and stack volumetric flow rate data were recorded from the Continuous Emission Monitoring System (CEMS) which is installed on the unit. These data were used to correct the ammonia concentration to 15% O₂.

FIGURE 3-1
SCAQMD METHOD 207.1 SAMPLING EQUIPMENT



4.0 RESULTS AND OVERVIEW

4.1 TEST RESULTS

The results of the test are summarized in Table 4-1. The results show that the maximum ammonia slip was 1.3 ppm @ 15% O₂ which is less than the permitted limit of 5 ppm @ 15% O₂.

**TABLE 4-1
DETAILED TEST RESULTS
CANYON POWER PLANT
UNIT 4
NOVEMBER 5, 2025**

Parameter/Units	1-NH3-U4	2-NH3-U4	Average	Maximum ⁽¹⁾	Limit
Start/Stop Time	1550/1656	1740/1846	--	--	--
Stack Flow , dscfm @ T _{ref} ⁽²⁾	239,121	238,235	238,678	--	--
O₂ , % ⁽²⁾	14.66	14.64	14.65	--	--
NO_x , ppm @ 15% O ₂ ⁽²⁾	2.3	2.3	2.3	--	2.5
NH₃					
ppm	1.4	1.3	1.4	1.4	--
ppm @ 15% O ₂	1.3	1.3	1.3	1.3	5
lb/hr	0.9	0.9	0.9	0.9	--
lb/MMBtu	0.002	0.002	0.002	0.002	--
lb/MMSCF	1.9	1.8	1.8	1.9	--

(1) Maximum of duplicate test runs, as required by SCAQMD Method 207.1.

(2) From facility CEMS.

4.2 TEST OVERVIEW

The test program was successful in meeting the program objectives. The QA/QC requirements of SCAQMD Method 207.1 were met. The results are considered representative of the source at the time of the tests.

APPENDIX A RAW DATA

Appendix A.1

SCAQMD Method 1.1 Data

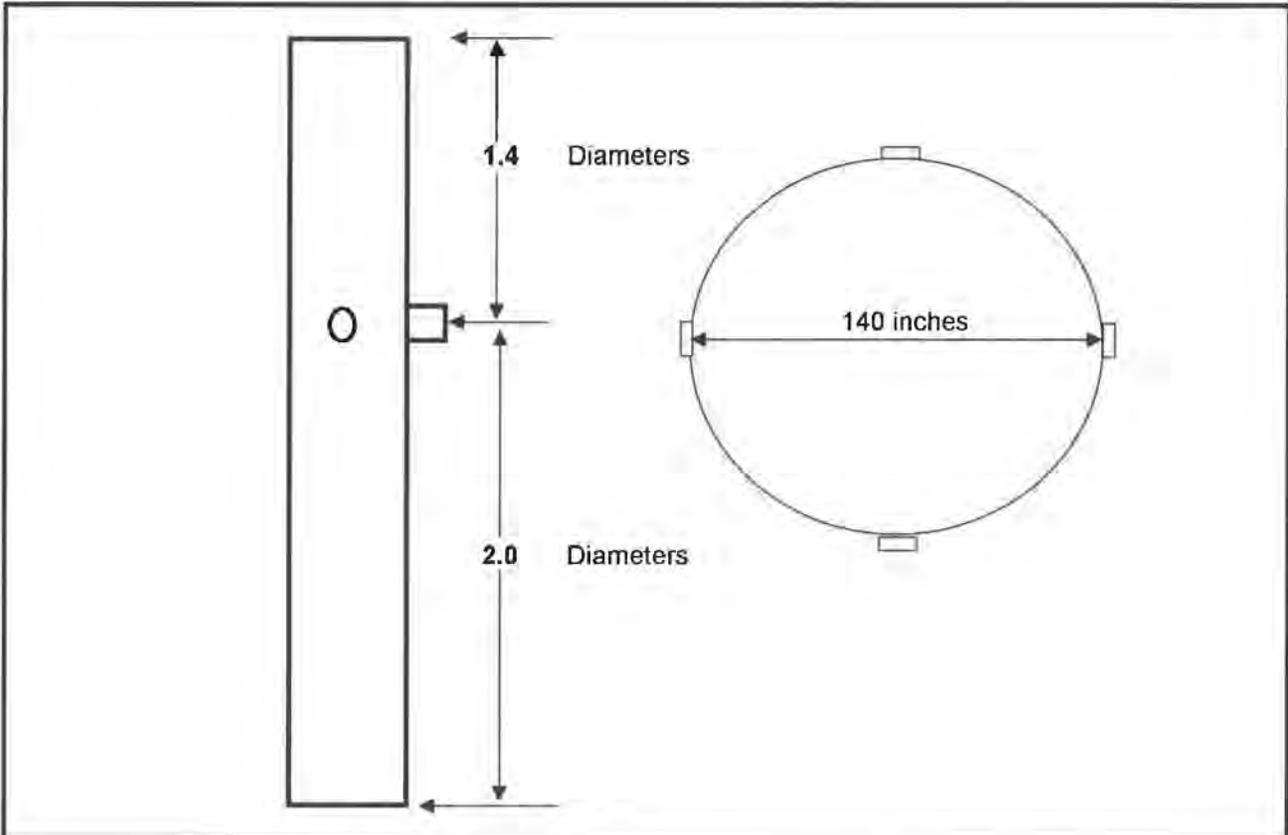
METHOD 1 DATA SHEET SAMPLE LOCATION

Client: SCPPA

Date: 11/5/25

Sample Location: 4

Performed By: PW



Diameter (in.)	<u>140.00</u>
Upstream (ft.)	<u>23.33</u>
Downstream (ft.)	<u>16.50</u>
Coupling (in.)	<u>11.25</u>
Stack Area (ft ²)	<u>106.90</u>

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	6.1	17.3
2	14.6	20.5	31.8
3	29.6	41.4	52.7
4	70.4	98.6	109.8
5	85.4	119.5	130.7
6	95.6	133.9	145.2

Appendix A.2

Sample Data Sheets

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AA MONITOR

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #4 Stack
 DATE: 11/5/2025
 RUN NO: 1-NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 CEMS Heated Line Temp: 300
 CEMS Knock Out Temp: 25
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 70°
 BAROMETRIC PRESSURE: 29.89
 ASSUMED MOISTURE: 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE: 6.005 CFM@ 15 in. Hg
 POST-TEST LEAK RATE: 6.005 CFM@ 13 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	927.8	735.3	192.5	2.2
2	0.1 N H ₂ SO ₄	754.9	754.3	0.6	2.2
3	Empty	644.9	644.8	0.1	
4	Silica Gel	1003.8	996.2	7.6	
LR			100mL	-100	
Total:				100.8	

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3	1550	194.800	N/A	1.0	N/A	N/A	N/A	58	N/A	73	3	N/A
2	1555	197.880						55		73	3	
1	1500	200.890						52		73	3	
P.C.	1605	203.905						.		.	.	
3	1607	203.905						52		73	3	
2	1612	206.910						52		73	3	
1	1617	209.900						52		74	3	
P.C.	1622	212.890						.		.	.	
3	1624	212.890						52		73	3	
2	1629	215.850						52		73	3	
1	1634	218.840						53		73	3	
P.C.	1639	221.790						.		.	.	
3	1641	221.790						54		73	3	
2	1646	224.750						54		73	3	
1	1651	227.725						53		73	3	
END	1656	230.650						.		.	.	
Average:		35.850								73.1		

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

W002AS-061073-RT-8002

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AA MONTR

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #4 Stack
 DATE: 11/5/2025
 RUN NO: 2-NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 CEMS Heated Line Temp: 300
 CEMS Knock Out Temp: 0.5
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE: 64°
 BAROMETRIC PRESSURE: 29.88
 ASSUMED MOISTURE: 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE: <0.005 CFM@ 15 in. Hg
 POST-TEST LEAK RATE: <0.005 CFM@ 12 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. #	Contents	Post-Test	Pre-Test	Difference	pH
1	0.1 N H ₂ SO ₄	923.9	741.1	182.8	6.2
2	0.1 N H ₂ SO ₄	740.9	739.2	1.7	6.2
3	Empty	656.2	656.5	-0.3	
4	Silica Gel	957.8	950.3	7.5	
LR:		100mL		-100	
Total:				91.7	

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3	1740	232.200	N/A	1.0	N/A	N/A	N/A	56	N/A	71	3	N/A
2	1745	235.105						53		71	3	
1	1750	237.970						50		71	3	
P.C.	1755	240.795						-		-	-	
3	1757	240.795						52		70	3	
2	1802	243.620						50		70	3	
1	1807	246.460						50		70	3	
P.C.	1812	249.255						-		-	-	
3	1814	249.255						50		70	3	
2	1819	252.115						51		71	3	
1	1824	255.000						52		71	3	
P.C.	1829	257.790						-		-	-	
3	1831	257.790						52		70	3	
2	1836	260.610						52		70	3	
1	1841	263.410						52		70	3	
END	1846	266.220						-		-	-	
Average:		34.020								70.4		

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

W002AS-061073-RT-8002

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AA MONTR

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: SCPPA
 LOCATION: Canyon Unit #4 Stack
 DATE: 11/5/2025
 RUN NO: FB -NH3
 OPERATOR: Phillip Caro
 METER BOX NO: 48-WCS
 METER Yd: 1.002
 CEMS Heated Line Temp:
 CEMS Knock Out Temp:
 Check Weight: 500.0/500.0

AMBIENT TEMPERATURE:
 BAROMETRIC PRESSURE:
 ASSUMED MOISTURE : 10%
 PITOT TUBE COEFF, Cp: N/A
 PROBE ID NO/MATERIAL: Titanium
 PROBE LENGTH: 7'
 PRE-TEST LEAK RATE : 0.005 CFM@ 15 in. Hg
 POST-TEST LEAK RATE : 0.005 CFM@ 12 in. Hg
 PITOT LEAK CHECK - PRE: N/A POST: N/A

Imp. # Contents Post-Test - Pre-Test = Difference pH
 1 0.1 N H₂SO₄ 832.4 734.7
 2 0.1 N H₂SO₄ 753.0 753.0
 3 Empty 645.5 645.5
 4 Silica Gel 996.2 996.2
 LR : 100mL
 Total:

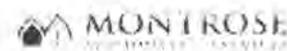
Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	Pstatic in. H ₂ O
3			N/A	1.0	N/A	N/A	N/A		N/A			N/A
2												
1												
P.C.												
3												
2												
1												
P.C.												
3												
2												
1												
P.C.												
3												
2												
1												
END												
Average:												

Comments: NH3 Sample Points: 52.7", 31.8", 17.3"

Appendix A.3 Laboratory Data

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS CALCULATION DATA

District Method: SCAQMD 207.1



Project Number: PROJ-061073
 Client/Location: SCPPA
 Sample Location: Canyon Unit 4
 Sample Date: 11/5/2025
 Analysis Date: 11/5/2025
 Analyst's Initials: IG

Calibration Curve Slope: -56.0348
 Y-intercept: 96.6348
 R²: 0.9993
 Thermometer #: 1
 ISE Electrode #: 2

Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Conc. µg NH ₃ -N/ml	C _{avg} as N	C _{avg} as NH ₃	µg NH ₃ /sample	Result µg NH ₃ /sample*
Standard Check: 28 µg NH ₃ -N/ml	NA	20.8	14.9	28.750	29.109	35.384	NA	NA
		20.8	14.3	29.468				
1-NH ₃	500	19.6	84.9	1.620	1.616	1.965	982.371	982.371
		19.5	85.0	1.613				
2-NH ₃	500	19.5	86.4	1.523	1.498	1.821	910.580	910.580
		19.4	87.2	1.474				
Spike 1-NH ₃	NA	19.7	23.0	20.611	20.611	25.053	NA	NA
		19.7	23.0	20.611				
Standard Check: 28 µg NH ₃ -N/ml	NA	20.8	15.7	27.821	27.993	34.027	NA	NA
		20.8	15.4	28.166				
Reagent Blank 0.1N H ₂ SO ₄	NA	21.2	168.9	0.051	0.051	0.062	NA	NA
		21.1	169.6	0.050				
DI H ₂ O Blank	NA	19.9	182.4	0.029	0.029	0.035	NA	NA
		19.7	183.1	0.029				
Field Blank	500	20.2	153.0	0.099	0.097	0.118	59.109	NA
		20.1	153.7	0.096				
Standard Check: 28 µg NH ₃ -N/ml	NA	20.5	15.5	28.050	28.519	34.666	NA	NA
		20.4	14.7	28.988				

Notes:

- Measured Concentration of Ammonia (C) in ug NH₃-N/ml.
 - $C = 10^{(P-B)/M}$, P = electrode potential (mV), M=slope and B=intercept.
 - Average Measured Ammonia Concentration (C_{avg}) = (C₁ + C₂)/2 where C₁, C₂ are results from duplicate analyses (ug NH₃/ml as N).
 - C_{avg} (ug NH₃-N/ml) = C_{avg} (ug NH₃-N/ml) * 17.03/14.01.
 - ug NH₃ / sample = C_{avg} (ug NH₃-N/ml) * TV.
 - Used 100 ml of samples and standards with 2 ml ISA and constant stirring rate, analyzed in duplicate.
 - Sample pH and temperatures can be found on the laboratory datasheet.
 - Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
 - All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
 - All calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
 - Sample solutions, blanks and C.V. Standard temperature must be within ± 2°C.
 - Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
 - Reporting Limit (RL) based on lowest concentration on calibration curve and Total Sample Volume.
 - * Result = greater of µg NH₃/sample or RL
- RL = 1(ug/mL)*TV(mL)*(17.03/14.01)
 RL (1-NH₃) = 607.78 µg NH₃/sample
 RL (2-NH₃) = 607.78 µg NH₃/sample

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS QUALITY CONTROL

District Method: SCAQMD 207.1

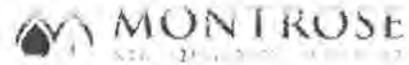
Project Number: PROJ-061073Client/ Location: SCPPASample Location: Canyon Unit 4Sample Date: 11/5/2025Analysis Date: 11/5/2025Analyst's Initials: IG

Sample	Recovery (%)	RPD (%)	RPA (%)
Standard Check: 28 µg NH ₃ -N/ml	NA	-2.47	3.961
1-NH3	NA	0.41	NA
2-NH3	NA	3.29	NA
Spike 1-NH3	98.93	0.00	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	-1.23	-0.025
Reagent Blank 0.1N H ₂ SO ₄	NA	2.88	NA
DI H ₂ O Blank	NA	2.88	NA
Field Blank	NA	2.88	NA
Standard Check: 28 µg NH ₃ -N/ml	NA	-3.29	1.853

Notes:

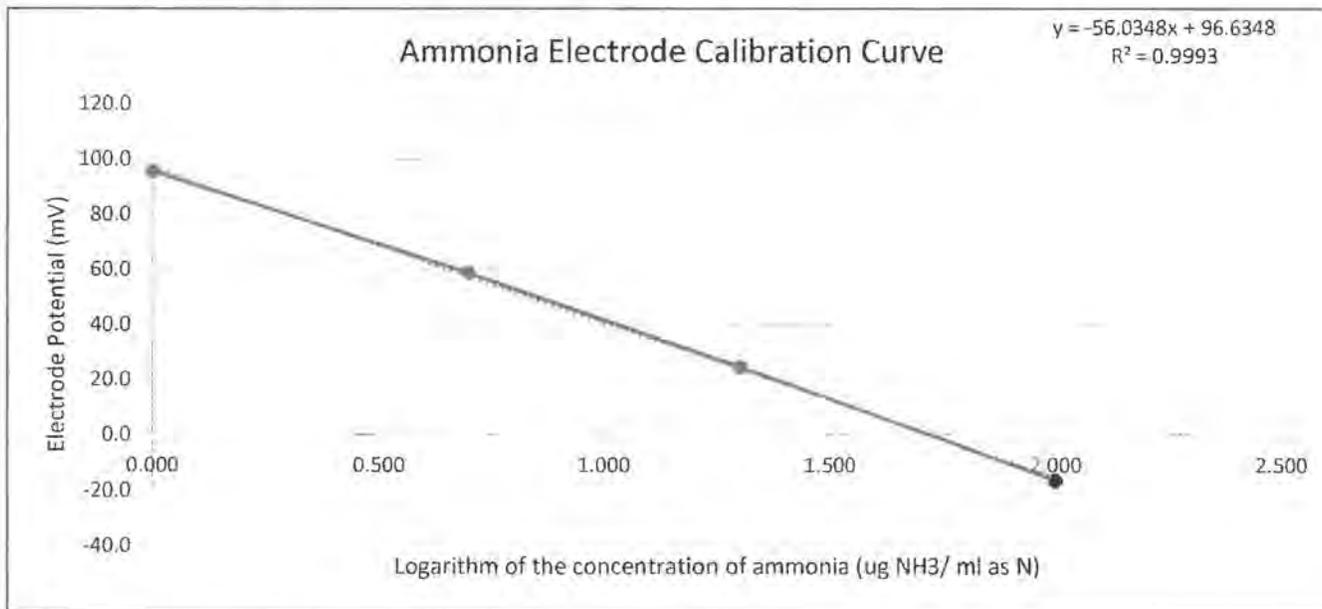
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- Matrix Spike Percent Recovery (%R).
- %R = $(C_{\text{spike}} * 0.104 - C_{\text{sample}} * 0.102) / 2 * 100$.
- C_{spike} = average result of matrix spike (ug NH₃-N/ml).
- Relative Percent Difference (RPD) = $(C_1 - C_2) / C_{\text{avg}} * 100$ (must be 5% or less).
- Relative Percent Accuracy (RPA) (must be 10% or less).
- RPA = $(C_{\text{avg}} - \text{theoretical value of standard}) / \text{theoretical value of standard} * 100$.

AMMONIA ELECTRODE CALIBRATION CURVE DATA



District Method: SCAQMD 207.1
 Date: November 5, 2025
 Project Number: PROJ-061073
 Client/Location: SCPPA

NH ₃ concentration (µg NH ₃ -N/ml)	Log NH ₃ concentration	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	0.000	95.5	20.3	20.3
5	0.699	58.8	20.2	
20	1.301	24.5	20.2	
100	2.000	-16.4	20.8	



Slope	Y-Intercept	R ²
-56.0348	96.6348	0.9993

NH ₃ concentration (µg NH ₃ -N/ml)	Value LR line	Difference	% Difference
1	1.0477	0.0477	4.7737
5	4.7337	-0.2663	-5.3257
20	19.3785	-0.6215	-3.1073
100	104.0457	4.0457	4.0457

Notes:

- Regression Line: $P = M \cdot \log(\mu\text{g of NH}_3 / \text{ml as N}) + B$.
- Measured Concentration of Ammonia (C) in $\mu\text{g NH}_3$ as N/ml : $C = 10^{(P-B)/M}$ where P = electrode potential, M= slope and B= intercept.
- All standards are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.
- Calibration solution temperature must be within ± 2°C.

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS DATA



District Method: SCAQMD 207.1

Project Number: P20J-061073
 Client/Location: SCPPA
 Sample Location: Carson Unit 4
 Sample Date: 11/5/2025
 Analysis Date: 11/5/2025

Calibration Curve: $-56.0348x + 96.6348$
 R^2 : 0.9993
 Thermometer #: 1
 ISE Electrode #: 2
 Analyst's Initials: IG

NH ₃ concentration (µg NH ₃ -N/ml)	Electrode Potential (mV)	Sample Temperature (°C)	Room Temperature (°C)
1	95.5	20.3	20.3
5	58.6	20.2	
20	24.5	20.2	
100	-16.4	20.8	

Sample	Total Volume (ml)	Sample Temperature (°C)	Electrode Potential (mV)	Blue after ISA (Y/N)	pH
Standard Check: 28 µg NH ₃ -N/ml	NA	20.8	14.9	Y	NA
		20.8	14.3	Y	
1-NH ₃	500	19.6	84.9	Y	L2
		19.5	85.0	Y	
2-NH ₃	500	19.5	86.4	Y	L2
		19.4	87.2	Y	
Spike: 1-NH ₃	NA	19.7	23.0	Y	NA
		19.7	23.0	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	20.8	15.7	Y	NA
		20.8	15.4	Y	
Reagent Blank 0.1N H ₂ SO ₄	NA	21.2	168.9	Y	NA
		21.1	169.6	Y	
DI H ₂ O Blank	NA	19.9	182.4	Y	NA
		19.7	183.1	Y	
Field Blank	500	20.2	153.0	Y	L2
		20.1	153.7	Y	
Standard Check: 28 µg NH ₃ -N/ml	NA	20.5	15.5	Y	NA
		20.4	15.14.7	Y	

#IG 11/5/25

Notes:

- Used 100 ml of samples or standards with 2 ml ISA and constant stirring rate.
- Spike: 100 ml sample + 2 ml 1000ppm NH₃ as N.
- All calibration solution and calibration verification standard (C.V.) are prepared in 0.04N H₂SO₄ and allowed to equilibrate to room temperature.
- All samples are collected in 0.1N H₂SO₄ and allowed to equilibrate to room temperature.
- All solutions turned blue and remained blue with ISA unless otherwise indicated.
- Maximum number of samples (including blanks) between 28 ug/ml check standard is 5 samples analyzed in duplicate.
- All samples must have a pH of less than 2.
- Sample solutions, calibration solution and C.V. standard temperature must be within ± 2°C of one another.
- Slope of calibration curve must be between -54 and -60.
- R² must be 0.997 or greater.

Appendix A.4 QA/QC Data

Barometric Pressure Determination	
Date: <u>11/5/2025</u>	
Data By: <u>Patrick Whitman</u>	
Reference: https://forecast.weather.gov/MapClick.php?lon=-117.85962867946365&lat=33.863355545614255	
Reference Barometer ID	FW0063 Fullerton CSU (F0063)
Reference Barometer Location	Lat: 33.8805°N Lon: 117.88417°W Elev: 247ft.
Reference Barometer Other Info.	05 Nov 01:23 PM PST
Reference Barometer Indication, corrected to sea	30.22
Reference Barometer Reference Elevation	247
Reference Barometer Actual Pressure	29.97
Test Barometer Location/Site	Canyon Power Plant
Location/Site Elevation	279
Location/Site Barometric Pressure	29.94
Sampling Location Height (above/below site elevation)	60
Sampling Location Barometric Pressure	29.88

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Model #: C-5000
 ID #: 48 - WGS
 Date: 10/1/2025
 Bar. Pressure: 29.92 (in. Hg)
 Performed By: P. Caro
 Reviewed By: S. Adhikari

DRY GAS METER READINGS								CRITICAL ORIFICE READINGS			Ambient Temperature			
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Initial Temps. Inlet (deg F)	Initial Temps. Outlet (deg F)	Final Temps. Inlet (deg F)	Final Temps. Outlet (deg F)	Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Final (deg F)	Average (deg F)
0.14	26.00	698.100	703.705	5.605	85.0	85.0	85.0	85.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.14	26.00	703.705	709.310	5.605	85.0	85.0	86.0	86.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.14	26.00	709.310	714.920	5.610	88.0	88.0	86.0	86.0	14742-33	0.1621	18.0	73.0	73.0	73.0
0.68	12.00	688.800	688.330	5.530	82.0	83.0	83.0	84.0	PK-48	0.3479	17.0	73.0	73.0	73.0
0.68	12.00	688.330	691.865	5.535	83.0	84.0	84.0	84.0	PK-48	0.3479	17.0	73.0	73.0	73.0
0.68	12.00	691.865	697.410	5.545	84.0	84.0	84.0	84.0	PK-48	0.3479	17.0	73.0	73.0	73.0
1.90	7.00	663.500	669.770	5.270	78.0	80.0	80.0	80.0	PK-63	0.5703	16.0	72.0	72.0	72.0
1.90	7.00	668.770	674.040	5.270	80.0	80.0	80.0	80.0	PK-63	0.5703	16.0	72.0	73.0	72.5
1.90	7.00	674.040	679.320	5.280	80.0	82.0	82.0	82.0	PK-63	0.5703	16.0	73.0	73.0	73.0
3.80	5.00	641.000	646.190	5.190	75.0	75.0	75.0	75.0	PK-73	0.7909	15.0	72.0	72.0	72.0
3.80	5.00	646.190	651.385	5.175	75.0	76.0	76.0	76.0	PK-73	0.7909	15.0	72.0	72.0	72.0
3.80	5.00	651.385	656.535	5.170	76.0	76.0	76.0	76.0	PK-73	0.7909	15.0	72.0	72.0	72.0

DRY GAS METER		ORIFICE		DRY GAS METER CALIBRATION FACTOR		ORIFICE CALIBRATION FACTOR		Individual Run	Individual Orifice	Orifice Average	Orifice Average
VOLUME CORRECTED Vm(std) (cu ft)	VOLUME CORRECTED Vm(std) (liters)	VOLUME CORRECTED Vcr(std) (cu ft)	VOLUME CORRECTED Vcr(std) (liters)	VOLUME NOMINAL Vcr (cu ft)	Y Value (number)	dH@ Value (in H2O)	dH@ Value (in H2O)	0.95 < Y < 1.05?	Ymax - Ymin < 0.010?	0.98 < Y/Yd < 1.02?	dH@ - dH@ av < 0.155?
5.430	153.8	5.462	154.7	5.518	1.008	1.729	1.729	Pass			
5.425	153.6	5.462	154.7	5.518	1.007	1.727	1.727	Pass			
5.425	153.6	5.462	154.7	5.518	1.007	1.728	1.728	Pass			
Average					1.007	1.727	1.727		Pass	Pass	Pass
5.389	152.6	5.410	153.2	5.464	1.004	1.831	1.831	Pass			
5.384	152.5	5.410	153.2	5.464	1.005	1.828	1.828	Pass			
5.389	152.6	5.410	153.2	5.464	1.004	1.826	1.826	Pass			
Average					1.004	1.828	1.828		Pass	Pass	Pass
5.184	146.8	5.179	146.7	5.220	0.999	1.913	1.913	Pass			
5.175	146.6	5.176	146.6	5.222	1.000	1.911	1.911	Pass			
5.175	146.8	5.174	146.5	5.225	1.000	1.909	1.909	Pass			
Average					1.000	1.911	1.911		Pass	Pass	Pass
5.165	146.3	5.130	145.3	5.171	0.993	1.899	1.899	Pass			
5.146	145.7	5.130	145.3	5.171	0.997	1.897	1.897	Pass			
5.136	145.4	5.130	145.3	5.171	0.999	1.895	1.895	Pass			
Average					0.996	1.897	1.897		Pass	Pass	Pass

Average Yd: 1.002 dH@: 1.841
 Q @ dH = 1: 0.583

Performed by signature: P. Caro

Reviewed by signature: S. Adhikari

Note: Control box not equipped with meter inlet temperature reading.

Date: 10/1/25

Date: 10/1/2025



DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 48-WCS
 Readout Description: Control box
 Date: 7/2/2025
 Performed By: PR/PC

Calibrated Thermocouple ID: TC-Cal
 T1 Reference Thermometer ID: 2736
 T2 Reference Thermometer ID: 2788
 T3 Reference Thermometer ID: 0425-3218

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~370 F)	48-WCS	371	370	371	371	370	370	370	370	0.7	0.1%	Pass
T2 (~212 F)	48-WCS	213	212	213	213	212	212	212	212	0.7	0.1%	Pass
T1 (~32 F)	48-WCS	36	36	35	36	32	32	32	32	3.7	0.7%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Thermocouple Source Readings

T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference			
	Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
T4 (~650 F)	129462	652	652	651	652	650	650	650	650	1.7	0.2%	Pass
T3 (~370 F)	129462	368	367	368	368	370	370	370	370	2.3	0.3%	Pass
T2 (~212 F)	129462	211	211	211	211	212	212	212	212	1.0	0.1%	Pass
T1 (~32 F)	129462	30	30	30	30	32	32	32	32	2.0	0.4%	Pass

- 1) Difference % (°R) = Difference (°F) / (Average Tref + 460)
- 2) Pass if all Differences are less than 1.5% (°R)

Quarterly Thermometer Calibration Data Form

Temperature Reference: Manufacturer: <u>ThermCo</u> Serial Number: <u>A 98-289</u> Reference Thermometer Calibration Expiration: <u>Mercury (N/A)</u>	Calibration: Temp. instrument Calibration Date: <u>October 10, 2025</u> Cal by: <u>IG</u>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------

Thermometer Manufacturer: <u>Thermo Scientific</u>					Status: <u>Pass</u>						
Serial Number: <u>Probe #1 (BPI-11933)</u>											
Reading	Iced Water (°F)		Average (°F)		% (°R)	Reading	Room Temp Water (°F)		Average (°F)		% (°R)
	T _{ref}	T	T _{ref}	T	ΔT		T _{ref}	T	T _{ref}	T	ΔT
1 st min	41.4	42.3	41.2	42.2	0.2	1 st min	69.8	69.1	69.7	69.2	0.1
2 nd min	41.0	42.1				2 nd min	69.6	69.3			

- 1) Calibrations follow Chapter III of SCAQMD Source Test Manual
- 2) $\Delta T (^{\circ}R) = (ABS((T_{ref} (^{\circ}F) + 459.67) - (T (^{\circ}F) + 459.67))) / (AVERAGE(T_{ref} (^{\circ}F) \& T (^{\circ}F)) + 459.67) * 100$
- 3) Pass if all Differences are less than 1.5% (°R)

SCAQMD METHOD 207.1 - AMMONIA DETERMINATION OF SAMPLE TIME

Source: Canyon 4
Date: 11/5/2025
Performed by: PW

Constants:

	1,000	mg/gram
	454	grams/lb
	35.315	SCF/SCM
	379.5	SCF/lb-mole
	1,000,000	parts/million parts
MW _{NH3}	17.03	lb/lb-mole
MW _{N2}	14.01	lb/lb-mole

Variables:

Target concentration	5	ppm @ O ₂ correction factor
O ₂ correction factor	15	% O ₂
Expected Flue Gas O ₂	14.5	% O ₂
F	2	Safety Factor
P	128.5	electrode potential corresponding to minimum value on calibration curve (mV)
B	128.83	y-intercept
M	-58.676	slope
V _r	0.5	Assumed liquid volume of probe rinse and first impinger (L)
Q @ dH = 1	0.55	cfm

Calculated Values:

Target concentration	5.4	ppm - raw
Target concentration	3.90	mg/dscm
C ₁	1.013	Lowest concentration on a calibration curve (mg NH ₃ -N/L)
RL	0.616	analytical mass reporting limit, mg
PSV	0.316	Planned sample volume, cubic meters
PSV	11.144	Planned sample volume, cubic feet
VSR	33.0	achievable volumetric sampling rate (dscf/hr)

PST	20.3	Planned sample time, minutes (minimum)
------------	-------------	-----------------------------------------------

Notes:

- 1) A minimum of 1 hour sample time is required for any mass per hour limits.
- 2) Facility Permit or Rule may specify sample time

APPENDIX B FACILITY CEMS DATA

Average Values Report
Generated: 11/5/2025 20:44

R1-NH3-41

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.,
City/St: Anaheim, CA, 92806
Source: 4

Period Start: 11/5/2025 15:51
Period End: 11/5/2025 16:56
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

W002AS-061073-RT-8002

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Period Start:	Average 4_O2 %	Average 4_NOXPPM ppm	Average 4_NOX_CORR ppm	Average 4_NOX_LBMM #/MBTU	Average 4_NOX_LBHR #/hr	Average 4_COPPM ppm	Average 4_CO_CORR ppm	Average 4_CO_LBHR #/hr	Average 4_CO_LBMM #/MBTU	Average 4_GasFlow kscfh	Average 4_LOAD MW	Average 4_STACFLW kscfm
11/05/2025 15:51	14.67	2.46	2.33	0.009	4.50	3.87	3.67	4.10	0.0082	475.8	49.09	243.3
11/05/2025 15:52	14.67	2.46	2.33	0.009	4.49	3.87	3.67	4.09	0.0082	475.4	48.99	243.1
11/05/2025 15:53	14.67	2.47	2.34	0.009	4.49	3.87	3.67	4.09	0.0082	475.2	49.07	243.0
11/05/2025 15:54	14.67	2.48	2.35	0.009	4.49	3.86	3.66	4.09	0.0082	475.1	49.11	243.0
11/05/2025 15:55	14.67	2.48	2.35	0.009	4.49	3.85	3.65	4.10	0.0082	475.6	49.21	243.2
11/05/2025 15:56	14.66	2.47	2.34	0.009	4.49	3.84	3.63	4.04	0.0081	475.5	49.12	242.8
11/05/2025 15:57	14.66	2.46	2.33	0.009	4.49	3.85	3.64	4.10	0.0082	475.6	48.99	242.8
11/05/2025 15:58	14.66	2.47	2.34	0.009	4.49	3.85	3.64	4.09	0.0082	475.4	49.01	242.7
11/05/2025 15:59	14.66	2.46	2.33	0.009	4.49	3.85	3.64	4.09	0.0082	475.2	49.03	242.6
11/05/2025 16:00	14.66	2.46	2.33	0.009	4.49	3.86	3.65	4.09	0.0082	475.2	49.12	242.6
11/05/2025 16:01	14.66	2.47	2.34	0.009	4.49	3.88	3.67	4.09	0.0082	475.4	49.09	242.7
11/05/2025 16:02	14.67	2.48	2.35	0.009	4.49	3.90	3.69	4.14	0.0083	475.1	49.22	243.0
11/05/2025 16:03	14.67	2.47	2.34	0.009	4.49	3.92	3.71	4.15	0.0083	475.6	49.09	243.2
11/05/2025 16:04	14.67	2.47	2.34	0.009	4.49	3.93	3.72	4.14	0.0083	475.2	49.11	243.0
11/05/2025 16:05	14.67	2.47	2.34	0.009	4.49	3.93	3.72	4.14	0.0083	475.3	49.08	243.1
11/05/2025 16:06	14.67	2.46	2.33	0.009	4.49	3.93	3.72	4.15	0.0083	475.6	49.04	243.2
11/05/2025 16:07	14.67	2.45	2.32	0.009	4.49	3.92	3.71	4.14	0.0083	475.2	49.07	243.0
11/05/2025 16:08	14.67	2.46	2.33	0.009	4.49	3.94	3.73	4.19	0.0084	475.3	49.16	243.1
11/05/2025 16:09	14.67	2.46	2.33	0.009	4.50	3.95	3.74	4.20	0.0084	475.7	49.21	243.3
11/05/2025 16:10	14.67	2.45	2.32	0.009	4.49	3.95	3.74	4.19	0.0084	475.4	49.05	243.1
11/05/2025 16:11	14.67	2.47	2.34	0.009	4.49	3.94	3.73	4.19	0.0084	475.5	49.17	243.2
11/05/2025 16:12	14.67	2.50	2.37	0.009	4.49	3.94	3.73	4.19	0.0084	475.2	49.15	243.0
11/05/2025 16:13	14.67	2.50	2.37	0.009	4.49	3.94	3.73	4.19	0.0084	475.6	49.09	243.2
11/05/2025 16:14	14.67	2.50	2.37	0.009	4.50	3.94	3.73	4.20	0.0084	475.7	49.14	243.3
11/05/2025 16:15	14.67	2.49	2.36	0.009	4.49	3.95	3.74	4.19	0.0084	475.2	49.02	243.0
11/05/2025 16:16	14.67	2.49	2.36	0.009	4.49	3.95	3.74	4.19	0.0084	475.3	49.13	243.1
11/05/2025 16:17	14.67	2.48	2.35	0.009	4.49	3.96	3.75	4.19	0.0084	475.0	49.02	242.9
11/05/2025 16:18	14.67	2.48	2.35	0.009	4.49	3.97	3.76	4.19	0.0084	475.0	49.10	242.9
11/05/2025 16:19	14.67	2.49	2.36	0.009	4.49	3.99	3.78	4.24	0.0085	474.9	49.08	242.8
11/05/2025 16:20	14.67	2.49	2.36	0.009	4.49	4.00	3.79	4.24	0.0085	475.4	49.18	243.1
11/05/2025 16:21	14.67	2.49	2.36	0.009	4.49	4.00	3.79	4.24	0.0085	475.0	49.05	242.9
11/05/2025 16:22	14.67	2.48	2.35	0.009	4.49	3.99	3.78	4.24	0.0085	475.2	49.05	243.0
11/05/2025 16:23	14.67	2.48	2.35	0.009	4.49	3.99	3.78	4.24	0.0085	474.7	49.08	242.7
11/05/2025 16:24	14.67	2.48	2.35	0.009	4.49	3.98	3.77	4.24	0.0085	474.9	49.15	242.8
11/05/2025 16:25	14.67	2.48	2.35	0.009	4.49	3.98	3.77	4.24	0.0085	475.6	49.05	243.2
11/05/2025 16:26	14.67	2.48	2.35	0.009	4.49	3.98	3.77	4.24	0.0085	475.5	49.08	243.2
11/05/2025 16:27	14.67	2.50	2.37	0.009	4.49	3.95	3.74	4.19	0.0084	475.3	49.15	243.1
11/05/2025 16:28	14.67	2.50	2.37	0.009	4.49	3.94	3.73	4.19	0.0084	474.9	49.07	242.8
11/05/2025 16:29	14.67	2.49	2.36	0.009	4.49	3.93	3.72	4.14	0.0083	475.0	49.01	242.9
11/05/2025 16:30	14.67	2.49	2.36	0.009	4.49	3.93	3.72	4.14	0.0083	475.2	49.06	243.0
11/05/2025 16:31	14.67	2.50	2.37	0.009	4.49	3.93	3.72	4.14	0.0083	474.7	49.13	242.7
11/05/2025 16:32	14.67	2.51	2.38	0.009	4.49	3.94	3.73	4.19	0.0084	475.1	49.17	243.0
11/05/2025 16:33	14.67	2.52	2.39	0.009	4.49	3.94	3.73	4.19	0.0084	475.3	49.09	243.1
11/05/2025 16:34	14.66	2.53	2.39	0.009	4.49	3.94	3.73	4.19	0.0084	475.0	49.16	242.5
11/05/2025 16:35	14.65	2.53	2.39	0.009	4.49	3.94	3.72	4.14	0.0083	475.3	49.23	242.3
11/05/2025 16:36	14.65	2.51	2.37	0.009	4.49	3.97	3.75	4.19	0.0084	475.6	49.10	242.4
11/05/2025 16:37	14.65	2.50	2.36	0.009	4.49	4.00	3.78	4.24	0.0085	475.5	49.18	242.4
11/05/2025 16:38	14.66	2.51	2.37	0.009	4.49	4.00	3.78	4.24	0.0085	475.4	49.04	242.7
11/05/2025 16:39	14.65	2.50	2.36	0.009	4.49	3.98	3.76	4.19	0.0084	475.3	49.10	242.3
11/05/2025 16:40	14.66	2.50	2.36	0.009	4.49	4.00	3.78	4.24	0.0085	475.6	49.03	242.8
11/05/2025 16:41	14.66	2.48	2.34	0.009	4.49	4.02	3.80	4.24	0.0085	475.5	48.98	242.8
11/05/2025 16:42	14.66	2.46	2.33	0.009	4.49	4.04	3.82	4.29	0.0086	475.4	49.08	242.7

W002AS-061073-RT-8002

Period Start:	Average 4_O2 %	Average 4_NOXPPM ppm	Average 4_NOX_CORR ppm	Average 4_NOX_LBMM #/MBTU	Average 4_NOX_LBHR #/hr	Average 4_COPPM ppm	Average 4_CO_CORR ppm	Average 4_CO_LBHR #/hr	Average 4_CO_LBMM #/MBTU	Average 4_GasFlow kscfh	Average 4_LOAD MW	Average 4_STACKFLW kscfm
11/05/2025 16:43	14.65	2.45	2.31	0.009	4.49	4.05	3.82	4.29	0.0086	475.4	49.01	242.3
11/05/2025 16:44	14.65	2.44	2.30	0.008	4.00	4.06	3.83	4.30	0.0086	475.7	49.08	242.5
11/05/2025 16:45	14.65	2.44	2.30	0.008	3.99	4.06	3.83	4.29	0.0086	475.5	49.10	242.4
11/05/2025 16:46	14.64	2.44	2.30	0.008	3.99	4.06	3.83	4.29	0.0086	475.4	49.10	241.9
11/05/2025 16:47	14.64	2.45	2.31	0.009	4.50	4.07	3.84	4.30	0.0086	475.9	49.01	242.2
11/05/2025 16:48	14.64	2.45	2.31	0.009	4.50	4.08	3.85	4.30	0.0086	476.1	49.08	242.3
11/05/2025 16:49	14.64	2.43	2.29	0.008	4.00	4.10	3.86	4.35	0.0087	475.9	49.11	242.2
11/05/2025 16:50	14.64	2.42	2.28	0.008	4.00	4.13	3.89	4.35	0.0087	476.0	49.11	242.2
11/05/2025 16:51	14.64	2.43	2.29	0.008	4.00	4.14	3.90	4.40	0.0088	475.9	49.02	242.2
11/05/2025 16:52	14.63	2.43	2.29	0.008	4.00	4.15	3.91	4.40	0.0088	476.1	49.03	241.9
11/05/2025 16:53	14.64	2.44	2.30	0.008	4.00	4.15	3.91	4.40	0.0088	475.8	49.07	242.1
11/05/2025 16:54	14.64	2.45	2.31	0.009	4.50	4.15	3.91	4.40	0.0088	476.4	49.09	242.4
11/05/2025 16:55	14.64	2.45	2.31	0.009	4.50	4.16	3.92	4.40	0.0088	476.2	48.89	242.3
11/05/2025 16:56	14.64	2.45	2.31	0.009	4.50	4.17	3.93	4.40	0.0088	476.5	49.10	242.5
Daily Average*	14.66	2.47	2.34	0.009	4.43	3.97	3.76	4.21	0.0084	475.4	49.09	242.8
Maximum*	14.67	2.53	2.39	0.009	4.50	4.17	3.93	4.40	0.0088	476.5	49.23	243.3
	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025
	16:33	16:35	16:35	16:56	16:56	16:56	16:56	16:56	16:56	16:56	16:35	16:14
Minimum*	14.63	2.42	2.28	0.008	3.99	3.84	3.63	4.04	0.0081	474.7	48.89	241.9
	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025
	16:52	16:50	16:50	16:53	16:46	15:56	15:56	15:56	15:56	16:31	16:55	16:52

* Does not include Invalid Averaging Periods ("N/A")

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Average Values Report
Generated: 11/5/2025 20:45

R2-NH3-4

Company: City Of Anaheim
Plant: 3071 Miraloma Ave.,
City/St: Anaheim, CA, 92806
Source: 4

Period Start: 11/5/2025 17:41
Period End: 11/5/2025 18:46
Validation Type: 1/1 min
Averaging Period: 1 min
Type: Block Avg

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Period Start:	Average 4_O2 %	Average 4_NOXPPM ppm	Average 4_NOX_CORR ppm	Average 4_NOX_LBMM #/MBTU	Average 4_NOX_LBHR #/hr	Average 4_COPPM ppm	Average 4_CO_CORR ppm	Average 4_CO_LBHR #/hr	Average 4_CO_LBMM #/MBTU	Average 4_GasFlow kscfh	Average 4_LOAD MW	Average 4_STACKFLW kscfm
11/05/2025 17:41	14.63	2.42	2.28	0.008	3.99	3.51	3.30	3.69	0.0074	475.5	49.04	241.6
11/05/2025 17:42	14.63	2.43	2.29	0.008	3.99	3.49	3.28	3.69	0.0074	475.4	49.08	241.6
11/05/2025 17:43	14.64	2.43	2.29	0.008	3.99	3.50	3.30	3.69	0.0074	475.4	48.98	241.9
11/05/2025 17:44	14.63	2.42	2.28	0.008	4.00	3.50	3.29	3.70	0.0074	475.8	49.09	241.8
11/05/2025 17:45	14.63	2.42	2.28	0.008	3.99	3.51	3.30	3.69	0.0074	475.4	49.05	241.6
11/05/2025 17:46	14.63	2.44	2.30	0.008	4.00	3.50	3.29	3.70	0.0074	475.7	49.18	241.7
11/05/2025 17:47	14.63	2.44	2.30	0.008	3.99	3.50	3.29	3.69	0.0074	475.5	49.18	241.6
11/05/2025 17:48	14.63	2.44	2.30	0.008	3.99	3.52	3.31	3.69	0.0074	475.1	49.16	241.4
11/05/2025 17:49	14.63	2.43	2.29	0.008	4.00	3.53	3.32	3.75	0.0075	475.6	49.11	241.7
11/05/2025 17:50	14.64	2.42	2.28	0.008	3.99	3.54	3.34	3.74	0.0075	475.1	48.98	241.8
11/05/2025 17:51	14.64	2.42	2.28	0.008	3.99	3.54	3.34	3.74	0.0075	475.0	49.06	241.7
11/05/2025 17:52	14.64	2.42	2.28	0.008	4.00	3.55	3.35	3.75	0.0075	475.6	49.15	242.0
11/05/2025 17:53	14.64	2.41	2.27	0.008	3.99	3.57	3.36	3.74	0.0075	475.1	49.09	241.8
11/05/2025 17:54	14.64	2.41	2.27	0.008	3.99	3.58	3.37	3.79	0.0076	475.4	49.05	241.9
11/05/2025 17:55	14.64	2.43	2.29	0.008	3.99	3.57	3.36	3.74	0.0075	475.2	49.24	241.8
11/05/2025 17:56	14.64	2.43	2.29	0.008	3.99	3.56	3.36	3.74	0.0075	475.2	49.07	241.8
11/05/2025 17:57	14.64	2.42	2.28	0.008	3.99	3.56	3.36	3.74	0.0075	475.3	49.09	241.9
11/05/2025 17:58	14.64	2.43	2.29	0.008	4.00	3.55	3.35	3.75	0.0075	475.7	49.20	242.1
11/05/2025 17:59	14.64	2.44	2.30	0.008	3.99	3.54	3.34	3.74	0.0075	475.3	49.06	241.9
11/05/2025 18:00	14.63	2.44	2.30	0.008	3.99	3.53	3.32	3.74	0.0075	475.3	49.00	241.5
11/05/2025 18:01	14.63	2.43	2.29	0.008	3.99	3.52	3.31	3.69	0.0074	475.5	49.00	241.6
11/05/2025 18:02	14.64	2.44	2.30	0.008	3.99	3.53	3.33	3.74	0.0075	475.1	49.06	241.8
11/05/2025 18:03	14.64	2.45	2.31	0.009	4.49	3.53	3.33	3.74	0.0075	475.2	49.04	241.8
11/05/2025 18:04	14.64	2.45	2.31	0.009	4.49	3.52	3.32	3.69	0.0074	474.8	49.13	241.6
11/05/2025 18:05	14.64	2.45	2.31	0.009	4.49	3.51	3.31	3.69	0.0074	474.9	49.06	241.7
11/05/2025 18:06	14.64	2.44	2.30	0.008	3.99	3.53	3.33	3.74	0.0075	475.0	49.07	241.7
11/05/2025 18:07	14.63	2.44	2.30	0.008	4.00	3.54	3.33	3.75	0.0075	475.6	49.02	241.7
11/05/2025 18:08	14.63	2.44	2.30	0.008	3.99	3.54	3.33	3.74	0.0075	475.1	49.05	241.4
11/05/2025 18:09	14.64	2.43	2.29	0.008	3.99	3.52	3.32	3.69	0.0074	475.1	49.08	241.8
11/05/2025 18:10	14.64	2.43	2.29	0.008	3.99	3.54	3.34	3.74	0.0075	475.4	49.18	241.9
11/05/2025 18:11	14.64	2.44	2.30	0.008	3.99	3.55	3.35	3.74	0.0075	475.3	49.20	241.9
11/05/2025 18:12	14.64	2.44	2.30	0.008	3.99	3.56	3.36	3.74	0.0075	475.5	49.07	242.0
11/05/2025 18:13	14.64	2.45	2.31	0.009	4.49	3.57	3.36	3.74	0.0075	475.1	49.01	241.8
11/05/2025 18:14	14.65	2.43	2.29	0.008	4.00	3.58	3.38	3.80	0.0076	475.8	48.96	242.5
11/05/2025 18:15	14.64	2.43	2.29	0.008	4.00	3.58	3.37	3.80	0.0076	475.6	49.12	242.0
11/05/2025 18:16	14.64	2.45	2.31	0.009	4.49	3.58	3.37	3.79	0.0076	475.5	49.27	242.0
11/05/2025 18:17	14.65	2.45	2.31	0.009	4.49	3.58	3.38	3.79	0.0076	475.0	49.04	242.1
11/05/2025 18:18	14.65	2.44	2.30	0.008	3.99	3.59	3.39	3.79	0.0076	475.3	49.12	242.3
11/05/2025 18:19	14.64	2.43	2.29	0.008	4.00	3.59	3.38	3.80	0.0076	475.6	49.15	242.0
11/05/2025 18:20	14.64	2.43	2.29	0.008	4.00	3.59	3.38	3.80	0.0076	475.8	49.10	242.1
11/05/2025 18:21	14.64	2.42	2.28	0.008	3.99	3.59	3.38	3.79	0.0076	475.4	49.18	241.9
11/05/2025 18:22	14.64	2.42	2.28	0.008	4.00	3.58	3.37	3.80	0.0076	475.6	49.04	242.0
11/05/2025 18:23	14.64	2.43	2.29	0.008	3.99	3.58	3.37	3.79	0.0076	475.4	49.13	241.9
11/05/2025 18:24	14.64	2.43	2.29	0.008	4.00	3.57	3.36	3.75	0.0075	475.7	49.05	242.1
11/05/2025 18:25	14.63	2.43	2.29	0.008	3.99	3.58	3.37	3.79	0.0076	474.9	48.96	241.3
11/05/2025 18:26	14.64	2.42	2.28	0.008	3.99	3.58	3.37	3.79	0.0076	475.4	49.14	241.9
11/05/2025 18:27	14.64	2.42	2.28	0.008	3.99	3.59	3.38	3.79	0.0076	475.4	49.04	241.9
11/05/2025 18:28	14.64	2.42	2.28	0.008	3.99	3.60	3.39	3.79	0.0076	475.4	49.14	241.9
11/05/2025 18:29	14.65	2.43	2.29	0.008	3.99	3.61	3.41	3.79	0.0076	475.4	49.04	242.3
11/05/2025 18:30	14.65	2.44	2.30	0.008	4.00	3.60	3.40	3.80	0.0076	475.7	49.11	242.5
11/05/2025 18:31	14.65	2.45	2.31	0.009	4.49	3.60	3.40	3.79	0.0076	475.1	48.96	242.2
11/05/2025 18:32	14.64	2.45	2.31	0.009	4.50	3.61	3.40	3.80	0.0076	475.8	49.07	242.1

W002AS-061073-RT-8002

Period Start:	Average 4_O2 %	Average 4_NOXPPM ppm	Average 4_NOX_CORR ppm	Average 4_NOX_LEMM #/MBTU	Average 4_NOX_LBHR #/hr	Average 4_COPPM ppm	Average 4_CO_CORR ppm	Average 4_CO_LBHR #/hr	Average 4_CO_LBMM #/MBTU	Average 4_GasFlow kscfh	Average 4_LOAD MW	Average 4_STACKFLOW kscfa
11/05/2025 18:33	14.64	2.45	2.31	0.009	4.49	3.63	3.42	3.85	0.0077	475.6	49.10	242.0
11/05/2025 18:34	14.64	2.47	2.33	0.009	4.50	3.62	3.41	3.85	0.0077	475.9	49.10	242.2
11/05/2025 18:35	14.64	2.47	2.33	0.009	4.49	3.62	3.41	3.84	0.0077	475.3	48.96	241.9
11/05/2025 18:36	14.65	2.47	2.33	0.009	4.49	3.62	3.42	3.84	0.0077	475.3	49.09	242.3
11/05/2025 18:37	14.64	2.46	2.32	0.009	4.49	3.63	3.42	3.84	0.0077	475.2	49.06	241.8
11/05/2025 18:38	14.65	2.46	2.32	0.009	4.49	3.63	3.43	3.84	0.0077	475.4	49.11	242.3
11/05/2025 18:39	14.65	2.46	2.32	0.009	4.49	3.63	3.43	3.84	0.0077	475.4	49.03	242.3
11/05/2025 18:40	14.65	2.45	2.31	0.009	4.49	3.61	3.41	3.80	0.0076	475.6	49.09	242.4
11/05/2025 18:41	14.64	2.43	2.29	0.008	3.99	3.61	3.40	3.79	0.0076	475.3	49.02	241.9
11/05/2025 18:42	14.64	2.42	2.28	0.008	3.99	3.61	3.40	3.79	0.0076	475.5	49.09	242.0
11/05/2025 18:43	14.64	2.42	2.28	0.008	4.00	3.61	3.40	3.80	0.0076	475.6	49.06	242.0
11/05/2025 18:44	14.64	2.42	2.28	0.008	4.00	3.60	3.39	3.80	0.0076	475.7	49.22	242.1
11/05/2025 18:45	14.64	2.43	2.29	0.008	3.99	3.61	3.40	3.79	0.0076	475.5	49.09	242.0
11/05/2025 18:46	14.65	2.44	2.30	0.008	3.99	3.60	3.40	3.79	0.0076	475.3	48.97	242.3
Daily Average*	14.64	2.44	2.30	0.008	4.11	3.57	3.36	3.76	0.0075	475.4	49.08	241.9
Maximum*	14.65	2.47	2.33	0.009	4.50	3.63	3.43	3.85	0.0077	475.9	49.27	242.5
	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025
Minimum*	14.63	2.41	2.27	0.008	3.99	3.49	3.28	3.69	0.0074	474.8	48.96	241.3
	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025	11/05/2025
	18:25	17:54	17:54	18:46	18:46	17:42	17:42	18:09	18:09	18:04	18:35	18:25

* Does not include Invalid Averaging Periods (*N/A*)

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APPENDIX C CALCULATIONS

Appendix C.1

General Emissions Calculations

GENERAL EMISSIONS CALCULATIONS

I. Stack Gas Velocity

A. Stack gas molecular weight, lb/lb-mole

$$MW_{dry} = 0.44 * \% CO_2 + 0.32 * \% O_2 + 0.28 * \% N_2$$

$$MW_{wet} = MW_{dry} * (1 - B_{wo}) + 18 * B_{wo}$$

B. Absolute stack pressure, iwg

$$P_s = P_{bar} + \frac{P_{sg}}{13.6}$$

C. Stack gas velocity, ft/sec

$$V_s = 2.9 * C_p * \sqrt{\Delta P} * \sqrt{T_s} * \sqrt{\frac{29.92 * 28.95}{P_s * MW_{wet}}}$$

II. Moisture

A. Sample gas volume, dscf

$$V_{mstd} = 0.03342 * V_m * \left(P_{bar} + \frac{\Delta H}{13.6} \right) * \frac{T_{ref}}{T_m} * Y_d$$

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{ic} * \frac{T_{ref}}{528^{\circ}R}$$

C. Moisture content, dimensionless

$$B_{wo} = \frac{V_{wstd}}{(V_{mstd} + V_{wstd})}$$

III. Stack Gas Volumetric Flow Rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

$$Q_{sd} = Q * (1 - B_{wo}) * \frac{T_{ref}}{T_s} * \frac{P_s}{29.92}$$

IV. Gaseous Mass Emission Rates, lb/hr

$$M = \frac{\text{ppm} * MW_i * Q_{sd} * 60}{SV * 10^6}$$

V. Emission Rates, lb/MMBtu

$$\frac{\text{lb}}{\text{MMBtu}} = \frac{\text{ppm} * MW_i * F}{SV * 10^6} * \frac{20.9}{20.9 - \% O_2}$$

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1 - B_{wo}) * V_s * P_s * Dn^2} * \frac{528^\circ R}{T_{ref}}$$

VII. Particulate Emissions

(a) Grain loading, gr/dscf

$$C = 0.01543 (M_n / V_{m \text{ std}})$$

(b) Grain loading at 12% CO₂, gr/dscf

$$C_{12\% \text{ CO}_2} = C (12\% \text{ CO}_2)$$

(c) Mass emissions, lb/hr

$$M = C * Q_{sd} * (60 \text{ min/hr}) / (7000 \text{ gr/lb})$$

(d) Particulate emission factor

$$\text{lb}/10^6 \text{ Btu} = Cx \frac{1 \text{ lb}}{7000 \text{ gr}} * F * \frac{20.9}{20.9 - \% O_2}$$

Nomenclature:

A _s	=	stack area, ft ²
B _{w0}	=	flue gas moisture content, dimensionless
C _{12%CO₂}	=	particulate grain loading, gr/dscf corrected to 12% CO ₂
C	=	particulate grain loading, gr/dscf
C _p	=	pitot calibration factor, dimensionless
D _n	=	nozzle diameter, inches
F	=	fuel F-Factor, dscf/MMBtu @ 0% O ₂
H	=	orifice differential pressure, iwg
I	=	% isokinetics
M _n	=	mass of collected particulate, mg
M _i	=	mass emission rate of specie i, lb/hr
MW	=	molecular weight of flue gas, lb/lb-mole
M _{wi}	=	molecular weight of specie i:
		SO ₂ : 64
		NO _x : 46
		CO: 28
		HC: 16
0	=	sample time, minutes
ΔP	=	average velocity head, iwg = $(\sqrt{\Delta P})^2$
P _{bar}	=	barometric pressure, inches Hg
P _s	=	stack absolute pressure, inches Hg
P _{sg}	=	stack static pressure, iwbg
Q	=	wet stack flow rate at actual conditions, wacfm
Q _{sd}	=	dry standard stack flow rate, dscfm
SV	=	specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T _m	=	meter temperature, °R
T _{ref}	=	reference temperature, °R
T _s	=	stack temperature, °R
V _s	=	stack gas velocity, ft/sec
V _{lc}	=	volume of liquid collected in impingers, ml
V _m	=	uncorrected dry meter volume, dcf
V _{mstd}	=	dry meter volume at standard conditions, dscf
V _{wstd}	=	volume of water vapor at standard conditions, scf
Y _d	=	meter calibration coefficient

Appendix C.2

Spreadsheet Summaries

**SCAQMD 207.1 EXAMPLE CALCULATION
TEST NUMBER: 1-NH3**

Identifier	Description	Units	Equation	Value
A	Reference Temperature	F	--	60
B	Reference Temperature	R	A + 460	520
C	Meter Calibration Factor (Yd)	--	--	1.002
D	Barometric Pressure	" Hg	--	29.88
E	Meter Volume	acf	--	35.850
F	Meter Temperature	F	--	73.1
G	Meter Temperature	R	F + 460	533.1
H	Delta H	" H ₂ O	--	1.0
I	Meter Volume (standard)	dscf	$0.03342 * E * (D + H/13.6) * B/G * C$	35.076
J	Liquid Collected	grams	--	100.8
K	Water vapor volume	scf	$0.0472 * J * B/528$	4.686
L	Moisture Content	--	$K/(K + I)$	0.118
M	Gas Constant	ft-lbf/lb-mole-R	--	1545.33
N	Specific Molar Volume	SCF/lb-mole	$385.3 * B / 528$	379.5
O	F-Factor	dscf/MMBtu	--	8,710
P	HHV	Btu/SCF	--	1,050
Q	Mass Conversion Factor	lb/ug	--	2.2046E-09
R	O ₂ Correction Factor	--	--	15
S	Stack Flow Rate @ 68 F	dscfm	--	242,800
T	Stack Flow Rate @ Tref	dscfm	$S * B/528$	239,121
U	Mass NH ₃	ug	--	982
V	Mass NH ₃	lb	$U * Q$	2.17E-06
W	MW of NH ₃	lb/lb-mole	--	17.03
X	NH ₃	ppm	$(V * N * 10^6)/(I * W)$	1.4
Y	Flue Gas O ₂	%	--	14.66
Z	NH ₃	ppmc	$X * (20.9 - R)/(20.9 - Y)$	1.3
AA	NH ₃	lb/hr	$X * T * W * 60/(N * 10^6)$	0.9
AB	NH ₃	lb/MMBtu	$(X * W * O)/(385.3 * 10^6) * 20.9/(20.9 - Y)$	0.002
AC	NH ₃	lb/MMSCF	$AB * P$	1.9

Note:

(1) Some values may be slightly different from those shown on the run sheets due to round off errors. This page is intended to show the calculation methodology only.

SCAQMD METHOD 207.1 DATA WORKSHEET AND SUMMARY

Facility.....	Canyon		Parameter.....	NH₃	
Unit.....	4		Fuel.....	Natural gas	
Sample Location.....	Stack		Data By.....	PW	
Test Number.....	1-NH ₃	2-NH ₃	Average	Maximum ⁽¹⁾	Limit
Reference Temperature (°F).....	60	60			
Test Date.....	11/5/2025	11/5/2025			
Test Method.....	SCAQMD 207.1	SCAQMD 207.1			
Sample Train.....	48-WCS	48-WCS			
Meter Calibration Factor.....	1.002	1.002			
Stack Area (ft ²).....	106.90	106.90			
Sample Time (Minutes).....	60	60			
Barometric Pressure ("Hg).....	29.88	29.88			
Start/Stop Time	1550/1656	1740/1846			
Meter Volume (acf).....	35.850	34.020			
Meter Temperature (°F).....	73.1	70.4			
Meter Pressure (iwg).....	1.0	1.0			
Liquid Volume (ml).....	100.8	91.7			
Stack O ₂ (%).....	14.66	14.64	14.65	(from facility CEMS)	
Unit Load (MW).....	49.1	49.1	49.1		
Standard Sample Volume (SCF).....	35.076	33.455			
Moisture Fraction.....	0.118	0.113			
Stack Flow Rate (dscfm, 68 °F).....	242,800	241,900	242,350	(from facility CEMS)	
Stack Flow Rate (@ Tref).....	239,121	238,235	238,678		
Gas Constant (ft-lbf/lb-mole-R).....	1545.33	1545.33			
Molecular Weight NH ₃ (lb/lb-mole).....	17.03	17.03			
Specific Molar Volume (ft ³ /lb-mole)....	379.5	379.5			
F-Factor (dscf/MMBtu).....	8,710	8,710			
HHV(Btu/SCF).....	1,050	1,050			
Mass Conversion (lb/ug).....	2.2046E-09	2.2046E-09			
O ₂ Correction Factor (%).....	15	15			
Mass NH ₃ (ug) ⁽²⁾	982.371	910.580			
Mass NH ₃ (lb).....	2.17E-06	2.01E-06			
NH ₃ (ppmv, flue gas).....	1.4	1.3	1.4	1.4	
NH ₃ (ppmv @ O ₂ Correction Factor)..	1.3	1.3	1.3	1.3	5
NH ₃ (lb/hr).....	0.9	0.9	0.9	0.9	
NH ₃ (lb/MMBtu).....	0.002	0.002	0.002	0.002	
NH ₃ (lb/MMSCF).....	1.9	1.8	1.8	1.9	

(1) SCAQMD Method 207.1 requires the higher of the duplicate runs be reported as the test result.

(2) Analytical results below Reporting Limit (RL) are reported at RL.

1-NH3

Point	Meter Volume	Delta H	Tm In	Tm Out
6	194.800	1.0		73
5				73
4				73
3				73
2				73
1				74
Stop				
6				73
5				73
4				73
3				73
2				73
1				73
Stop	230.650			
Result	35.850	1.0		73.1

Impinger Weights

#	Post-Test	Pre-Test	Difference
1	927.8	735.3	192.5
2	754.9	754.3	0.6
3	644.9	644.8	0.1
4	1003.8	996.2	7.6
Line Rinse	0.0	100.0	-100.0
			100.8

2-NH3

Point	Meter Volume	Delta H	Tm In	Tm Out
6	232.200	1.0		71
5				71
4				71
3				70
2				70
1				70
Stop				
6				70
5				71
4				71
3				70
2				70
1				70
Stop	266.220			
Result	34.020	1.0		70.4

Impinger Weights

#	Post-Test	Pre-Test	Difference
1	923.9	741.1	182.8
2	740.9	739.2	1.7
3	656.2	656.5	-0.3
4	957.8	950.3	7.5
Line Rinse	0.0	100.0	-100.0
			91.7

APPENDIX D QUALITY ASSURANCE

Appendix D.1

Quality Assurance Program Summary

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, is 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)
- Flame Resistant Clothing (if required)

The following safety measures are 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	<ol style="list-style-type: none"> 1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	<ol style="list-style-type: none"> 1. Free mechanical movement 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	<ol style="list-style-type: none"> 1. Absence of malfunction 2. Proper response to zero span gas 	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Steam clean 2. Leak check
Mobile Van Sampling System	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling lines	<ol style="list-style-type: none"> 1. Sample degradation less than 2% 	After each test series	<ol style="list-style-type: none"> 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 ΔH@	--
Temperature Sensors	Semi-Annually	3-point calibration vs. NIST traceable standard	± 1.5%

Note: Calibration requirements that meet applicable regulatory agency requirements are used.

Appendix D.2

SCAQMD and STAC Certifications



**South Coast
Air Quality Management District**

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

September 18, 2025

Mr. John Peterson
Montrose Air Quality Services, LLC
1631 E. Saint Andrew Place
Santa Ana, CA 92705

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Peterson:

We have completed our review of Montrose Air Quality Services' renewal application under the South Coast AQMD Laboratory Approval Program (LAP). We are pleased to inform you that your firm is approved for the period beginning September 30, 2025, and ending September 30, 2026, for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

South Coast AQMD Methods 1-4
South Coast AQMD Methods 10.1 and 100.1
South Coast AQMD Methods 5.1, 5.2, 5.3, 6.1 (Sampling and Analysis)
South Coast AQMD Methods 25.1 and 25.3 (Sampling)
Rule 1121/ 1146.2 Protocol
Rule 1420/1420.1/1420.2 – (Lead) Source and Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Your LAP approval to perform nitrogen oxide emissions compliance testing for Rule 1121/ 1146.2 Protocols includes satellite facilities located at:

McKenna Boiler
1510 North Spring Street
Los Angeles, CA 90012

Noritz America Corp.
11160 Grace Avenue
Fountain Valley, CA 92708

Ajax Boiler, Inc.
2701 S. Harbor Blvd.
Santa Ana, CA 92704

VA Laundry Bldg., Greater LA Healthcare Sys.
508 Constitution Avenue
Los Angeles, CA 90049

So Cal Gas – Engr Analysis Ctr, Bldg H
8101 Rosemead Blvd
Pico Rivera, CA 90660

Thank you for participating in the LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to me by telephone at (909) 396-2476, or via e-mail at ceckerle@aqmd.gov.

Sincerely,

Colin Eckerle
Program Supervisor
Source Test Engineering

CE/ce
Attachment

250918 LapRenewal.doc



American Association for Laboratory Accreditation

Accredited Air Emission Testing Body

A2LA has accredited

MONTROSE AIR QUALITY SERVICES

In recognition of the successful completion of the joint A2LA and Stack Testing Accreditation Council (STAC) 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 27th day of February 2024.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 28, 2026

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

Appendix D.3

Individual QI Certificate

CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Methods 1.1 - 4.1

Certificate Number: 002-2021-71



Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 12/27/2021

DATE OF EXPIRATION: 12/26/2026



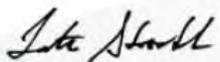
CERTIFICATE OF COMPLETION

Patrick Whitman

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):

SCAQMD Method 207.1

Certificate Number: 002-2021-68



Tate Strickler, VP – Quality Systems

DATE OF ISSUE:

12/27/2021

DATE OF EXPIRATION:

12/26/2026



MONTROSE
ENVIRONMENTAL

Appendix D.4

Statement of No Conflict of Interest

STATEMENT OF NO CONFLICT OF INTEREST AS AN INDEPENDENT TESTING LABORATORY

(To be completed by authorized source testing firm representative and included in source test report)

The following facility and equipment were tested by my source testing firm and are the subjects of this statement:

Facility ID:	153992
Date(s) Tested:	November 5, 2025
Facility Name:	Canyon Power Plant
Equipment Address:	3071 E. Mira Loma Avenue Anaheim, California 92806
Equipment Tested:	Unit 4
Device ID, A/N, P/N:	D19

I state, as its legally authorized representative, that the source testing firm of:

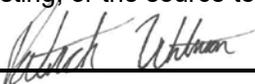
Source Test Firm: Montrose Air Quality Services, LLC
Business Address: 1631 E. St. Andrew Pl.
Santa Ana, California 92705

is an "Independent Testing Laboratory" as defined in **District Rule 304(k)**:

For the purposes of this Rule, when an independent testing laboratory is used for the purposes of establishing compliance with District rules or to obtain a District permit to operate, it must meet all of the following criteria:

- (1) *The testing laboratory shall have no financial interest in the company or facility being tested, or in the parent company, or any subsidiary thereof -*
- (2) *The company or facility being tested, or parent company or any subsidiary thereof, shall have no financial interest in the testing laboratory;*
- (3) *Any company or facility responsible for the emission of significant quantities of pollutants to the atmosphere, or parent company or any subsidiary thereof shall have no financial interest in the testing laboratory; and*
- (4) *The testing laboratory shall not be in partnership with, own or be owned by, in part or in full, the contractor who has provided or installed equipment (basic or control), or monitoring systems, or is providing maintenance for installed equipment or monitoring systems, for the company being tested.*

Furthermore, I state that any contracts or agreements entered into by my source testing firm and the facility referenced above, or its designated contractor(s), either verbal or written, are not contingent upon the outcome of the source testing, or the source testing information provided to the SCAQMD.

Signature:  **Date:** 12/10/2025
Patrick Whitman **Client Project Manager** **(714) 279-6777** **12/10/2025**
(Name) (Title) (Phone) (Date)

APPENDIX E APPLICABLE PERMIT SECTIONS



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
GAS TURBINE, NO. 4, NATURAL GAS, GENERAL ELECTRIC, MODEL LM6000PC SPRINT, SIMPLE CYCLE, 479 MMBTU/HR AT 46 DEG F, WITH INLET CHILLING, WITH WATER INJECTION WITH A/N: 555831	D19	C21	NOX: MAJOR SOURCE**	CO: 4 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 2.5 PPMV NATURAL GAS (4) [RULE 2005, 12-4-2015]; NOX: 25 PPMV NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; PM10: 0.01 GRAINS/SCF NATURAL GAS (5A) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; PM10: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]; PM10: 1.67 LBS/HR NATURAL GAS (5C) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; PM10: 11 LBS/HR NATURAL GAS (5B) [RULE 475, 10-8-1976; RULE 475, 8-7-1978]; SO2: (9) [40CFR 72 - Acid Rain Provisions, 11-24-1997]; SO2: 0.06 LBS/MMBTU NATURAL GAS (8) [40CFR 60 Subpart KKKK, 3-20-2009]; VOC: 2 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A63.1, A99.1, A99.2, A99.3, A195.1, A195.2, A195.3, A327.1, B61.1, D12.1, D29.2, D29.3, D82.1, D82.2, E193.1, H23.1, I298.4, K40.1
GENERATOR, 30.95 MW					

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: POWER GENERATION					
CO OXIDATION CATALYST, NO. 4, BASF, 110 CUBIC FEET OF TOTAL CATALYST VOLUME A/N: 476663	C21	D19 C22			
SELECTIVE CATALYTIC REDUCTION, NO. 4, CORMETECH CMHT-21, 1012 CU.FT.; WIDTH: 2 FT 6 IN; HEIGHT: 25 FT 9 IN; LENGTH: 18 FT WITH A/N: 476663 AMMONIA INJECTION	C22	C21 S24		NH3: 5 PPMV NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	A195.7, D12.2, D12.3, D12.4, E179.1, E179.2, E193.1
STACK, TURBINE NO. 4, HEIGHT: 86 FT ; DIAMETER: 11 FT 8 IN A/N: 555831	S24	C22			
System 2: INTERNAL COMBUSTION ENGINE					

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : C4, C10, C16, C22]

D12.5 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[**RULE 1110.2, 2-1-2008**; **RULE 1110.2, 11-1-2019**; **RULE 1303(b)(2)-Offset, 5-10-1996**; **RULE 1303(b)(2)-Offset, 12-6-2002**; **RULE 1401, 9-1-2017**; **RULE 1470, 5-4-2012**; **RULE 2012, 5-6-2005**; **40CFR 60 Subpart III, 7-7-2016**]

[Devices subject to this condition : D25]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NH3 emissions	District method 207.1	1 hour	Outlet of the SCR serving this equipment



**FACILITY PERMIT TO OPERATE
CANYON POWER PLANT**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The test(s) shall be conducted quarterly during the first twelve months of operation of the catalytic control device and annually thereafter when four consecutive quarterly source tests demonstrate compliance with the ammonia emission limit. If an annual test is failed, four consecutive quarterly source tests must demonstrate compliance with the ammonia emissions limits prior to resuming annual source tests.

The South Coast AQMD shall be notified of the date and time of the test at least 10 days prior to the test.

If the turbine is not in operation during one calendar year, then no testing is required during that calendar year.

The NOx concentration, as determined by the CEMS, shall be simultaneously recorded during the ammonia slip test. If the CEMS is inoperable, a test shall be conducted to determine the NOx emissions using South Coast AQMD Method 100.1 measured over a 60 minute averaging time period.

The test shall be conducted and the results submitted to the South Coast AQMD within 60 days after the test date.

The test shall be conducted to demonstrate compliance with the Rule 1303 concentration limit.

[RULE 1135, 11-2-2018; RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D1, D7, D13, D19]

D29.3 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Sampling Time	Test Location
SOX emissions	AQMD Laboratory Method 307-91	District-approved averaging time	Fuel sample

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: Mr. Patrick Whitman
Title: Client Project Manager
Region: West
Email: PWhitman@montrose-env.com
Phone: (714) 279-6777

Name: Mr. Matt McCune
Title: Principal
Region: West
Email: MMccune@montrose-env.com
Phone: (714) 279-6777

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 17
AQ-14 & AQ-24
RTC INVENTORY



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

December 26, 2024

BERTHA A. HERNANDEZ
ENVIRONMENTAL SERVICES SPECIALIST
CANYON POWER PLANT (ID: 153992)
3071 E MIRALOMA AVE
ANAHEIM CA, 92806

Dear BERTHA A. HERNANDEZ:

Enclosed is your re-issued Facility Permit for Compliance Year 2025 (January 1, 2025 – December 31, 2025). This reissuance is an Administrative Permit Revision to your RECLAIM/Title V Facility Permit and includes the Title Page, Table of Contents, and Section B (RECLAIM Annual Emission Allocations) in accordance with Rule 2002(b)(4).

Please review the enclosed Section B carefully, as it will be part of your official Facility Permit. The changes are stated below. Please note that the South Coast Air Quality Management District (South Coast AQMD) rules allow you to appeal the terms and conditions of any section(s) of the enclosed Facility Permit by petitioning the Hearing Board within thirty days of receipt of the permit.

We recently sent you an invoice for the annual operating renewal fee for your facility permit. This must be paid on or before the due date indicated on the invoice or your facility permit will expire due to non-payment of fees.

A. Facility Permit

The enclosed Facility Permit contains changes described as follows:

1. The revision numbers and dates of the Title Page and the Table of Contents have been updated to reflect the reissuance of the relevant permit sections.

2. Section B – RECLAIM Annual Emission Allocation

Section B has been updated to reflect all approved RECLAIM Trading Credit (RTC) transactions approved as of December 16, 2024. Therefore, if you have submitted any RTC transactions in December, please review your records carefully to ensure that you take into account any RTC transactions that have not been approved as of that date and make necessary changes to your facility's RTC balances when reconciling your facility's emissions.

In addition, the South Coast AQMD has updated Section B of the Facility Permit to list your facility's allocation balances for the next fifteen years pursuant to Rule

2002(b)(4). Also, your facility's Starting Allocation and Non-Tradable RTCs in Compliance Year 1994 are listed within this section. This establishes the level used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) – Trading Zone Restrictions.

B. Appeals

As previously mentioned, if you determine that certain changes or clarifications need to be made to the enclosed permit, you may appeal the terms and conditions by petitioning the Hearing Board within thirty days of receipt. If you determine there are administrative errors in these permit sections, please notify South Coast AQMD staff within thirty days of receipt of your permit sections. Your facility is still bound by the requirements of your entire Facility Permit while your appeal is under consideration by South Coast AQMD staff and/or Hearing Board.

Any comments or questions regarding your RECLAIM/Title V Facility Permit may be directed to Li Chen, Supervising Air Quality Engineer at (909) 396-2426 or lchen@aqmd.gov.

Sincerely,



Shannon. Lee, P.E.
Senior Air Quality Engineering Manager
Engineering and Permitting
Mechanical/Chemical/Energy/Terminals

Enclosure

cc: Gerardo Rios, U.S. EPA (via cdx.epa.gov)
Kevin Orellana, Sr. Enforcement Manager – Compliance



South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Title Page	
Facility ID:	153992
Revision #:	21
Date:	January 01, 2025

FACILITY PERMIT TO OPERATE

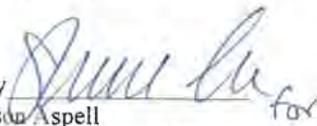
**CANYON POWER PLANT
3071 E MIRALOMA AVE
ANAHEIM, CA 92806**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Wayne Nastri
Executive Officer

By 
Jason Aspell
Deputy Executive Officer
Engineering and Permitting



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

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C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	4	08/19/2021
E	Administrative Conditions	2	08/19/2021
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A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	2	08/19/2021
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FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year Begin End (month/year)	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 01/01/2025 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
7/2022 6/2023	Coastal	0	370	5133
1/2023 12/2023	Coastal	0	2027	0
7/2023 6/2024	Coastal	0	2527	0
1/2024 12/2024	Coastal	0	27141	0
7/2024 6/2025	Coastal	0	21527	0
1/2025 12/2025	Coastal	0	27141	0
7/2025 6/2026	Coastal	0	21527	0
1/2026 12/2026	Coastal	0	27141	0
7/2026 6/2027	Coastal	0	21527	0
1/2027 12/2027	Coastal	0	27141	0
7/2027 6/2028	Coastal	0	21527	0
1/2028 12/2028	Coastal	0	27141	0
7/2028 6/2029	Coastal	0	21527	0
1/2029 12/2029	Coastal	0	27141	0
7/2029 6/2030	Coastal	0	21527	0
1/2030 12/2030	Coastal	0	27141	0
7/2030 6/2031	Coastal	0	21527	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year Begin End (month/year)	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 01/01/2025 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
1/2031 12/2031	Coastal	0	27141	0
7/2031 6/2032	Coastal	0	21527	0
1/2032 12/2032	Coastal	0	27141	0
7/2032 6/2033	Coastal	0	21527	0
1/2033 12/2033	Coastal	0	27141	0
7/2033 6/2034	Coastal	0	21527	0
1/2034 12/2034	Coastal	0	27141	0
7/2034 6/2035	Coastal	0	21527	0
1/2035 12/2035	Coastal	0	27141	0
7/2035 6/2036	Coastal	0	21527	0
1/2036 12/2036	Coastal	0	27141	0
7/2036 6/2037	Coastal	0	21527	0
1/2037 12/2037	Coastal	0	27141	0
7/2037 6/2038	Coastal	0	21527	0
1/2038 12/2038	Coastal	0	27141	0
7/2038 6/2039	Coastal	0	21527	0
1/2039 12/2039	Coastal	0	27141	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year Begin End (month/year)	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 01/01/2025 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
7/2039 6/2040	Coastal	0	21527	0
1/2040 12/2040	Coastal	0	27141	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



FACILITY PERMIT TO OPERATE CANYON POWER PLANT

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase in an annual allocation to a level greater than the facility's starting Allocation plus Non-Tradable credits as listed below, the application will be evaluated for compliance with Rule 2005 (c)(4). Rule 2005 (e) - Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year	Zone	RTC	Non-Tradable
Begin End		Starting Allocation	Credits(NTC)
(month/year)		(pounds)	(pounds)

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 18
AQ-17
NH3 FLOW METER ACCURACY REPORTS

Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	Not Labeled (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion	
Location:	NH3 Flow Meter, Unknown Unit	Model Number:	CMF025M313N2BAEZZZ (Sensor), 1700R11ABAEZZZ (Xmtr)	
Calibration Description:	Gravimetric calibration with direct totalizer comparison from flow meter to calibration standard indicated below. Flow meter is a 0.25" coriolis with remote transmitter.	Serial Number:	14832375 (Sensor), 3418564 (Xmtr)	
Notes:	NA		As Found	As Left
		Flo Cal Factor:	4.8034	4.8034
		mA Output 1:	0 to 150 lb/hr	0 to 150 lb/hr
		Pulse Out:	36000 pulses/lb	36000 pulses/lb

Calibration Performance

Status:	Found (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail
75	6.513	6.515	-0.03%		Pass
100	8.421	8.415	0.07%		Pass
150	12.925	12.915	0.08%		Pass

Status:	Left (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail

Calibration Standards

Standard 1:	Torrey Scale, Mod: L-EQ 10/20, SN: 116-006363, Due: 4/2026, NIST: 220225002
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	Not Labeled (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter, Unknown Unit	Model Number:	CMF025M313N2BAEZZZ (Sensor), 1700R11ABAEZZZ (Xmtr)		
Calibration Description:	Calibration of xmtr mA output	Serial Number:	14832375 (Sensor), 3418564 (Xmtr)		
Notes:	NA		As Found		As Left
		Flo Cal Factor:	4.8034		4.8034
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	36000 pulses/lb		36000 pulses/lb

Calibration Performance

Status:	Found (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA	
				Tolerance:	± 0.20%	
Sensor Simulated mA	Standard Measured	Error Sensor/Standard				Pass/Fail
4.00	4.000	0.00%				Pass
8.00	7.999	0.01%				Pass
12.00	11.997	0.03%				Pass
16.00	15.997	0.02%				Pass
20.00	19.996	0.02%				Pass

Status:	Left (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA	
				Tolerance:	± 0.20%	
Sensor Simulated mA	Standard Measured	Error Sensor/Standard				Pass/Fail

Calibration Standards

Standard 1:	Druck DPI620, SN: 5561562, Due: 2/28/2026, NIST: 20000371401
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	02-FE-423 (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter, Unit 2	Model Number:	CMF025M313NQBUEZZZ (Sensor), 1700R11ABUEZZZ (Xmtr)		
Calibration Description:	Gravimetric calibration with direct totalizer comparison from flow meter to calibration standard indicated below. Flow meter is a 0.25" coriolis with remote transmitter.	Serial Number:	14236418 (Sensor), 3127345 (Xmtr)		
Notes:	NA		As Found		As Left
		Flo Cal Factor:	5.0668		5.0668
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	1500 pulses/lb		1500 pulses/lb

Calibration Performance

Status:	Found (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail
75	6.861	6.855	0.09%		Pass
100	8.601	8.590	0.13%		Pass
150	13.128	13.115	0.10%		Pass

Status:	Left (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail

Calibration Standards

Standard 1:	Torrey Scale, Mod: L-EQ 10/20, SN: 116-006363, Due: 4/2026, NIST: 220225002
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	02-FE-423 (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter, Unit 2	Model Number:	CMF025M313NQBUEZZZ (Sensor), 1700R11ABUEZZZ (Xmtr)		
Calibration Description:	Calibration of xmtr mA output	Serial Number:	14236418 (Sensor), 3127345 (Xmtr)		
Notes:	NA		As Found		As Left
		Flo Cal Factor:	5.0668		5.0668
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	1500 pulses/lb		1500 pulses/lb

Calibration Performance

Status:	Found (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail
4.00	3.994	0.15%			Pass
8.00	7.988	0.15%			Pass
12.00	11.982	0.15%			Pass
16.00	15.977	0.14%			Pass
20.00	19.973	0.14%			Pass

Status:	Left (mA trim procedure applied)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail
4.00	3.998	0.05%			Pass
8.00	7.999	0.01%			Pass
12.00	11.998	0.02%			Pass
16.00	15.997	0.02%			Pass
20.00	20.001	0.00%			Pass

Calibration Standards

Standard 1:	Druck DPI620, SN: 5561562, Due: 2/28/2026, NIST: 20000371401
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

Certificate of Calibration

Calibration Date:	8/4/2025
Calibration Due Date:	8/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250804
Technician:	Robert Watson
CA Weights & Measures ID:	1918-05799

Calibrated Instrument Data

Equipment ID:	Not Labeled (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter, Unknown Unit	Model Number:	CMF025M313N2BAEZZZ (Sensor), 1700R11ABAEZZZ (Xmtr)		
Calibration Description:	Calibration of xmtr mA output	Serial Number:	14136005 (Sensor), 3127334 (Xmtr)		
Notes:	NA	As Found		As Left	
		Flo Cal Factor:	5.0532		5.0532
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	36000 pulses/lb		36000 pulses/lb

Calibration Performance

Status:	Found (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail
4.00	4.000	0.00%			Pass
8.00	8.001	-0.01%			Pass
12.00	11.998	0.02%			Pass
16.00	16.001	-0.01%			Pass
20.00	19.998	0.01%			Pass

Status:	Left (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail

Calibration Standards

Standard 1:	Druck DPI620, SN: 5561562, Due: 2/28/2026, NIST: 20000371401
Standard 2:	

Standard 3:	
Standard 4:	



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Certificate of Calibration

Calibration Date:	8/4/2025
Calibration Due Date:	8/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250804
Technician:	Robert Watson
CA Weights & Measures ID:	1918-05799

Calibrated Instrument Data

Equipment ID:	Not Labeled (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter, Unknown Unit	Model Number:	CMF025M313N2BAEZZZ (Sensor), 1700R11ABAEZZZ (Xmtr)		
Calibration Description:	Gravimetric calibration with direct totalizer comparison from flow meter to calibration standard indicated below. Flow meter is a 0.25" coriolis with remote transmitter.	Serial Number:	14136005 (Sensor), 3127334 (Xmtr)		
Notes:	NA	As Found		As Left	
		Flo Cal Factor:	5.0532		5.0532
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	36000 pulses/lb		36000 pulses/lb

Calibration Performance

Status:	Found (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail
75	7.143	7.153	-0.14%		Pass
100	10.240	10.245	-0.05%		Pass
150	15.316	15.330	-0.09%		Pass

Status:	Left (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail

Calibration Standards

Standard 1:	Torrey Scale, Mod: L-EQ 10/20, SN: 116-006363, Due: 4/2026, NIST: 220225002
Standard 2:	

Standard 3:	
Standard 4:	



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Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	03-FE-423 (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter	Model Number:	CMF025M313NQBUEZZZ (Sensor), 1700R11ABUEZZZ (Xmtr)		
Calibration Description:	Gravimetric calibration with direct totalizer comparison from flow meter to calibration standard indicated below. Flow meter is a 0.25" coriolis with remote transmitter.	Serial Number:	14134531 (Sensor), 3125463 (Xmtr)		
Notes:	NA		As Found		As Left
		Flo Cal Factor:	5.0786		5.0786
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	36 pulses/lb		36 pulses/lb

Calibration Performance

Status:	Found (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail
75	6.617	6.610	0.11%		Pass
100	8.526	8.520	0.07%		Pass
150	12.439	12.430	0.07%		Pass

Status:	Left (Gravimetric calibration of flow meter with direct totalizer comparison to MMCI standard)			Units:	Pounds
				Tolerance:	± 0.50%
Test Rate/hr	Sensor Total	Standard	Error Sensor/Standard		Pass/Fail

Calibration Standards

Standard 1:	Torrey Scale, Mod: L-EQ 10/20, SN: 116-006363, Due: 4/2026, NIST: 220225002
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

Certificate of Calibration

Calibration Date:	4/17/2025
Calibration Due Date:	4/2026
Customer:	SCPPA-Canyon Power Plant, 3071 E Miraloma Ave., Anaheim, CA 92806

Certificate Lot Number:	250417
Technician:	Brandon Davis
CA Weights & Measures ID:	1918-04871

Calibrated Instrument Data

Equipment ID:	03-FE-423 (Sensor), FIT-423 (Xmtr)	Manufacturer:	Micro Motion		
Location:	NH3 Flow Meter	Model Number:	CMF025M313NQBUEZZZ (Sensor), 1700R11ABUEZZZ (Xmtr)		
Calibration Description:	Calibration of xmtr mA output	Serial Number:	14134531 (Sensor), 3125463 (Xmtr)		
Notes:	NA		As Found		As Left
		Flo Cal Factor:	5.0786		5.0786
		mA Output 1:	0 to 150 lb/hr		0 to 150 lb/hr
		Pulse Out:	36 pulses/lb		36 pulses/lb

Calibration Performance

Status:	Found (mA calibration of flow transmitter mA output with direct comparison to MMCI standard)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail
4.00	3.997	0.08%			Pass
8.00	7.989	0.14%			Pass
12.00	11.983	0.14%			Pass
16.00	15.976	0.15%			Pass
20.00	19.971	0.15%			Pass

Status:	Left (mA trim procedure applied)			Units:	mA
				Tolerance:	± 0.20%
Sensor Simulated mA	Standard Measured	Error Sensor/Standard			Pass/Fail
4.00	4.001	-0.02%			Pass
8.00	8.000	0.00%			Pass
12.00	11.998	0.02%			Pass
16.00	15.999	0.01%			Pass
20.00	20.000	0.00%			Pass

Calibration Standards

Standard 1:	Druck DPI620, SN: 5561562, Due: 2/28/2026, NIST: 20000371401
Standard 2:	

Standard 3:	
Standard 4:	

This device has been calibrated using standards traceable to the National Institute of Standards & Technology (NIST). This certificate shall not be reproduced in any form, except in full, without the expressed written consent of MMCI. Please refer to MMCI's contact information above regarding any questions associated with this certificate.

Technician Signature 

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 19
AQ-18
SCR INLET TEMPERATURE SENSOR
CALIBRATION REPORTS

**Calibration: SCR Inlet Temperature
Unit 1 TE-403A-403D**

Calibration Certificate

Printed: 1/7/2025 1:44:03 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 1-TE-403A

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U1/

Device

Device ID: 1-TE-403A
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U1 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

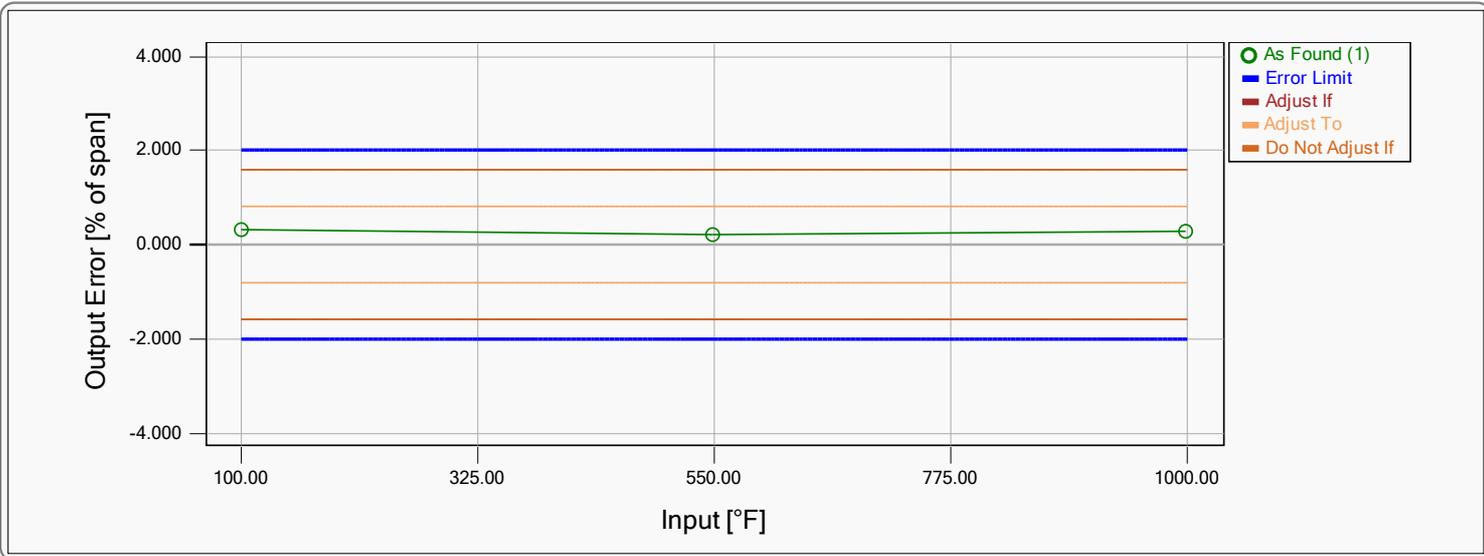
Calibration time: 1/7/2025 8:40:09 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.333 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	103.000	0.333
550.0	549.99	550.0	552.000	0.223
1000.0	999.99	1000.0	1002.500	0.279

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 8:40:09 AM

Calibration Certificate

Printed: 1/7/2025 1:44:03 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
 Position ID: 1-TE-403B

Position

Name: SCR INLET TEMP
 Work Order Number:
 Location: NH3 INJ SKID
 Plant: CANYON/ERU/U1/

Device

Device ID: 1-TE-403B
 Serial Number:
 Manufacturer:
 Rangeability:
 Operating: Operating Humidity

Function

Name: U1 SCR INLET TEMP (ud)
 Transfer Function: Linear
 Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

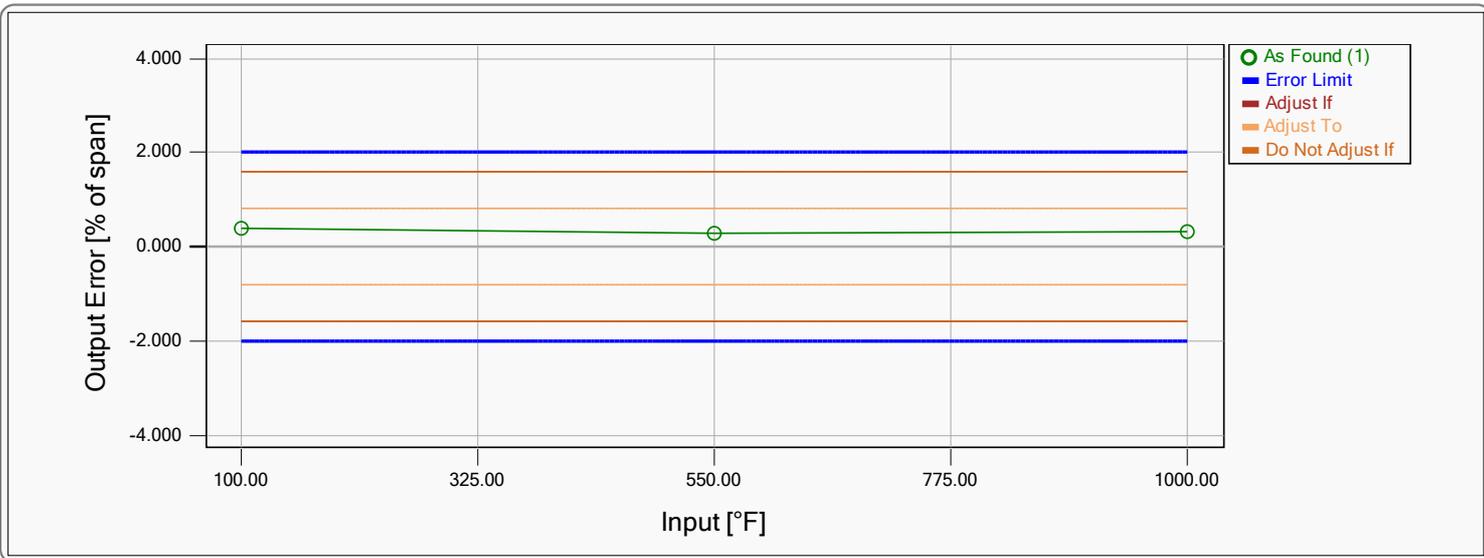
Calibration time: 1/7/2025 8:43:37 AM
 Next Calibration:
 Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
 Reject If Error >: 2 % of span
 Adjust To Error <: 40 % of Reject If Error Classification
 Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
 Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
 Output Calibrator:
 Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.389 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	103.500	0.389
550.0	550.00	550.0	552.500	0.278
1000.0	1000.00	1000.0	1003.000	0.333

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/7/2025 8:43:37 AM

Calibration Certificate

Printed: 1/7/2025 1:44:03 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 1-TE-403C

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U1/

Device

Device ID: 1-TE-403C
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U1 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

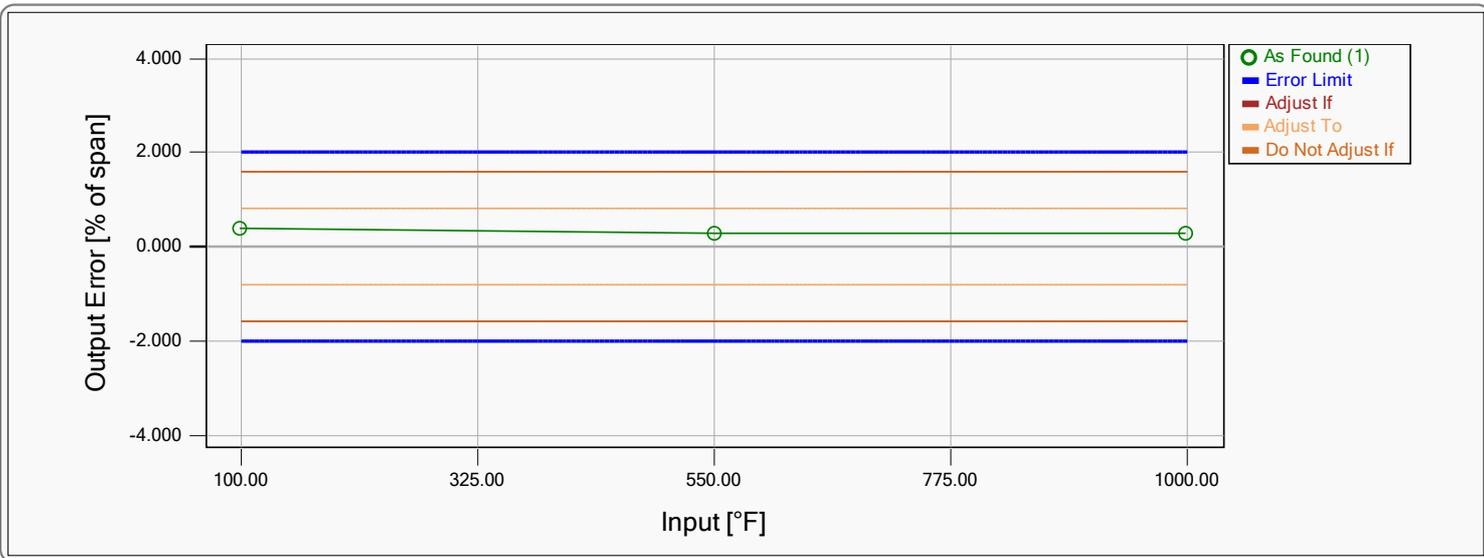
Calibration time: 1/7/2025 8:47:29 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.390 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	99.99	100.0	103.500	0.390
550.0	550.00	550.0	552.500	0.278
1000.0	999.99	1000.0	1002.500	0.279

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 8:47:29 AM

Calibration Certificate

Printed: 1/7/2025 1:44:03 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
 Position ID: 1-TE-403D

Position

Name: SCR INLET TEMP
 Work Order Number:
 Location: NH3 INJ SKID
 Plant: CANYON/ERU/U1/

Device

Device ID: 1-TE-403D
 Serial Number:
 Manufacturer:
 Rangeability:
 Operating: Operating Humidity

Function

Name: U1 SCR INLET TEMP (ud)
 Transfer Function: Linear
 Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

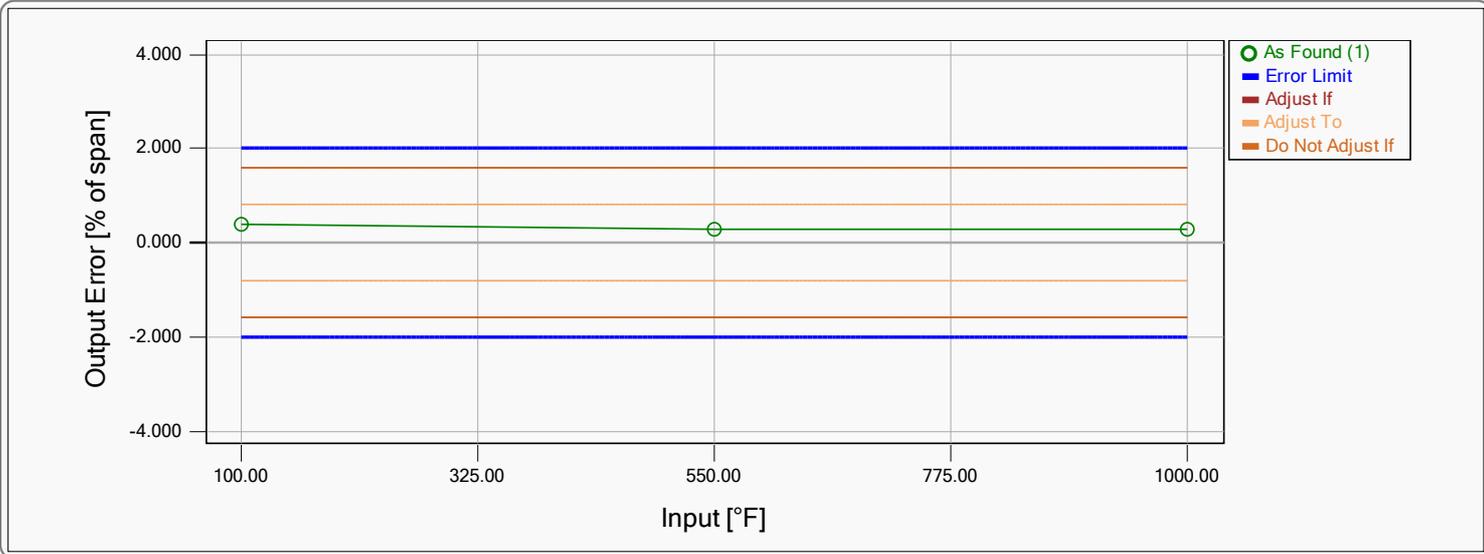
Calibration time: 1/7/2025 8:51:24 AM
 Next Calibration:
 Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
 Reject If Error >: 2 % of span
 Adjust To Error <: 40 % of Reject If Error Classification
 Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
 Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
 Output Calibrator:
 Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.389 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	103.500	0.389
550.0	550.00	550.0	552.500	0.278
1000.0	1000.00	1000.0	1002.500	0.278

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/7/2025 8:51:24 AM

Calibration: SCR Inlet Temperature
Unit 2 TE-403A-403D

Calibration Certificate

Printed: 1/7/2025 1:45:30 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 2-TE-403A

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U2/

Device

Device ID: 2-TE-403A
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U2 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

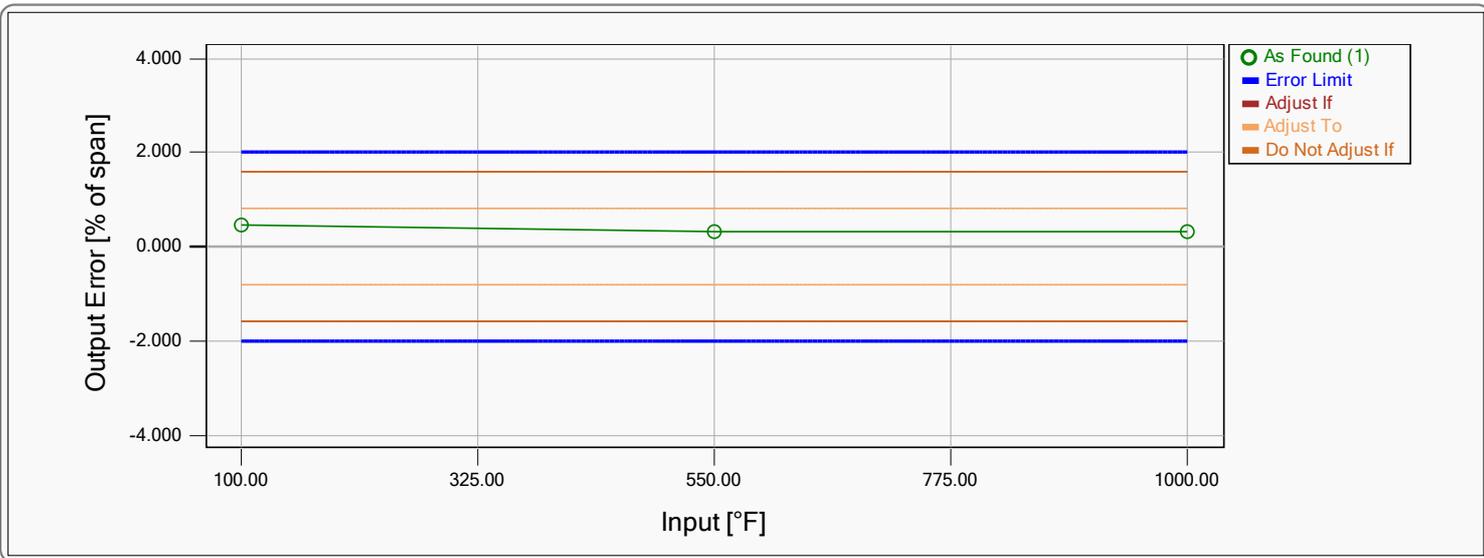
Calibration time: 1/7/2025 9:07:35 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.444 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	104.000	0.444
550.0	550.00	550.0	553.000	0.333
1000.0	1000.01	1000.0	1003.000	0.332

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:07:35 AM

Calibration Certificate

Printed: 1/7/2025 1:45:30 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 2-TE-403B

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U2/

Device

Device ID: 2-TE-403B
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U2 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

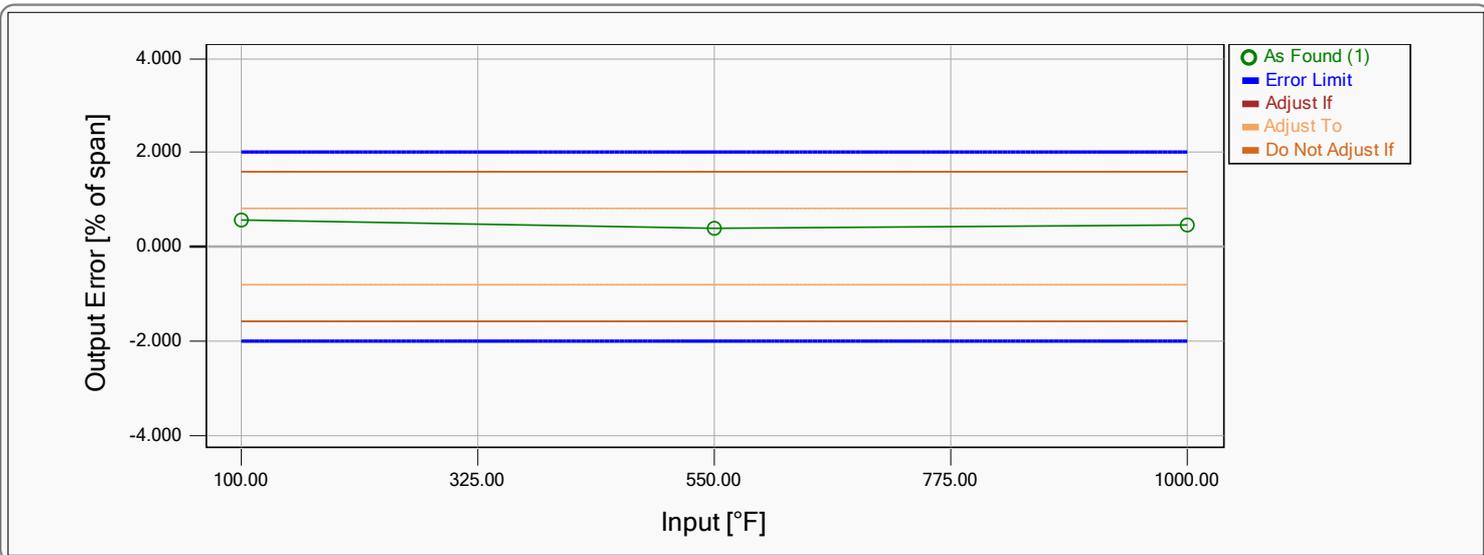
Calibration time: 1/7/2025 9:10:43 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.556 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	105.000	0.556
550.0	550.00	550.0	553.500	0.389
1000.0	1000.00	1000.0	1004.000	0.444

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:10:43 AM

Calibration Certificate

Printed: 1/7/2025 1:45:30 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: **2-TE-403C**

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U2/

Device

Device ID: 2-TE-403C
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U2 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

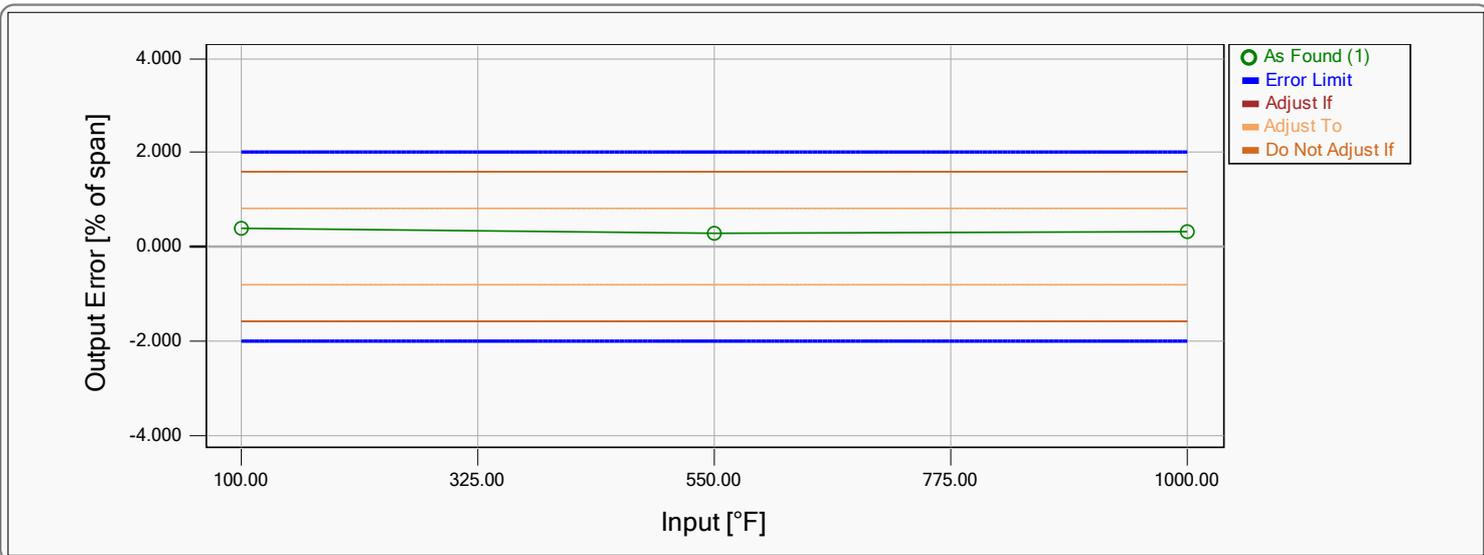
Calibration time: 1/7/2025 9:13:26 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.388 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	103.500	0.388
550.0	550.01	550.0	552.500	0.277
1000.0	1000.01	1000.0	1003.000	0.332

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:13:26 AM

Calibration Certificate

Printed: 1/7/2025 1:45:30 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: **2-TE-403D**

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U2/

Device

Device ID: 2-TE-403D
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U2 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

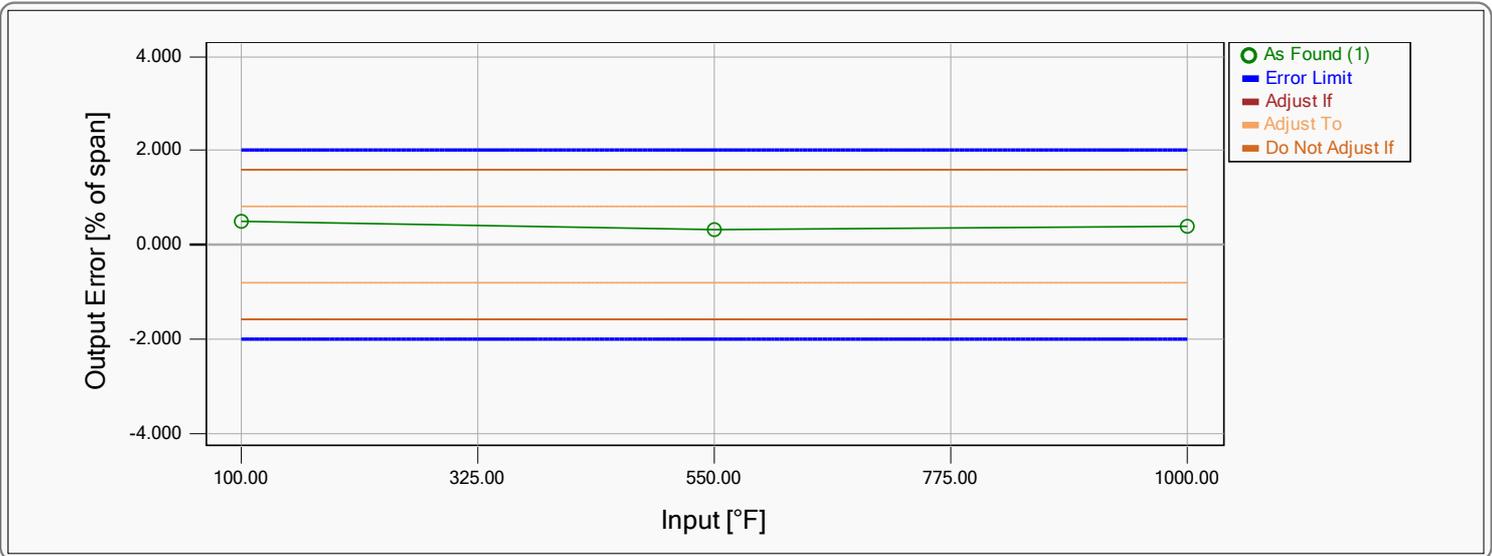
Calibration time: 1/7/2025 9:16:30 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.499 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	104.500	0.499
550.0	550.00	550.0	553.000	0.333
1000.0	1000.00	1000.0	1003.500	0.389

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:16:30 AM

Calibration: SCR Inlet Temperature
Unit 3 TE-403A-403D

Calibration Certificate

Printed: 1/7/2025 1:48:18 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 3-TE-403A

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U3/

Device

Device ID: 3-TE-403A
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U3 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

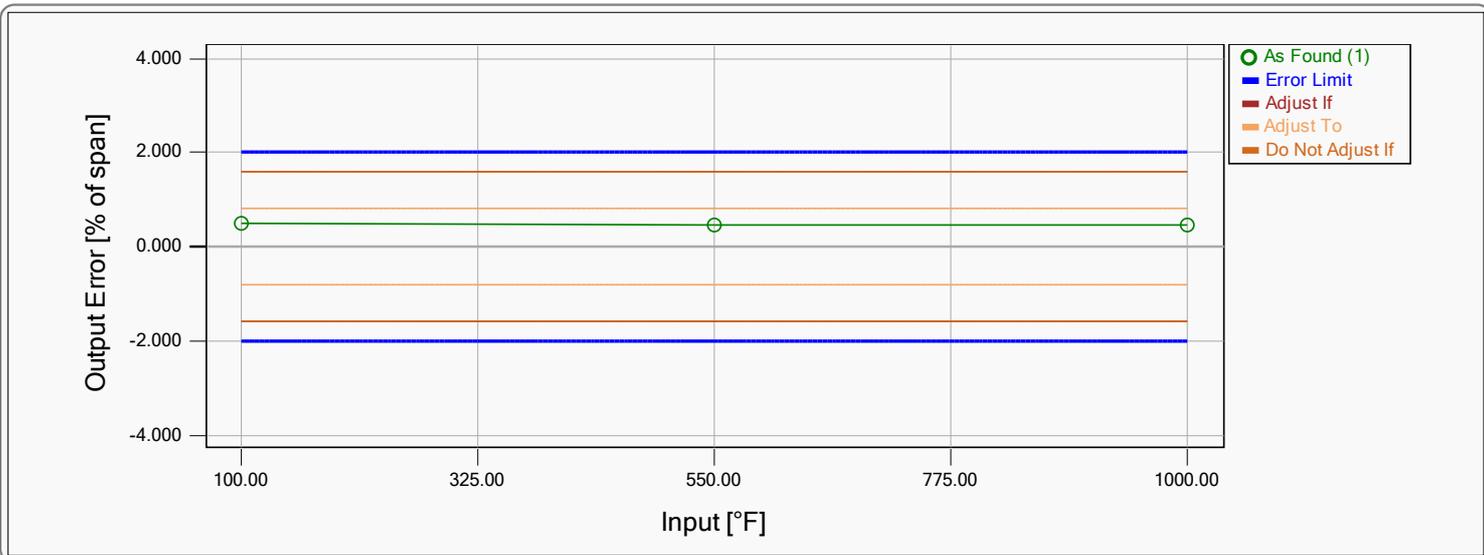
Calibration time: 1/7/2025 9:31:30 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.499 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	104.500	0.499
550.0	550.01	550.0	554.000	0.443
1000.0	1000.01	1000.0	1004.000	0.443

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:31:30 AM

Calibration Certificate

Printed: 1/7/2025 1:48:18 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
 Position ID: **3-TE-403B**

Position

Name: SCR INLET TEMP
 Work Order Number:
 Location: NH3 INJ SKID
 Plant: CANYON/ERU/U3/

Device

Device ID: 3-TE-403B
 Serial Number:
 Manufacturer:
 Rangeability:
 Operating: Operating Humidity

Function

Name: U3 SCR INLET TEMP (ud)
 Transfer Function: Linear
 Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

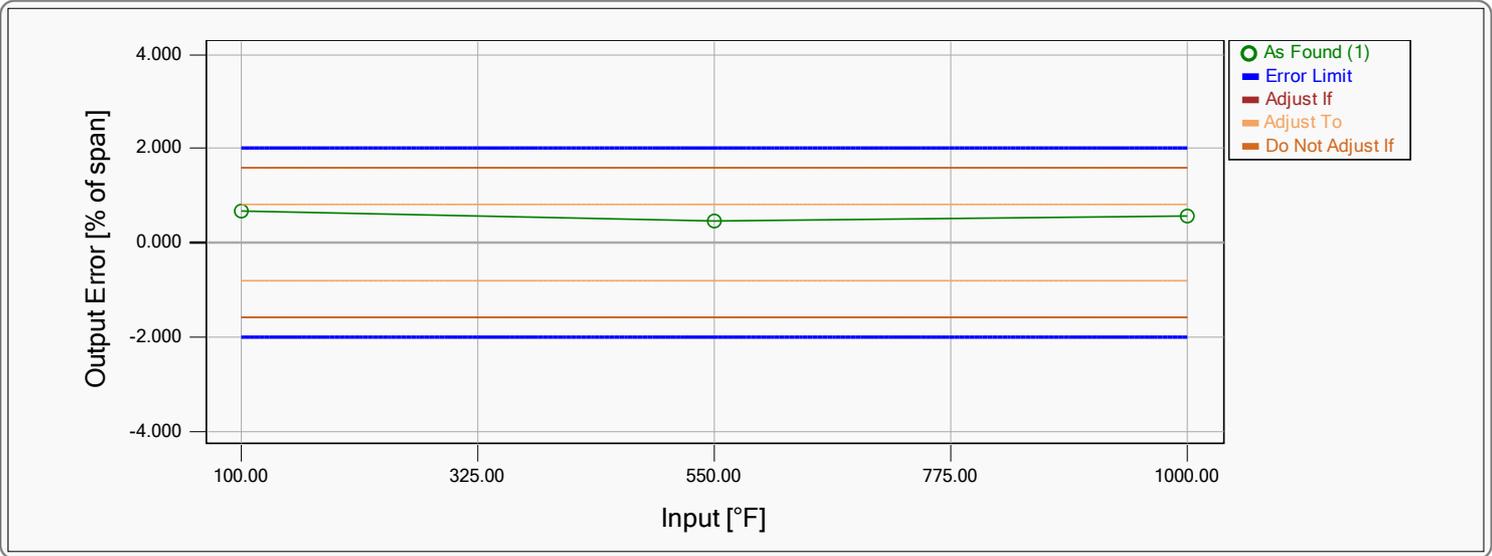
Calibration time: 1/7/2025 9:34:56 AM
 Next Calibration:
 Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
 Reject If Error >: 2 % of span
 Adjust To Error <: 40 % of Reject If Error Classification
 Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
 Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
 Output Calibrator:
 Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.666 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	106.000	0.666
550.0	550.01	550.0	554.000	0.443
1000.0	1000.01	1000.0	1005.000	0.554

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/7/2025 9:34:56 AM

Calibration Certificate

Printed: 1/7/2025 1:48:18 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
 Position ID: 3-TE-403C

Position

Name: SCR INLET TEMP
 Work Order Number:
 Location: NH3 INJ SKID
 Plant: CANYON/ERU/U3/

Device

Device ID: 3-TE-403C
 Serial Number:
 Manufacturer:
 Rangeability:
 Operating: Operating Humidity

Function

Name: U3 SCR INLET TEMP (ud)
 Transfer Function: Linear
 Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

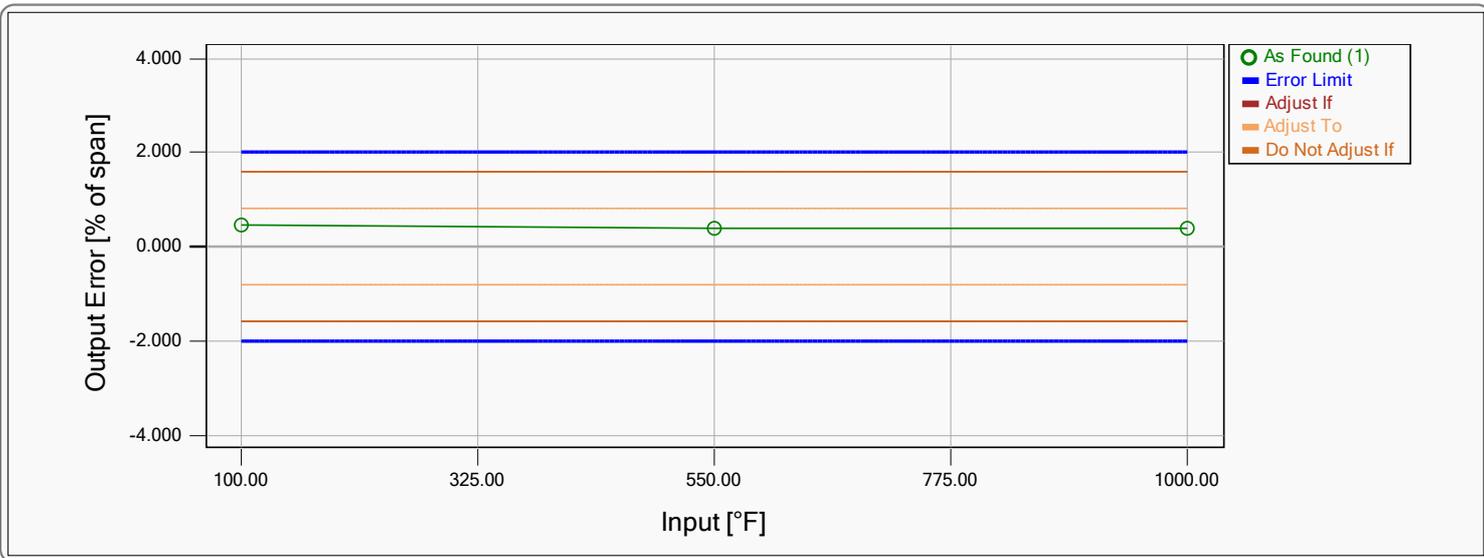
Calibration time: 1/7/2025 9:37:54 AM
 Next Calibration:
 Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
 Reject If Error >: 2 % of span
 Adjust To Error <: 40 % of Reject If Error Classification
 Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
 Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
 Output Calibrator:
 Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.443 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	104.000	0.443
550.0	550.01	550.0	553.500	0.388
1000.0	1000.01	1000.0	1003.500	0.388

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/7/2025 9:37:54 AM

Calibration Certificate

Printed: 1/7/2025 1:48:18 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 3-TE-403D

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U3/

Device

Device ID: 3-TE-403D
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U3 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

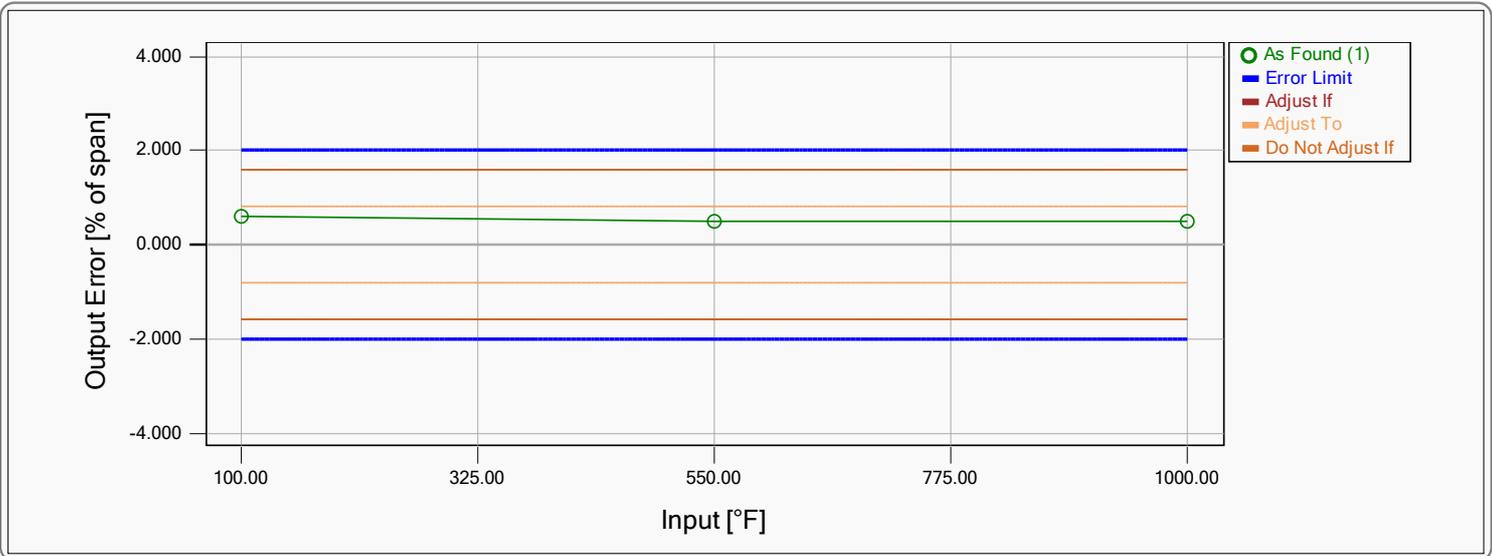
Calibration time: 1/7/2025 9:40:58 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.610 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	105.500	0.610
550.0	550.01	550.0	554.500	0.499
1000.0	1000.01	1000.0	1004.500	0.499

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:40:58 AM

Calibration: SCR Inlet Temperature
Unit 4 TE-403A-403D

Calibration Certificate

Printed: 1/7/2025 1:49:42 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 4-TE-403A

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U4/

Device

Device ID: 4-TE-403A
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U4 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

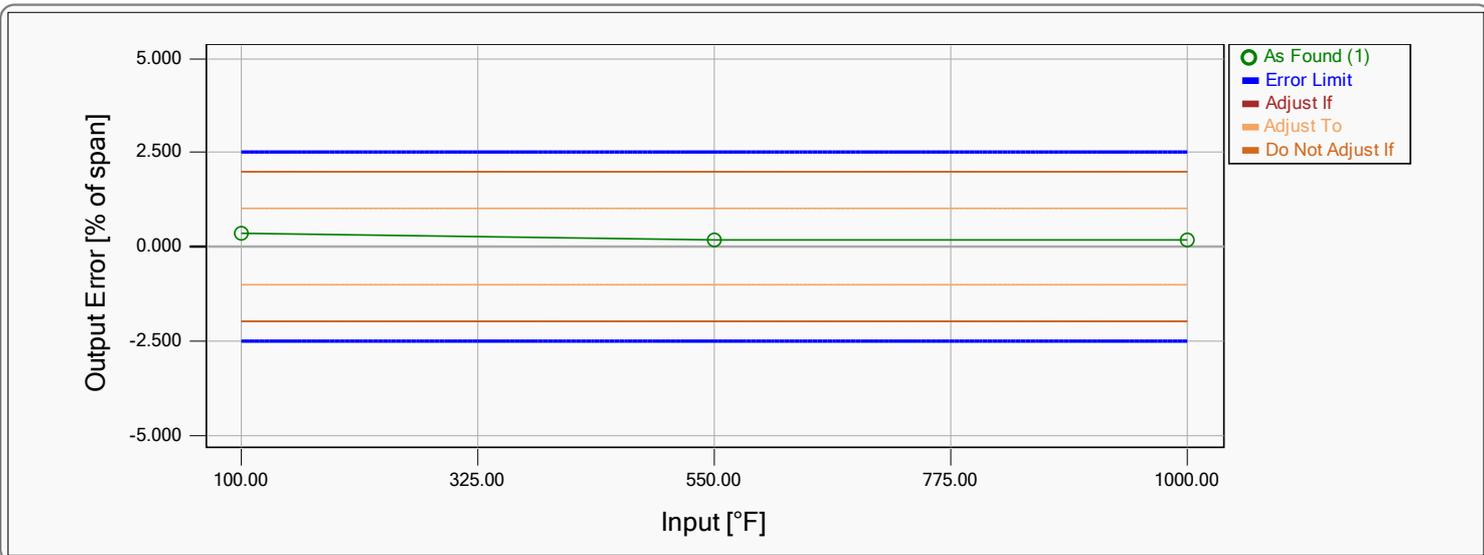
Calibration time: 1/7/2025 9:52:33 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2.5 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.333 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.00	100.0	103.000	0.333
550.0	550.00	550.0	551.500	0.167
1000.0	1000.01	1000.0	1001.500	0.166

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:52:33 AM

Calibration Certificate

Printed: 1/7/2025 1:49:42 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 4-TE-403B

Position

Name: SCR INLET TEMP
 Work Order Number:
 Location: NH3 INJ SKID
 Plant: CANYON/ERU/U4/

Device

Device ID: 4-TE-403B
 Serial Number:
 Manufacturer:
 Rangeability:
 Operating: Operating Humidity

Function

Name: U4 SCR INLET TEMP (ud)
 Transfer Function: Linear
 Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

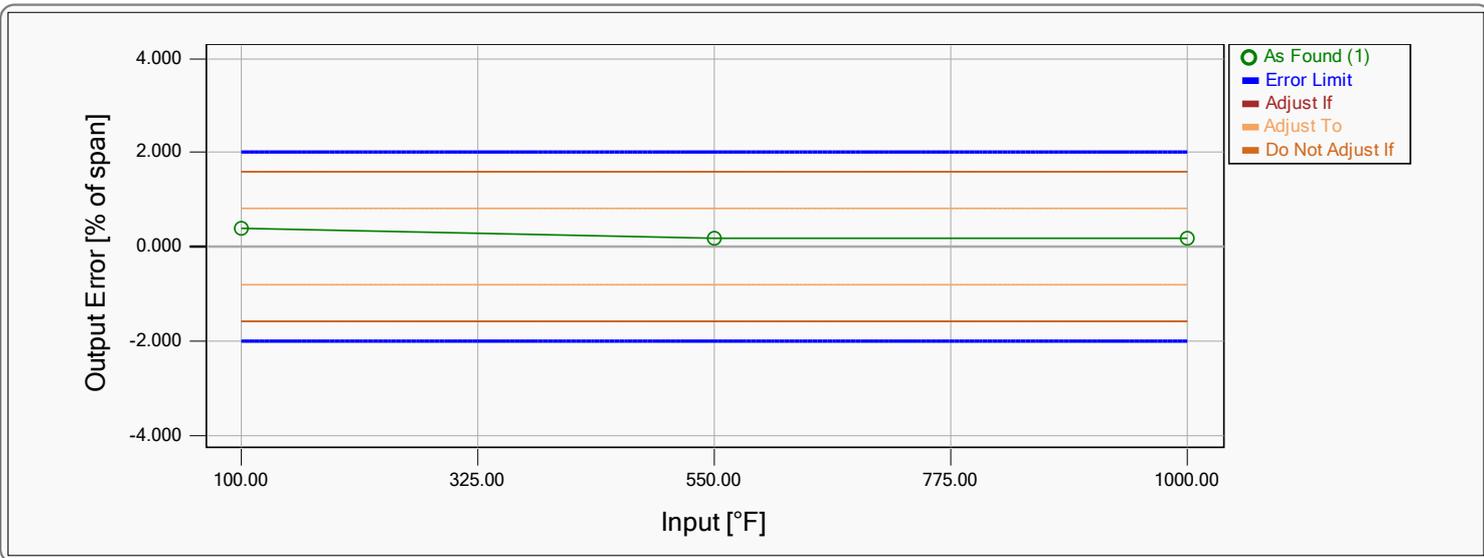
Calibration time: 1/7/2025 9:55:40 AM
 Next Calibration:
 Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
 Reject If Error >: 2 % of span
 Adjust To Error <: 40 % of Reject If Error Classification
 Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
 Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
 Output Calibrator:
 Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.387 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.02	100.0	103.500	0.387
550.0	550.01	550.0	551.500	0.166
1000.0	1000.01	1000.0	1001.500	0.166

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/7/2025 9:55:40 AM

Calibration Certificate

Printed: 1/7/2025 1:49:42 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 4-TE-403C

Position

Name SCR INLET TEMP
Work Order Number
Location NH3 INJ SKID
Plant CANYON/ERU/U4/

Device

Device ID 4-TE-403C
Serial Number
Manufacturer
Rangeability
Operating
Operating Humidity

Function

Name U4 SCR INLET TEMP (ud)
Transfer Function Linear
Range 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

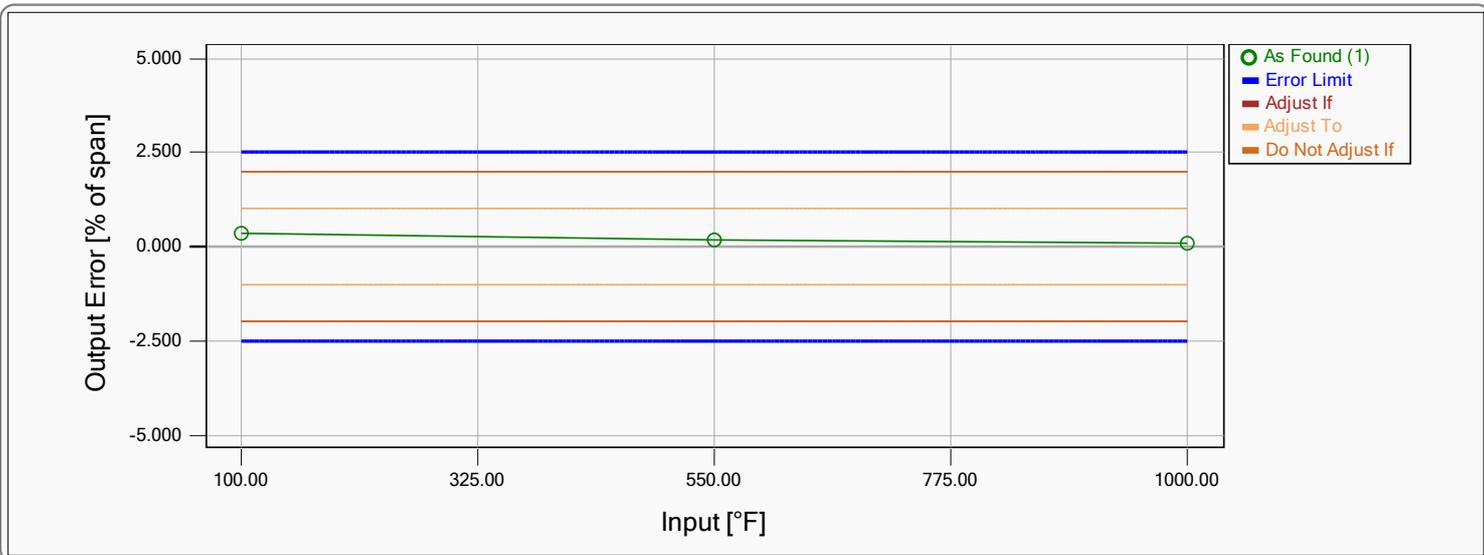
Calibration time 1/7/2025 9:58:48 AM
Next Calibration
Environment Environment

Calibration Procedure

Due Date 1/7/2026 Interval 1 years
Reject If Error > 2.5 % of span
Adjust To Error < 40 % of Reject If Error Classification
Calibration Strategy

Calibrators

Input Calibrator MC6 : 605835 Due Date: 2/6/2025
Input Module TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator Due Date:
Output Module Due Date:



1. As Found

PASSED, DO NOT ADJUST

Maximum Error: 0.332 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	103.000	0.332
550.0	550.01	550.0	551.500	0.166
1000.0	1000.02	1000.0	1001.000	0.109

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 9:58:48 AM

Calibration Certificate

Printed: 1/7/2025 1:49:42 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 4-TE-403D

Position

Name: SCR INLET TEMP
Work Order Number:
Location: NH3 INJ SKID
Plant: CANYON/ERU/U4/

Device

Device ID: 4-TE-403D
Serial Number:
Manufacturer:
Rangeability:
Operating: Operating Humidity

Function

Name: U4 SCR INLET TEMP (ud)
Transfer Function: Linear
Range: 100 ... 1000 °F 100 ... 1000 °F

Calibration Event

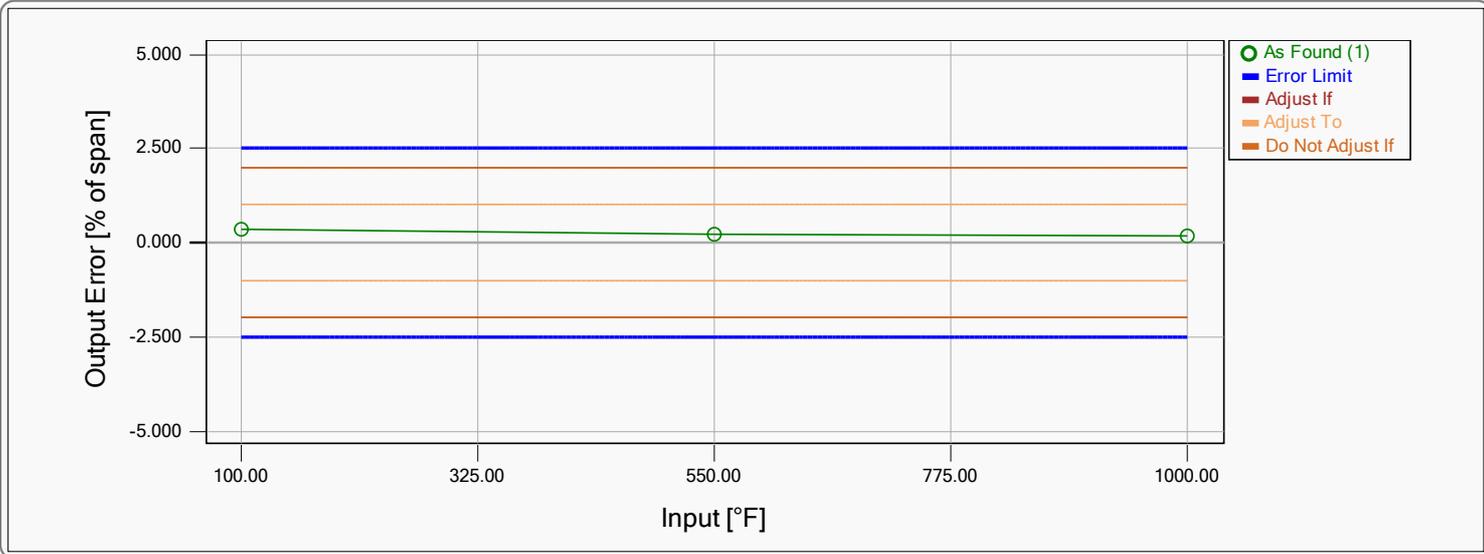
Calibration time: 1/7/2025 10:02:12 AM
Next Calibration:
Environment: Environment

Calibration Procedure

Due Date: 1/7/2026 Interval: 1 years
Reject If Error >: 2.5 % of span
Adjust To Error <: 40 % of Reject If Error Classification
Calibration Strategy:

Calibrators

Input Calibrator: MC6 : 605835 Due Date: 2/6/2025
Input Module: TC-R-OUT/ TC1 : 65279 Due Date: 2/1/2025
Output Calibrator:
Output Module: Due Date:



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.332 % of span

Nominal Input [°F]	Actual Input [°F]	Nominal Output [°F]	Actual Output [°F]	Found Error [% of span]
100.0	100.01	100.0	103.000	0.332
550.0	550.01	550.0	552.000	0.221
1000.0	1000.01	1000.0	1001.500	0.166

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/7/2025 10:02:12 AM

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT

ATTACHMENT 20

AQ-19
SCR DIFFERENTIAL PRESSURE SENSOR

CALIBRATION REPORTS

**Calibration Report: SCR Differential Pressure Sensor
Unit 1 PDIT-403**

Calibration Certificate

Printed: 1/7/2025 1:43:03 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 1-PDIT-403

Position

Name U1 SCR DP
 Work Order Number
 Location U1 ERU
 Plant CANYON/ERU/U1/

Device

Device ID 1-PDIT-403
 Serial Number
 Manufacturer Rosemount 3051S2CD1A2F12A1AB3E5L4M5Q4
 Rangeability
 Operating Operating Humidity

Function

Name U1 SCR DP (ud)
 Transfer Function Linear
 Range 0 ... 10 inH2O (G) 4 ... 20 mA

Calibration Event

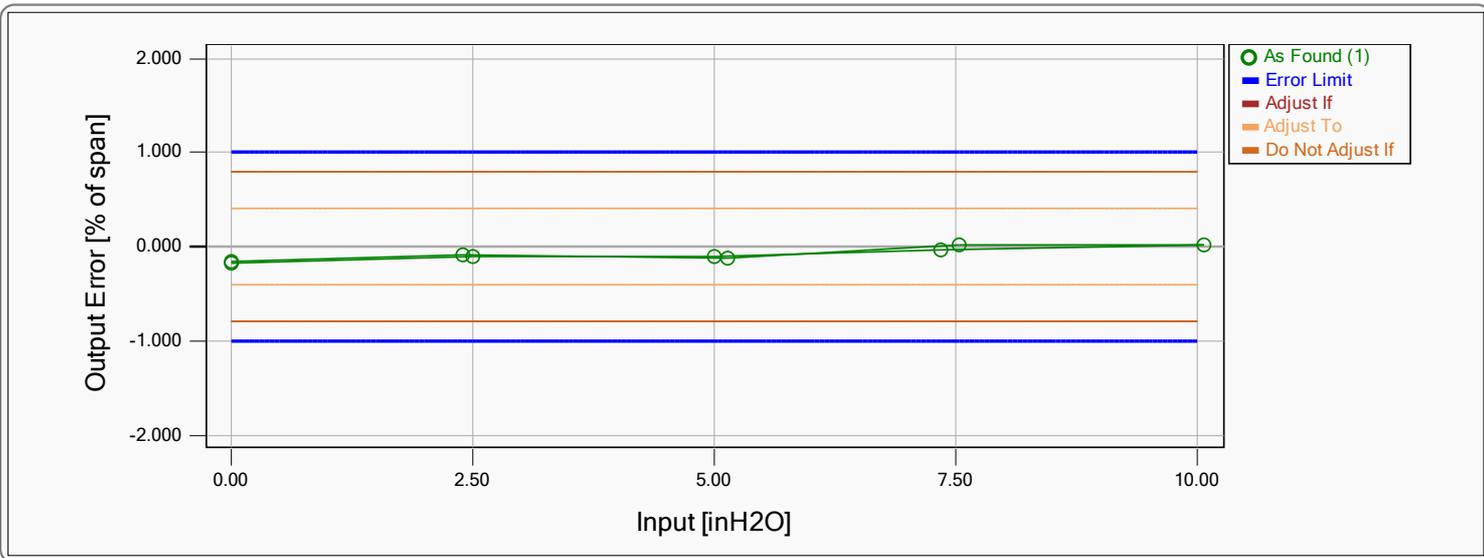
Calibration time 1/6/2025 9:33:03 AM
 Next Calibration
 Environment Environment

Calibration Procedure

Due Date 1/6/2026 Interval 1 years
 Reject If Error > 1 % of span
 Adjust To Error < 40 % of Reject If Error Classification
 Calibration Strategy

Calibrators

Input Calibrator MC6 : 605835 Due Date: 2/6/2025
 Input Module P2C : 69381 Due Date: 2/6/2025
 Output Calibrator MC6 : 605835 Due Date: 2/6/2025
 Output Module IN : 25613 Due Date: 2/1/2025



1. As Found PASSED, DO NOT ADJUST

Maximum Error: -0.178 % of span

Nominal Input [inH2O]	Actual Input [inH2O]	Nominal Output [mA]	Actual Output [mA]	Found Error [% of span]
0.0000	0.00	4.0000	3.9716	-0.178
2.500	2.50	8.000	7.9818	-0.114
5.000	5.01	12.000	12.0002	-0.099
7.500	7.36	16.000	15.7703	-0.036
10.000	10.08	20.000	20.1319	0.024
7.500	7.55	16.000	16.0825	0.016
5.000	5.15	12.000	12.2193	-0.129
2.500	2.40	8.000	7.8246	-0.096
0.0000	0.00	4.0000	3.9747	-0.158

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/6/2025 9:33:03 AM

**Calibration Report: SCR Differential Pressure Sensor
Unit 2 PDIT-403**

Calibration Certificate

Printed: 1/7/2025 1:44:41 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 2-PDIT-403

Position

Name U2 SCR DP
 Work Order Number
 Location U2 ERU
 Plant CANYON/ERU/U2/

Device

Device ID 2-PDIT-403
 Serial Number
 Manufacturer Rosemount 3051S2CD1A2F12A1AB3E5L4M5Q4
 Rangeability
 Operating Operating Humidity

Function

Name U2 SCR DP (ud)
 Transfer Function Linear
 Range 0 ... 10 inH2O (G) 4 ... 20 mA

Calibration Event

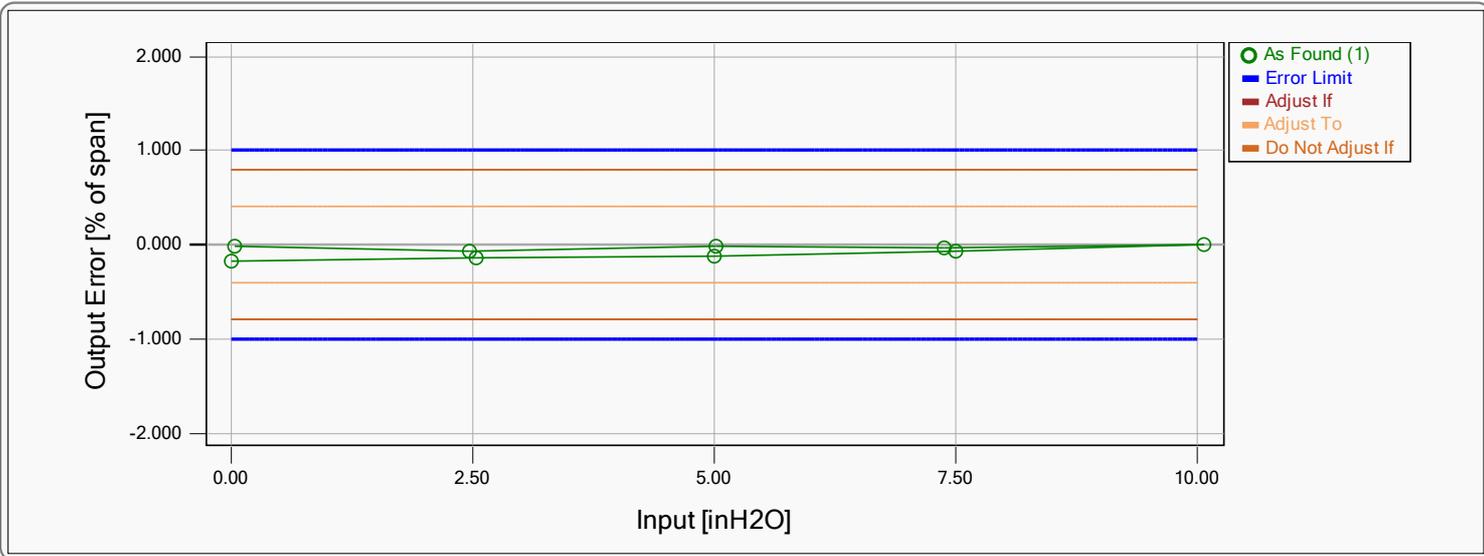
Calibration time 1/6/2025 10:22:25 AM
 Next Calibration
 Environment Environment

Calibration Procedure

Due Date 1/6/2026 Interval 1 years
 Reject If Error > 1 % of span
 Adjust To Error < 40 % of Reject If Error Classification
 Calibration Strategy

Calibrators

Input Calibrator MC6 : 605835 Due Date: 2/6/2025
 Input Module P2C : 69381 Due Date: 2/6/2025
 Output Calibrator MC6 : 605835 Due Date: 2/6/2025
 Output Module IN : 25613 Due Date: 2/1/2025



1. As Found PASSED, DO NOT ADJUST

Maximum Error: -0.170 % of span

Nominal Input [inH2O]	Actual Input [inH2O]	Nominal Output [mA]	Actual Output [mA]	Found Error [% of span]
0.0000	0.00	4.0000	3.9728	-0.170
2.500	2.55	8.000	8.0582	-0.136
5.000	5.00	12.000	11.9812	-0.118
7.500	7.51	16.000	16.0052	-0.068
10.000	10.08	20.000	20.1288	0.005
7.500	7.39	16.000	15.8182	-0.036
5.000	5.02	12.000	12.0298	-0.014
2.500	2.47	8.000	7.9398	-0.076
0.0000	0.05	4.0000	4.0766	-0.021

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/6/2025 10:22:25 AM

**Calibration Report: SCR Differential Pressure Sensor
Unit 3 PDIT-403**

Calibration Certificate

Printed: 1/7/2025 1:47:22 PM
Printed by: vnguyen
CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 3-PDIT-403

Position

Name U3 SCR DP
Work Order Number
Location U3 ERU
Plant CANYON/ERU/U3/

Device

Device ID 3-PDIT-403
Serial Number
Manufacturer Rosemount 3051S2CD1A2F12A1AB3E5L4M5Q4
Rangeability
Operating Operating Humidity

Function

Name U3 SCR DP (ud)
Transfer Function Linear
Range 0 ... 10 inH2O (G) 4 ... 20 mA

Calibration Event

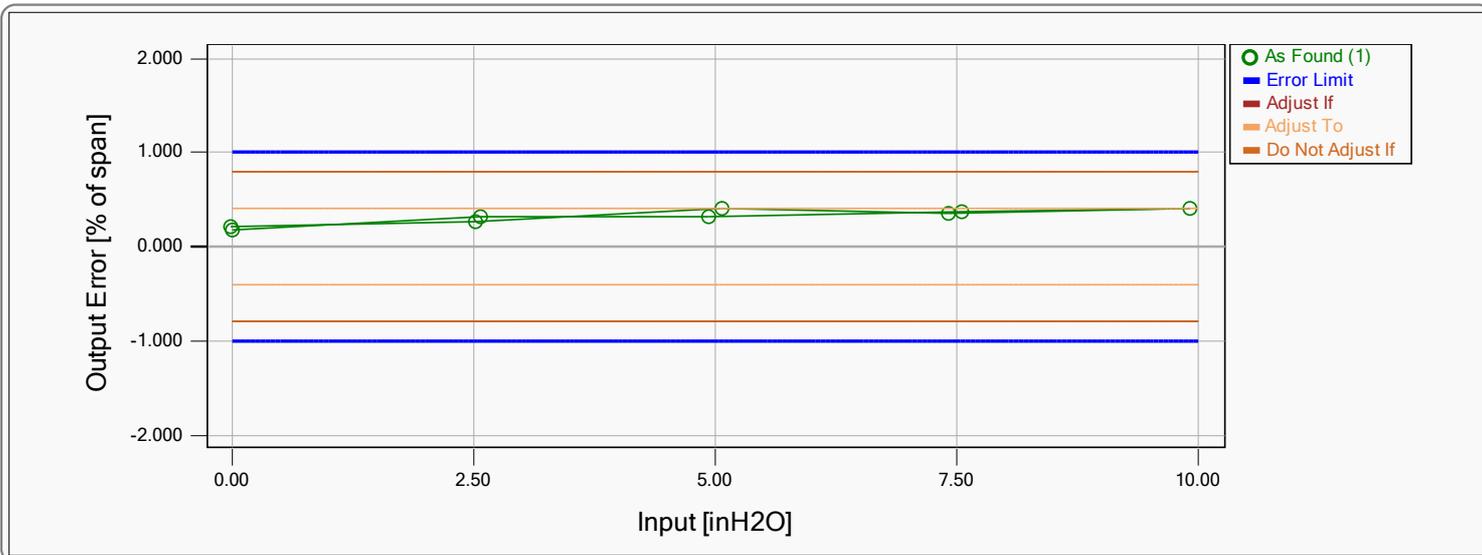
Calibration time 1/6/2025 10:57:52 AM
Next Calibration
Environment Environment

Calibration Procedure

Due Date 1/6/2026 Interval 1 years
Reject If Error > 1 % of span
Adjust To Error < 40 % of Reject If Error Classification
Calibration Strategy

Calibrators

Input Calibrator MC6 : 605835 Due Date: 2/6/2025
Input Module P2C : 69381 Due Date: 2/6/2025
Output Calibrator MC6 : 605835 Due Date: 2/6/2025
Output Module IN : 25613 Due Date: 2/1/2025



1. As Found

PASSED, DO NOT ADJUST

Maximum Error: 0.408 % of span

Nominal Input [inH2O]	Actual Input [inH2O]	Nominal Output [mA]	Actual Output [mA]	Found Error [% of span]
0.0000	0.00	4.0000	4.0283	0.177
2.500	2.57	8.000	8.1621	0.313
5.000	4.94	12.000	11.9549	0.318
7.500	7.56	16.000	16.1557	0.373
10.000	9.93	20.000	19.9525	0.403
7.500	7.42	16.000	15.9276	0.348
5.000	5.07	12.000	12.1772	0.408
2.500	2.52	8.000	8.0729	0.256
0.0000	-0.01	4.0000	4.0185	0.216

Calibration Note:

Calibrated by: VINCENT NGUYEN
1/6/2025 10:57:52 AM

**Calibration Report: SCR Differential Pressure Sensor
Unit 4 PDIT-403**

Calibration Certificate

Printed: 1/7/2025 1:48:55 PM
 Printed by: vnguyen
 CMX Version: 2.14.114.0 (2.14)

Certificate Number:
Position ID: 4-PDIT-403

Position

Name U4 SCR DP
 Work Order Number
 Location U4 ERU
 Plant CANYON/ERU/U4/

Device

Device ID 4-PDIT-403
 Serial Number 393481
 Manufacturer Rosemount 3051C
 Rangeability
 Operating Operating Humidity

Function

Name U4 SCR DP (ud)
 Transfer Function Linear
 Range 0 ... 10 inH2O (G) 4 ... 20 mA

Calibration Event

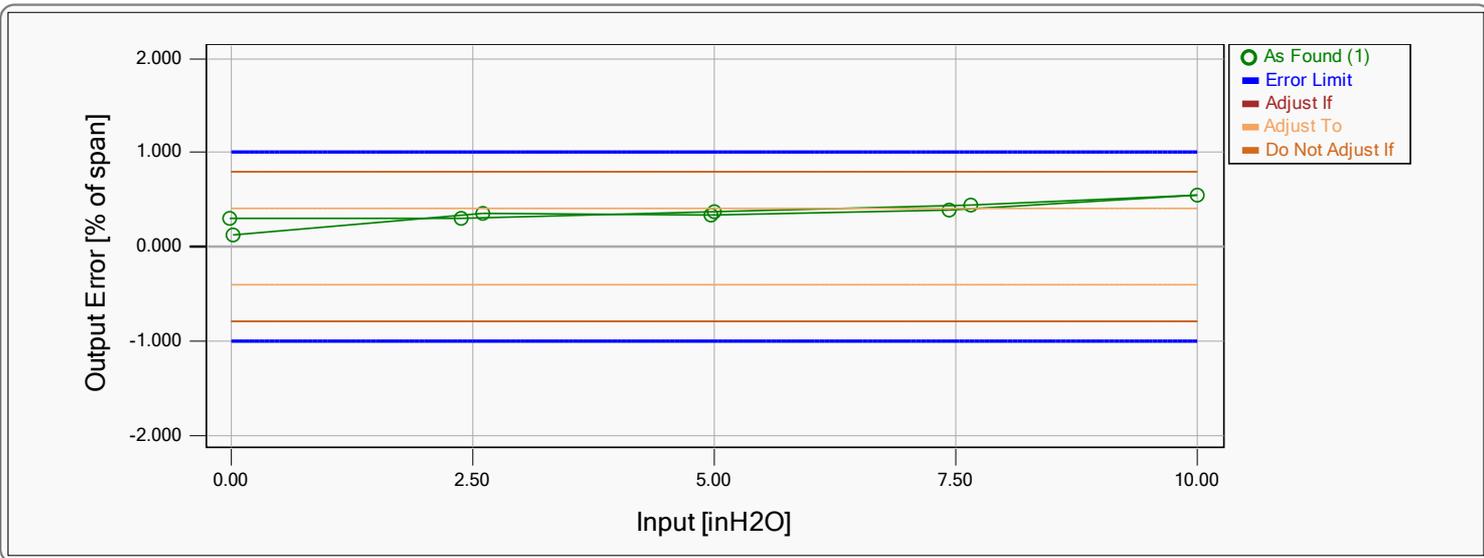
Calibration time 1/6/2025 1:24:17 PM
 Next Calibration
 Environment Environment

Calibration Procedure

Due Date 1/6/2026 Interval 1 years
 Reject If Error > 1 % of span
 Adjust To Error < 40 % of Reject If Error Classification
 Calibration Strategy

Calibrators

Input Calibrator MC6 : 605835 Due Date: 2/6/2025
 Input Module P2C : 69381 Due Date: 2/6/2025
 Output Calibrator MC6 : 605835 Due Date: 2/6/2025
 Output Module IN : 25613 Due Date: 2/1/2025



1. As Found PASSED, DO NOT ADJUST

Maximum Error: 0.550 % of span

Nominal Input [inH2O]	Actual Input [inH2O]	Nominal Output [mA]	Actual Output [mA]	Found Error [% of span]
0.0000	0.03	4.0000	4.0668	0.118
2.500	2.61	8.000	8.2313	0.346
5.000	4.98	12.000	12.0229	0.343
7.500	7.44	16.000	15.9672	0.395
10.000	10.00	20.000	20.0880	0.550
7.500	7.67	16.000	16.3431	0.444
5.000	5.01	12.000	12.0756	0.373
2.500	2.38	8.000	7.8550	0.294
0.0000	-0.01	4.0000	4.0317	0.298

Calibration Note:

Calibrated by: VINCENT NGUYEN
 1/6/2025 1:24:17 PM

CANYON POWER PLANT
ANNUAL COMPLIANCE REPORT
ATTACHMENT 21
WASTE-10
COOLING TOWER SLUDGE TESTING

No Sludge developed for CY 2025

THIS IS THE LAST PAGE OF THIS DOCUMENT