Ormond Beach Power, LLC
Ormond Beach Generating Station
6635 S. Edison Drive
Oxnard, CA 93033

February 6, 2025

Mr. Steve Bova
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

RE: 2024 Title V Annual Compliance Certification
Ormond Beach Power, LLC
Ormond Beach Generating Station
Permit No. 00065

Dear Mr. Bova:

Ormond Beach Power, LLC is submitting the 2024 Title V Annual Compliance Certification Report for the Ormond Beach Generating Station (Federal Operating Permit No. 00065, permit term October 16, 2019, to December 31, 2023) located in Oxnard, CA.

Please find enclosed VCAPCD Signature Cover Form - Certification by Responsible Official, Permit Attachment Form and supporting documents. These documents serve as the annual certification for the period January 01, 2024, through December 31, 2024, and the deviation report for the period January 01, 2024, through December 31, 2024.

If you have any questions or require additional information, please do not hesitate to contact me at (805) 341-6167 or roger.kahle@genon.com.

Sincerely,
Ormond Beach Generating Station

Roger Kahle
Environmental Specialist

cc: Ms. Roshni Brahmbhatt
Enforcement & Compliance Enforcement Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Enclosures

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
SIGNATURE COVER FORM

TV Permit # 00065

A copy of each Annual Compliance Certification shall be submitted to EPA, Region 9, at the following address:

Ms. Roshni Brahmbhatt
Enforcement & Compliance Enforcement Division
EPA Region 9
75 Hawthorne Street
San Francisco, CA 94105

Confidentiality

All information in a Part 70 permit compliance certification is public information. The Part 70 permit is also public information.

Certification by Responsible Official

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this compliance certification are true, accurate, and complete.

Signature and Title of Responsible Official:	Date:
Title: Plant Manager	2-13-2025

Time Period Covered by Compliance Certification

01 / 01 / 24 (MM/DD/YY) to 12 / 31 / 24 (MM/DD/YY)

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Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY)

Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 59N1, Condition #1	D. Frequency of monitoring:
B. Description: NOx Emission Limit Condition 1a – Certified CEMS data demonstrates that there have been no exceedances of the 0.10 lbs/NMW-hr limit. Condition 1b – Ormond Beach is prohibited from burning fuel oil in these units. None was burned during the compliance certification time period. Condition 1c – Ormond Beach is prohibited from burning mixed fuel oil/natural gas in these units. None was burned during the compliance certification time period.	Continuous E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Emission Calculations	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N1, Condition #2	D. Frequency of monitoring:
B. Description: Oil Burned During Force Majeure Ormond Beach Generating Station is only permitted to burn natural gas in its boilers.	Continuous E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Fuel Usage Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N1, Condition #3	D. Frequency of monitoring:
B. Description: NH3 Emissions The Annual Ammonia Slip test for Unit 1 was conducted on June 11, 2024 and the average ammonia slip result was 1.3 ppm @ 3% O_2, which is within the 10 ppmv limit. No Annual Ammonia Slip test was required for Unit 2 due to insufficient quarterly operating hours.	Continuous E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable BAAQMD method ST-1B dated 01/20/1982
C. Method of monitoring: Source Testing	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 59N1, Condition #4	D. Frequency of monitoring: Continuous
B. Description: Cold Start-up waiver for NOx and NH3 Emission Limits The Unit 1 and Unit 2 cold start log is documented and maintained on site. Plant records indicate that no cold start-up lasted more than 20 hours, nor have any excess NOx emissions lasted longer than a cold start-up procedure.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Operator Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N1, Condition #5	D. Frequency of monitoring: Continuous
B. Description: NOx lbs/NMW-Hr Condition 5a - CEMs are used to monitor and calculate the NOx emission rate. Condition 5b - The megawatt metering calibration test was performed on 12/28/2024 Condition 5c - The hourly lb/NMW-hr NOx is measured according to the procedures in 40 CFR 75.10(d)(1). Condition 5d - The documents are retained at the plant and available for District review.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records, physical inspection, and Emission Calculations	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N1, Conditions #6 & #7	D. Frequency of monitoring: Continuous
B. Description: Hourly Recordkeeping The Station maintains operational records as detailed in Conditions 6 and 7. Such records are provided to the District every quarter and made available to the District upon request.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Operator Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY) Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 59N3, Condition #1	D. Frequency of monitoring:
B. Description: NOx Limits (Aux Boilers) 0.040 lbs/MMBTU There were no Auxiliary Boiler exceedances in 2024.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Emission Calculations	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N3, Condition #2	D. Frequency of monitoring:
B. Description: Cold Start-up, NOx Emission Limits The North Auxiliary Boiler cold starts and South Auxiliary Boiler cold starts are logged and maintained on site during the compliance period. These units are subject to a 4-hour NOx emission exemption period.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Operator Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 59N3, Condition #3	D. Frequency of monitoring:
B. Description: NOx Limits (Aux Boilers) calculation method Hourly natural gas emissions figures are calculated as required by this permit condition.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Records and Emission Calculations	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 59N3, Conditions #4 - #5	D. Frequency of monitoring: Continuous
B. Description: Record keeping Daily and hourly records are maintained as required.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMS Records and Operator Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 74.9N7 , Conditions #1 - #4	D. Frequency of monitoring: Periodic
B. Description: Stationary Internal Combustion Engines Condition 1 - Hourly operating records verify compliance with the 50 hour annual limit. Condition 2 - A non-resettable elapsed hour meter is operated on the unit. Condition 3 - The Cummins model NTA 855-G5 emergency generator is located in the emergency generator building next to (south of) the administration building. Condition 4 - Calendar year hours of maintenance and operation are reported by Feb 15.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Maintenance and Operating Logs	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachement ATCM Engine N2, Conditions #1 - #3	D. Frequency of monitoring: Periodic
B. Description: Fuel Use and Operation Recordkeeping Condition 1 - Only CARB Diesel Fuel is used at the facility Condition 2 - Maintenance and testing operation of the emergency generator is limited to 20 hr/yr and is logged monthly Condition 3 - Records of operation and fuel purchased (type and quantity) are maintained on site.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Purchase Records and Operation Log	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment RICE MACT, Conditions #1 - #2	D. Frequency of monitoring: Periodic
B. Description: Maintenance and Operation Recordkeeping Condition 1 – Engines inspected, serviced and oil changed annually or every 500 hours Condition 2 – Operated according to manufacturer specifications	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Generator Service Report	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment RICE MACT, Conditions #3 - #9	D. Frequency of monitoring: Continuous
B. Description: Operation Recordkeeping Condition 3 – The engine is equipped with a non-resettable timer Condition 4 – Engine idle time is restricted to less than 30 minutes per event Condition 5-9 – Operation is limited to less than the 100 hours and in compliance with 40 CFR part 63, Subpart ZZZZ (RICE MACT).	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Maintenance and Operation Log	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 103N1-65, Conditions #1 - #3	D. Frequency of monitoring: Continuous
B. Description: Continuous Monitoring Systems Conditions 1, 2 – A CEMS system is installed on Unit 1 and Unit 2. The CEMS system is operated and maintained at the station and meets the requirements of Rule 103.A.1 and 103.C.1. Condition 3 - Monitored violations are reported to the District within 96 hours of each occurance pursuant with Rule 103.B.1.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 103N1-65, Conditions #4 - #6	D. Frequency of monitoring: Continuous
B. Description: Continuous Monitoring Systems Condition 4 – Permanent CEMS records are maintained as required. Condition 5 – Data is reduced according to Appendix F of 40 CFR Part 75. Condition 6 - CEMS and excess emission reports are submitted to the District quarterly.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 103N3-65, Conditions #1 - #3	D. Frequency of monitoring: Continuous
B. Description: Continuous Monitoring Systems Conditions 1, 2 – A CEMS system is installed on AUX-N and AUX-S. The CEMS system is operated and maintained at the station and meets the requirements of Rule 103.A.3 and 103.C.3. Condition 3 – Monitored violations are reported to the District within 96 hours of each occurance pursuant with Rule 103.B.1.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 103N3-65, Conditions #4 - #6	D. Frequency of monitoring: Continuous
B. Description: Continuous Monitoring Systems Condition 4 – Permanent CEMS records are maintained as required. Condition 5 – Data is reduced as required by the condition. Condition 6 - CEMS and excess emission reports are submitted to the District quarterly.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: PO00065PC1-231, Conditions #1 - #2	D. Frequency of monitoring: Continuous
B. Description: General Recordkeeping Requirements and Solvent Cleaning Additional Requirements Condition 1 - Monthly record-keeping of permitted throughput and consumption are maintained on-site. Condition 2 - Ormond Beach only uses cleaning products in non-refillable aerosol cans (Rule F.6) and <160 oz. per day, <25g/liter of ROC or SCAQMD Clean Air Solvents . Records are maintained on-site.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Rules 26 and 29 Fuel Throughput/Consumption and Rule 29 Solvent Usage Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: PO00065PC2, Conditions #1 - #2, #3 - #4, #5	D. Frequency of monitoring: Continuous
B. Description: Rule 26 Permitted Throughput and Consumption Limit for Unit 1 and 2, Aux. Boilers and Rule 29 Natural Gas Only Requirement Conditions 1, 2 - Monthly and rolling 12-month records are maintained on-site. Conditions 3, 4 - Units 1 and 2 and the north and south auxiliary boilers only fire natural gas. Condition 5 - Emissions and fuel records and source test reports are maintained on-site.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Fuel Usage, Emission Records, and Test Reports	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 50, Conditions #1 – #4	D. Frequency of monitoring: Periodic
B. Description: Opacity Limitations Method 9 opacity readings were done on the following sources during the compliance period; records are attached verifying no visible emissions Main Units Auxiliary Boilers Emergency Generator	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Routine Visual Surveillance and Certification Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 54.B.1, Conditions #1 - #3	D. Frequency of monitoring: Annually
B. Description: Sulfur Compounds Compliance with Rule 64 ensures compliance with this rule based on District analysis. Compliance is assured because only PUC–regulated natural gas is combusted at the facility.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Natural Gas Analyses for Sulfur	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 54.B.2, Conditions #1 - #4	D. Frequency of monitoring: Annually
B. Description: Sulfur Compounds Ground Level Units 1, 2, and the auxiliary boilers burn PUC–quality natural gas. A fuel sulfur sample analysis is conducted annually to ensure compliance. Laboratory analysis of natural gas sample dated June 24, 2024 confirms compliance.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Recordkeeping, Natural Gas Analyses for Sulfur and Modeling Demonstration	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 55, Conditions #1 - #7	D. Frequency of monitoring:
B. Description: Fugitive Dust There are no operations, disturbed surface areas, or man-made conditions subject to Rule 55.	Periodic
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: On-site Operations Review - Permit Condition Not Currently Applicable	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 57.1, Conditions #1 - #3	D. Frequency of monitoring:
B. Description: Particulate Emissions from Fuel Burning Equipment Periodic Monitoring not required. District Rule 57.B analysis dated 12/03/97 is sufficient to certify compliance.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Rule 57.B District Analysis	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 64.B.1, Conditions #1 - #4	D. Frequency of monitoring:
B. Description: Sulfur Content of Gaseous Fuels Only PUC-regulated Natural Gas is combusted at this facility. Records are available on site.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Natural Gas Analyses for Sulfur	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 64.B.2, Conditions #1 - #3	D. Frequency of monitoring: Continuous
B. Description: Sulfur Content of Liquid Fuel The site uses CARB-approved diesel exclusively in the emergency generator. Gasoline and diesel purchase records are maintained onsite for District review; delivery records are available for confirming use of CARB-certified diesel fuels. Gasoline is purchased from a local gasoline station.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: CARB Diesel Fuel Delivery Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 74.6, Conditions #1 - #15	D. Frequency of monitoring: Continuous
B. Description: Surface Cleaning and Degreasing Regulated cleaning products used at Ormond Beach are dispenced in non-refillable aerosol cans. Records are maintained onsite.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Routine surveillance of Solvent Usage and Activity Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 74.11.1, Conditions #1 - #4	D. Frequency of monitoring: N/A
B. Description: Large Water Heaters and Small Boilers Only electric water heaters are used at the site and no small boilers exist at the facility, consiquently, Rule 74.11.1 is not applicable.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Equipment Design Record Review - Permit Condition Not Currently Applicable	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 74.22, Conditions #1 - #3	D. Frequency of monitoring: N/A
B. Description: Natural gas Fired Fan-type Central Furnaces No natural gas-fired fan-type central furnaces, to which this attachment applies, exist at the facility, compliance with the requirements is not required.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Equipment Design Record Review - Permit Condition Not Currently Applicable	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 74.1, Conditions #1 - #7	D. Frequency of monitoring: N/A
B. Description: Abrasive Blasting Bead blast was replaced with a Zero Emissions enclosed blast unit in October 2014 - Permit Condition Not Currently Applicable	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Onsite Operations Review - Permit Condition Not Currently Applicable	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 74.2, Conditions #1 - #6	D. Frequency of monitoring: Continuous
B. Description: Architectural Coatings Facility maintains records of paints used and VOC content for District review. Contractors who maintain an Architectural Coating Permit are employed for coating and the contractor maintains their usage and VOC records for District review in accordance with their permit.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Routine Surveillance of GenOn Paint Usage and Activity Records. Contractor maintains their own permit with the District	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

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A. Attachment # or Permit Condition #: Attachment 74.29N3, Conditions #1 - #14	D. Frequency of monitoring: N/A
B. Description: Soil Decontamination Operations No soil remediation has taken place at the Ormond Beach Generating Station.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Onsite Operations Review - Permit Condition Not Currently Applicable	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 40CFR61.M, Conditions #1 - #2	D. Frequency of monitoring: Periodic
B. Description: Asbestos Standard Inspection, Notification, and Contractor Records are maintained on-site.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Inspection, Notification, and Contractor Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #1 - #4	D. Frequency of monitoring: Continuous
B. Description: General Part 70 Permit Conditions Condition 1 - Compliance status of each federally enforceable condition is reviewed. Condition 2 - Facility strives to comply with all applicable conditions. Condition 3 - Deviations from Part 70 requirements are reported within 4 hours after detection. Condition 4 - Facility understands that the need to halt an activity to comply is not a defense against enforcement action	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Title V Reports and Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY)

Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #5	D. Frequency of monitoring:
B. Description: General Part 70 Permit Conditions Condition 5 - All required records, monitoring data, and support information are maintained for a period of 5 years.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Title V Reports and Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #6 - #7	D. Frequency of monitoring:
B. Description: General Part 70 Permit Conditions Condition 6 – Upon request, facility furnishes District-requested information within a reasonable time. Condition 7 - Facility provides District access to facilities and records.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Title V Reports and Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #8 - #10	D. Frequency of monitoring:
B. Description: General Part 70 Permit Conditions Condition 8 - Facility understands that the permit may be modified, revoked, reopened, reissued, or terminated for cause Condition 9 - Facility understands that the permit may be reopened by the District under specific conditions. Condition 10 - Facility strives to pay all fees in a timely manner to maintain the permit active.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Title V Reports and Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY) Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #11 - #15	D. Frequency of monitoring: Continuous
B. Description: General Part 70 Permit Conditions Condition 11 - Facility recognizes that the permit does not provide any specific property rights Condition 12 - Facility recognizes that the permit provisions are severable. Condition 13 - Facility recognizes that an application for permit renewal is required no more than 18 months and no less than 6 months prior to the expiration date Condition 14 - Facility recognizes that any document submitted on behalf of this permit must be certified by a responsible official Condition 15 - Facility submits a certification of compliance with all applicable requirements to the District and EPA on an annual basis.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Title V Reports and Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment PO General, Conditions #1 - #2	D. Frequency of monitoring: Continuous
B. Description: General Permit to Operate Conditions Condition 1 - Facility recognizes that petitions to review or revise conditions issued on a permit to operate must be submitted within 30 days of receipt of permit to operate. Condition 2 - Facility maintains copies of the permit reasonably close to the equipment and readily accessible for District review.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment PO General, Conditions #3 - #4	D. Frequency of monitoring: Continuous
B. Description: General Permit to Operate Conditions Condition 3 - Facility recognizes that equipment that is not permitted as portable is not transferable from one location to another Condition 4 - Facility recognizes that the District may suspend the permit if District is denied access to requested information within a reasonable amount of time	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY)

Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment SHIELD - D, Da, Db	D. Frequency of monitoring:
B. Description: Permit Shield - New Source Performance Standards Facility periodically reviews applicability of identified NSPS subparts	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Periodic Review of Potentially Applicable Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 40CFR68RMP-65	D. Frequency of monitoring:
B. Description: Risk Management Plan The site has a current and complete federal Risk Management Plan on-file with the Oxnard Fire Department's Certified Unified Program Agency (CUPA).	Annually
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Risk Management Plan Documentation and Review	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: Attachment 40CFR72-78	D. Frequency of monitoring:
B. Description: Acid Rain Program Facility maintains records to ensure compliance with monitoring, emission limits, recordkeeping, and reporting requirements.	Continuous
	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Periodic Review of Requirements	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
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ANNUAL COMPLIANCE CERTIFICATION
PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) to 12/31/24 (MM/DD/YY)

Ormond Beach Generating Station

A. Attachment # or Permit Condition #: Attachment 40CFR82	D. Frequency of monitoring: Continuous
B. Description: Protection of Stratospheric Ozone Certified contractors are used to conduct any air conditioning work in the plant.	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A
C. Method of monitoring: Inspection, Notification, and Contractor Records	F. Currently in Compliance? (Y or N): Y G. Compliance Status? (C or I): C H. *Excursions, exceedances, or other non-compliance? (Y or N): N *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: INTENTIONALLY LEFT BLANK	D. Frequency of monitoring:
B. Description:	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring:	F. Currently in Compliance? (Y or N): _____ G. Compliance Status? (C or I): _____ H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ *If yes, attach Deviation Summary Form

A. Attachment # or Permit Condition #: INTENTIONALLY LEFT BLANK	D. Frequency of monitoring:
B. Description:	E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable
C. Method of monitoring:	F. Currently in Compliance? (Y or N): _____ G. Compliance Status? (C or I): _____ H. *Excursions, exceedances, or other non-compliance? (Y or N): _____ *If yes, attach Deviation Summary Form

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION

SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) 12/31/24 (MM/DD/YY)

A. Emission Unit Description: Ormond Beach Unit 1			B. Pollutant: NO_x
C. Measured Emission Rate: 0.0%	D. Limited Emission Rate: 0.10 lbs./NMWh	E. Specific Source Test or Monitoring Record Citation: Attachment 59N1, Condition 1	F. Test Date: 06/11/20244

A. Emission Unit Description: Ormond Beach Unit 1			B. Pollutant: NH_3
C. Measured Emission Rate: 1.33ppm @ 3% O_2	D. Limited Emission Rate: 10 ppmv	E. Specific Source Test or Monitoring Record Citation: Attachment 59N1, Condition 3	F. Test Date: 06/11/2024

A. Emission Unit Description: Ormond Beach Unit 2			B. Pollutant: NO_x
C. Measured Emission Rate: lnsufficient runtime to require a RATA	D. Limited Emission Rate: 0.10 lbs./NMWh	E. Specific Source Test or Monitoring Record Citation: Attachment 59N1, Condition 1	F. Test Date:

A. Emission Unit Description: Ormond Beach Unit 2			B. Pollutant: NH_3
C. Measured Emission Rate: lnsufficient runtime to require a Ammonia Slip	D. Limited Emission Rate: 10 ppmv	E. Specific Source Test or Monitoring Record Citation: Attachment 59N1, Condition 3	F. Test Date:

Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION
DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01/01/24 (MM/DD/YY) 12/31/24 (MM/DD/YY)

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time Begin: End: When Discovered:
There were no deviations in 2024		
D. Parameters monitored:	E. Limit:	F. Actual:
G. Probable Cause of Deviation:	H. Corrective actions taken:	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time Begin: End: When Discovered:
D. Parameters monitored:	E. Limit:	F. Actual:
G. Probable Cause of Deviation:	H. Corrective actions taken:	

A. Attachment # or Permit Condition #:	B. Equipment description:	C. Deviation Period: Date & Time Begin: End: When Discovered:
D. Parameters monitored:	E. Limit:	F. Actual:
G. Probable Cause of Deviation:	H. Corrective actions taken:	

2024
ANNUAL COMPLIANCE CERTIFICATION
ATTACHMENTS

ORMOND BEACH GENERATING STATION
PERMIT NO. 00065

ATTACHMENTS

1. AMMONIA SLIP TEST
2. COLD START-UP LOG
3. HIGH ACCURACY METER TEST
4. EMERGENCY GENERATOR RUN-TIME REPORT
5. CARB APPROVED DIESEL FUEL USE
6. RICE NESHAP ZZZZ REPORT
7. EMERGENCY GENERATOR ANNUAL SERVICE
8. SOLVENT & AEROSOL USE LOG
9. CUMMULATIVE EMISSIONS OPERATING HOURS & FUEL USE
10. VISUAL EMISSIONS REPORT
11. ANNUAL GAS CERTIFIACTION
12. ASBESTOS NOTIFICATIONS
13. RELATIVE ACCURACY TEST AUDIT
14. V-CONE CALIBRATION REPORT
15. LINEARITY REPORT

AMMONIA SLIP TEST

TEST REPORT FOR
2024 ANNUAL AMMONIA SLIP TEST AT
ORMOND BEACH POWER, LLC
UNIT 1

Prepared For:

Ormond Beach Power, LLC
Ormond Beach Generating Station
6635 S. Edison Drive
Oxnard, California 93033

For Submittal To:

Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor
Ventura, California 92876

Prepared By:

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

John Peterson

Test Date: **June 11, 2024**
Production Date: **July 15, 2024**
Report Number: **W002AS-041566-RT-6249**

MONTROSE AIR QUALITY SERVICES

STAC STACK TESTING ACCREDITATION COUNCIL

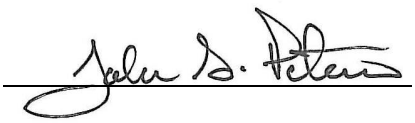
A2LA ACCREDITED TO ASTM D7036 ONLY CERT #3925.01

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.

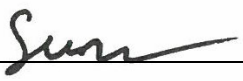
REVIEW AND CERTIFICATION

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: 7/15/2024

Name: John Peterson Title: District 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: 7/15/2024

Name: Surya Adhikari Title: Reporting/QC Specialist

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by Ormond Beach Power, LLC (Ormond Beach) to perform the annual ammonia slip test at Ormond Beach Unit 1 as required by Authority to Construct Number 0065, Condition Number 11. This report documents the results of the ammonia slip test performed on June 11, 2024. The test was conducted in accordance with the test plan Document Number W002AS-026975-PP-750 submitted to Ormond Beach on April 21, 2023. The test was performed by John Peterson, Adrian Enwright, Travis Maestri, and Patrick Rubio of MAQS. John Peterson and Adrian Enwright were the on-site Qualified Individuals for MAQS. Roger Kahle and Sheila Reilly of Ormond Beach Power, LLC coordinated and documented unit operation during the test. Ed Swede of the Ventura County Air Pollution Control District was on-site to witness the NH_3 slip test.

The test consisted of triplicate, 36-minute, ammonia tests which were performed while the unit was operating at a steady operating condition of 261.1 gross megawatts. The results of the tests are summarized in Table 1-1. The table shows that the ammonia slip from this unit was less than the permitted limit of 10 ppm corrected to 3% O_2.

Section 2.0 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 3.0. Section 4.0 provides the results of the test. All raw data, calculations, quality assurance data, unit operating conditions, and CEMS data are provided in the appendices.

TABLE 1-1
AMMONIA SLIP TEST RESULTS SUMMARY
ORMOND BEACH GENERATING STATION
UNIT 1
JUNE 11, 2024

Parameter/Units	Average Measured Value	Permit Limit
Load, MW	261.1	--
O_2, %	3.92	--
NH_3		
ppm	1.26	--
ppm @ 3% O_2	1.33	10
lb/hr	1.66	--
lb/MMBtu	0.0006	--
lb/MMSCF	0.63	--

2.0 UNIT AND CEMS DESCRIPTION

2.1 UNIT DESCRIPTION

Unit 1 at the Ormond Beach Generating Station consists of a utility boiler and steam turbine electric generator. The boiler and generator have a full load rating of 750 megawatts. The boiler is fired on natural gas only. The unit is equipped with selective catalytic reduction (SCR) for NO_x reduction.

2.2 CEMS DESCRIPTION

NO_x emissions from the unit is monitored by a dry, extractive Continuous Emission Monitoring System (CEMS). Stack flow rate is determined from fuel flow rate, O_2 concentration, standard F-Factor, and fuel higher heating value using EPA Method 19.

2.3 TEST CONDITIONS

The test was performed on June 11, 2024, with the unit operating at 35% of full load (261.1 gross megawatts). The test was performed while the unit was firing natural gas and operating under normal conditions. Unit operation was established by the operators and unit operations data are contained in the facility CEMS 1-minute printouts in the Appendix.

2.4 SAMPLE LOCATION

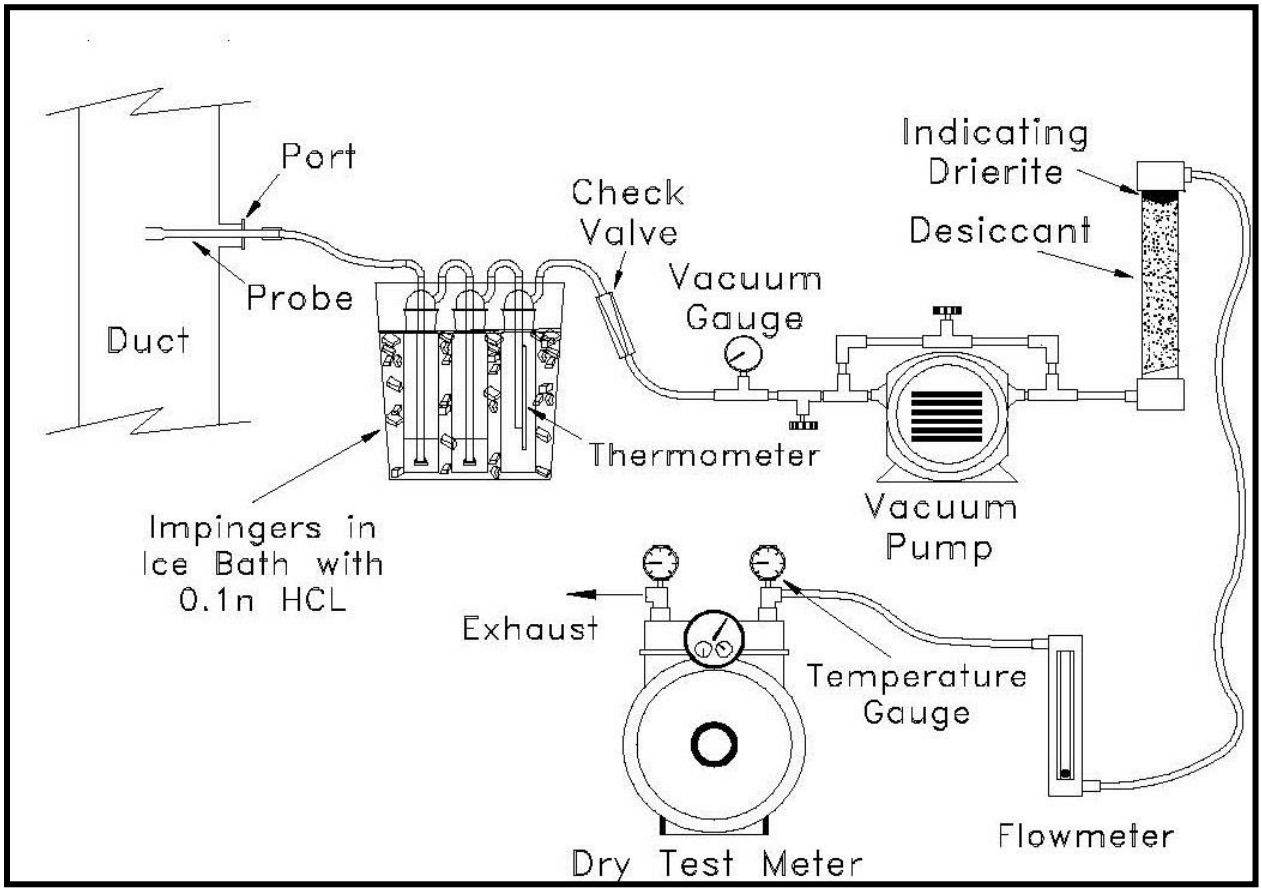
The reference method measurements were made from sample ports accessible from the stack sampling platform on the unit. There are four six-inch sample ports equally spaced at this location. The sample ports are located greater than 2.0 diameters downstream of the nearest flow disturbance and greater than 0.5 diameters from the stack exit. A diagram of the sample location and traverse points is located in Appendix A.1.

3.0 TEST DESCRIPTION

The test consisted of triplicate, 36-minute, flue gas samples which were collected non-isokinetically using Bay Area Air Quality Management District (BAAQMD) ST-1B. The sample gas was drawn through a Teflon sample line, two impingers each containing 100 ml of 0.1N HCl, an empty impinger, an impinger containing silica gel, and a dry gas meter. The test was performed using a 12-point traverse. Each traverse point was selected using EPA Method 1 and sampled for 3 minutes. The contents of the sample line and the first three impingers were recovered and analyzed by BAAQMD Lab Method-1A for ammonia concentration by ion specific electrode analysis. A diagram of the sampling equipment is presented as Figure 3-1.

Stack O_2 concentration and volumetric flow rate data were recorded from the certified Continuous Emission Monitoring System (CEMS) which is installed on the unit. These data were used to correct the ammonia concentration to 3% O_2 and to calculate the ammonia mass emission rate in units of pounds per hour.

FIGURE 3-1
BAAQMD METHOD ST-1B SAMPLING EQUIPMENT



4.0 TEST RESULTS AND OVERVIEW

4.1 TEST RESULTS

The results of the test are presented in Table 4-1. The results show that the average ammonia slip was 1.6 ppm @ 3% O_2 which is less than the permitted limit of 10 ppm @ 3% O_2.

TABLE 4-1
AMMONIA SLIP TEST RESULTS
ORMOND BEACH UNIT 1
JUNE 11, 2024

Parameter/Units	1-NH_3-1	2-NH_3-1	3-NH_3-1	Average	Limit
Start Time	15:00	15:48	16:35	--	--
End Time	15:39	16:27	17:14	--	
Load, MW	260.2	261.3	261.9	261.1	--
Stack Flow, dscfm @ T_{ref}(1)	497,900	498,700	501,200	499,267	--
O_2, %(1)	3.95	3.91	3.91	3.92	--
NO_x(1)	6.03	6.04	6.00	6.02	
ppm	6.37	6.36	6.32	6.35	--
ppm @ 3% O_2					--
NH_3					
ppm	1.30	1.32	1.15	1.26	--
ppm @ 3% O_2	1.38	1.39	1.21	1.33	10
lb/hr	1.72	1.74	1.53	1.66	--
lb/MMBtu	0.0006	0.0006	0.0005	0.0006	--
lb/MMSCF	0.65	0.66	0.57	0.63	--

(1) 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 BAAQMD ST-1B1 were satisfied.

APPENDIX A
TEST DATA

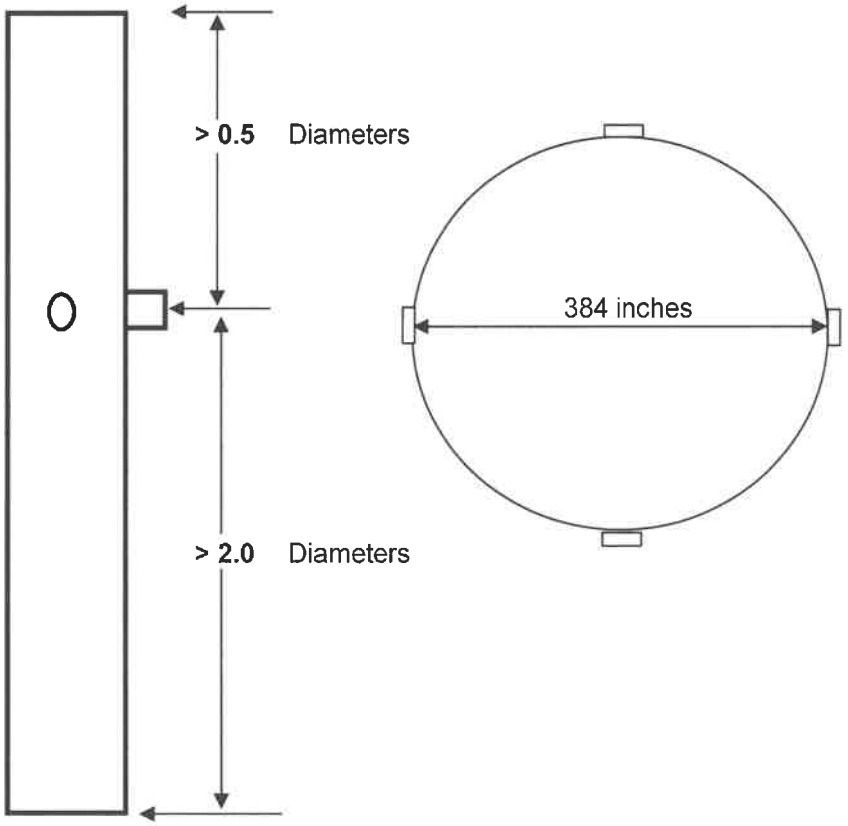
Appendix A.1
Sample Location Data

MONTROSE

METHOD 1 DATA SHEET
SAMPLE LOCATION

Client: GenOn Energy Date: 6/11/24

Sample Location: Unit 1 Performed By: JP/PR/TM/AE



Diameter (in.)	**384.0**
Upstream (ft.)	**> 64.0**
Downstream (ft.)	**> 16.0**
Coupling (in.)	**12.0**
Stack Area (ft^2)	**804.25**

Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
1	4.4	16.9	28.9
2	14.6	56.1	68.1
3	29.6	113.7	125.7
4	70.4	270.3	282.3
5	85.4	327.9	339.9
6	95.6	367.1	379.1

Appendix A.2
Sample Data Sheets

MONTROSE

BAY AREA AQMD AMMONIA WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: Ormond Beach
LOCATION: Unit 1
DATE: 06/11/24
RUN NO: 1-NH3
OPERATOR: PRUBIO
METER BOX NO: 5 WCS
METER ΔH@: 1.814
METER Yd: 0.991
STACK AREA, FT²:
TRAVERSE POINTS, MIN/POINT: 3/12pts
ΔH= 1 X ΔP:
Probe Condition, pre/post test: N
Silica Gel Expended, Y/N: N
Filter Condition after Test: N
Check Weight: 499.9/500.0

AMBIENT TEMPERATURE: 65 °F
BAROMETRIC PRESSURE: 29.81
ASSUMED MOISTURE: 15%
PITOT TUBE COEFF, Cp: NA
PROBE ID NO/MATERIAL: NA / SS
PROBE LENGTH: 11'
NOZZLE ID NO/ MATERIAL: NA
NOZZLE DIAMETER: NA
FILTER NO/TYPE: NA
PRE-TEST LEAK RATE: : <0.002 CFM@ 10 in. Hg.
POST-TEST LEAK RATE: <0.002 CFM@ 10 in. Hg.
PITOT LEAK CHECK - PRE: NA POST: NA
CHAIN OF CUSTODY: SAMPLE CUSTODIAN AE
SAMPLER PR
SAMPLE CUSTODIAN AE

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCL	871.8	710.9
2	0.1N HCL	734.4	733.5
3	Empty	640.7	639.6
4	Silica Gel	935.7	928.3
5	LR	0	100
6			
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
3	1500	390.900	N/A	1.5	N/A	N/A	N/A	60	76	76	5		
2	1503	392.940						60	76	76	5		
1	1506	394.925						57	76 77	75	5		
E	1509	396.945						~~57~~	~~77~~	~~75~~	PR		
3	1510	396.945						57	78	76	5		
2	1513	398.870						57	78	75	5		
1	1516	400.750						58	79	76	5		
E	1519	~~400~~ 402.810									5		
3	1520	402.810						60	79	76	4		
2	1523	404.750						59	80	76	5		
1	1526	406.735						60	81	76	5		
E	1529	408.825											
3	1530	408.825						60	81	76	5		
2	1533	410.810						60	82	76	5		
1	1536	412.895						60	82	77	5		
E	1539	414.930	↓	↓	↓	↓	↓						
Average:													

Comments:

MONTROSE

BAY AREA AQMD AMMONIA WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

W002AS-041566-RT-6249

CLIENT: Ormond Beach
LOCATION: Unit 2
DATE: 06/11/24
RUN NO: 3 - NH3
OPERATOR: P. Rubio
METER BOX NO: 5WCS
METER ΔH@: 1.814
METER Yd: 0.991
STACK AREA, FT²:
TRAVERSE POINTS, MIN/POINT: 3 / 12pts
ΔH= _____ X ΔP:
Probe Condition, pre/post test: Good/Good
Silica Gel Expended, Y/N: N
Filter Condition after Test: NA
Check Weight: 499.9/500.0

AMBIENT TEMPERATURE: 65°F
BAROMETRIC PRESSURE: 29.81
ASSUMED MOISTURE: 15%
PITOT TUBE COEFF, Cp: NA
PROBE ID NO/MATERIAL: NA/SS
PROBE LENGTH: 11'
NOZZLE ID NO/ MATERIAL: NA
NOZZLE DIAMETER: NA
FILTER NO/TYPE: NA
PRE-TEST LEAK RATE: : 0.002 CFM@ 11 in. Hg.
POST-TEST LEAK RATE: : 0.002 CFM@ 11 in. Hg.
PITOT LEAK CHECK - PRE: NA POST: NA
CHAIN OF CUSTODY: SAMPLE CUSTODIAN AE
SAMPLER PR
SAMPLE CUSTODIAN AE

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCL	895.5	706.5
2	0.1N HCL	735.1	735.2
3	Empty	641.3	640.7
4	Silica Gel	941.7	935.6
5	LR	-100	
6			
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
3	1635	441.710	NA	1.5	NA	NA	NA	60	79	77	5		
2	1638	443.670						59	80	77	5		
1	1641	145.635						56	80	77	5		
E	1644	447.580											
3	1645	447.580						55	79	77	5		
2	1648	449.565						53	80	76	5		
1	1651	451.550						54	80	76	5		
E	1654	453.615											
3	1655	453.615						55	82	78	5		
2	1658	455.610						55	80	76	5		
1	1701	457.610						55	80	76	5		
E	1704	459.625											
3	1705	459.625						56	79	76	5		
2	1708	461.670						53	79	76	5		
1	1711	463.710						55	79	75	5		
E	1714	465.875											
Average:													

Comments: _____

MONTROSE

BAY AREA AQMD AMMONIA WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: Ormond Beach
LOCATION: Unit 1
DATE: 06/11/24
RUN NO: 2-NH3
OPERATOR: PRubio
METER BOX NO: 5 WCS
METER ΔH@: 1.814
METER Yd: 0.991
STACK AREA, FT²:
TRAVERSE POINTS, MIN/POINT: 3/12 pts
ΔH= _____ X ΔP:
Probe Condition, pre/post test:
Silica Gel Expended, Y/N: N
Filter Condition after Test:
Check Weight: 444.4/500.0

AMBIENT TEMPERATURE: 65°F
BAROMETRIC PRESSURE: 29.81
ASSUMED MOISTURE: 15%
PITOT TUBE COEFF, Cp: NA
PROBE ID NO/MATERIAL: NA / SS
PROBE LENGTH: 11'
NOZZLE ID NO/ MATERIAL: NA
NOZZLE DIAMETER: NA
FILTER NO/TYPE: NA
PRE-TEST LEAK RATE: <0.002 CFM@ 10 in. Hg.
POST-TEST LEAK RATE: <0.002 CFM@ 10 in. Hg.
PITOT LEAK CHECK - PRE: NA POST: NA
CHAIN OF CUSTODY: SAMPLE CUSTODIAN AE
SAMPLER PR
SAMPLE CUSTODIAN AE

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCL	849.0	718.1	
2	0.1N HCL	742.9	741.6	
3	Empty	637.3	636.3	
4	Silica Gel	928.3	924.2	
5	LR	-100		
6				
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
3	1548	416.360	NA	1.5	NA	NA	NA	60	80	77	5		
2	1551	418.350						59	82	77	5		
1	1554	420.310						56	82	77	5		
E	1557	422.420											
3	1558	422.420						56	82	78	5		
2	1601	424.430						55	83	78	5		
1	1604	426.365						55	84	79	5		
PR E	1607	428.330											
3	1608	428.330						57	82	78	5		
2	1611	430.340						56	83	78	5		
1	1614	432.390						56	83	78	5		
E	1617	434.595											
3	1618	434.595						57	82	78	5		
2	1621	436.485						57	82	78	5		
1	1624	438.440						57	82	78	5		
E	1627	440.410											
Average:													

Comments: _____

Appendix A.3
Laboratory Data

Ammonia by Ion Selective Electrode Analysis

District Method: BAAQMD ST-1A

MONTROSE

Project Number: PROJ-041566
Client/Location: Ormund Beach
Sample Location: Unit 1
Slope: -55.9

Sample Date: 6/11/2024
Analysis Date: 6/11/2024
Analyst's Initials: AE

Sample	NH_3 conc. (µg/ ml, as N)	TV (ml)	Aliquot (ml)	DF	Spike (µg/ml as N)	µg NH_3/ sample	Recovery %	Temp. (°C) /pH
Standard Check: 4 µg NH_3/ml	4.03	------	49	1	0	------	100.8	22.4 / <2
1-NH_3	1.18	418.2	49	1	0	611.45	------	20.6/ <2
2-NH_3	1.12	443.6	49	1	0	615.61	------	21.1 / <2
3-NH_3	1.91	480.2	49	1	1	541.45	------	21.0 / <2
Standard Check: 4 µg NH_3/ml	3.96	------	49	1	0	------	99.0	22.0 / <2

Notes:

- Total volume of samples and standards used: 49 ml
- Volume of pH adjusting ISA used: 1 ml
- Absorbing solution: 0.1 N HCl
- DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.
- Dilution Factor = Volume diluted to / sample aliquot
- 1st Cal Point: 1.0 ppm NH_3 as N
- 2nd Cal Point:10.0 ppm NH_3 as N
- https://www.baaqmd.gov/~/media/files/records/mop/vol-3/mop-1a.pdf?la=en
- Slope acceptable values (-54 to -60)

Calculations:

- mg NH_3/sample = (mg/ ml NH3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
- mg/sample = (mg /sample)/ 1000
- ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 106

Appendix A.4
QA/QC Data

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Model #: Nutech
ID #: 5-WCS
Date: 4/24/2024
Bar. Pressure: 29.97 (in. Hg)
Performed By: L. Olivares
Reviewed By: Surya Adhikari

DRY GAS METER READINGS									CRITICAL ORIFICE READINGS					
					Initial Temps.		Final Temps.					Ambient Temperature		
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Inlet (deg F)	Outlet (deg F)	Inlet (deg F)	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	295.900	301.525	5.625	74.0	72.0	73.0	72.0	14742-33	0.1618	19.0	69.0	70.0	69.5
0.14	26.00	301.525	307.150	5.625	73.0	72.0	73.0	72.0	14742-33	0.1618	19.0	70.0	70.0	70.0
0.14	26.00	307.150	312.775	5.625	73.0	72.0	73.0	72.0	14742-33	0.1618	19.0	70.0	70.0	70.0
0.66	12.00	278.600	284.120	5.520	76.0	71.0	75.0	71.0	PK-48	0.3452	17.0	68.0	69.0	68.0
0.66	12.00	284.120	289.655	5.535	75.0	71.0	75.0	71.0	PK-48	0.3452	17.0	68.0	68.0	68.0
0.66	12.00	289.655	295.185	5.530	75.0	71.0	71.0	69.0	PK-48	0.3452	17.0	68.0	68.0	68.0
1.80	7.00	262.000	267.205	5.205	75.0	69.0	76.0	69.0	PK-63	0.5666	16.0	67.0	68.0	67.5
1.80	7.00	267.205	272.415	5.210	76.0	69.0	76.0	70.0	PK-63	0.5666	16.0	68.0	68.0	68.0
1.80	7.00	272.415	277.600	5.185	76.0	70.0	77.0	70.0	PK-63	0.5666	16.0	68.0	68.0	68.0
3.40	5.00	245.200	250.310	5.110	71.0	66.0	73.0	67.0	PK-73	0.7871	15.0	66.0	67.0	66.5
3.40	5.00	250.310	255.410	5.100	73.0	67.0	75.0	67.0	PK-73	0.7871	15.0	67.0	67.0	67.0
3.40	5.00	255.410	260.495	5.085	75.0	67.0	77.0	68.0	PK-73	0.7871	15.0	67.0	67.0	67.0

DRY GAS METER		ORIFICE			DRY GAS METER CALIBRATION FACTOR	ORIFICE CALIBRATION FACTOR				
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)	Individual Run 0.95 < Y < 1.05?	Individual Orifice Ymax - Ymin < 0.010?	Orifice Average 0.98 < Y/Yd < 1.02?	Orifice Average dH@ - dH@ av < 0.155?
5.584	158.1	5.479	155.2	5.488	0.981	1.763	Pass			
5.586	158.2	5.476	155.1	5.490	0.980	1.765	Pass			
5.586	158.2	5.476	155.1	5.490	0.980	1.765	Pass			
				Average	0.981	1.764		Pass	Pass	Pass
5.481	155.2	5.403	153.0	5.396	0.986	1.824	Pass			
5.499	155.7	5.403	153.0	5.396	0.983	1.824	Pass			
5.509	156.0	5.403	153.0	5.396	0.981	1.828	Pass			
				Average	0.983	1.825		Pass	Pass	Pass
5.193	147.1	5.175	146.6	5.164	0.997	1.852	Pass			
5.193	147.1	5.173	146.5	5.166	0.996	1.852	Pass			
5.163	146.2	5.173	146.5	5.166	1.002	1.850	Pass			
				Average	0.998	1.851		Pass	Pass	Pass
5.147	145.8	5.140	145.6	5.119	0.999	1.818	Pass			
5.125	145.1	5.138	145.5	5.122	1.003	1.818	Pass			
5.098	144.4	5.138	145.5	5.122	1.008	1.816	Pass			
				Average	1.003	1.817		Pass	Pass	Pass

Average Yd: 0.991 dH@: 1.814

Q @ dH = 1: 0.557

Performed by signature: L. Olivares Date: 04/24/2024

Reviewed by signature: Surya Adhikari Date: 04/24/2024

MONTROSE
AIR QUALITY SERVICES

DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 5-WCS
Readout Description: Control Box
Date: 1/2/2024
Performed By: JS

Calibrated Thermocouple ID: TC-295
T1 Reference Thermometer ID: 313010
T2 Reference Thermometer ID: 2736
T3 Reference Thermometer ID: 2786

T/C I.D.	Readout	T/C - Readout °F				Reference Thermometer °F				Difference		
TC-295	I.D.	Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T3 (~ 370 F)	5-WCS	371	371	371	371	370	370	370	370	1.0	0.1%	Pass
T2 (~212 F)	5-WCS	214	215	215	215	212	212	212	212	2.7	0.4%	Pass
T1 (~ 32 F)	5-WCS	34	34	34	34	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)

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)	125097	653	652	652	652	650	650	650	650	2.3	0.2%	Pass
T3 (~370 F)	125097	373	372	372	372	370	370	370	370	2.3	0.3%	Pass
T2 (~212 F)	125097	215	215	215	215	212	212	212	212	3.0	0.4%	Pass
T1 (~32 F)	125097	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)

APPENDIX B
FACILITY CEMS DATA

NH3 Run 1

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:00 Through 06/11/2024 15:39
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	O2	STKFLOW	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PERCENT)	(KSCFM)	(MIN)
06/11/24	15:00	26,460.9	261.1	0.16	0.009	0.093	6.56	4.07	501.8	1.0
06/11/24	15:01	26,915.6	261.7	0.17	0.008	0.094	6.58	3.84	501.4	1.0
06/11/24	15:02	26,605.4	261.6	0.11	0.007	0.082	5.74	4.03	501.5	1.0
06/11/24	15:03	26,731.2	261.3	0.00	0.007	0.080	5.61	3.93	500.9	1.0
06/11/24	15:04	26,838.4	260.9	0.11	0.008	0.085	5.93	3.86	502.9	1.0
06/11/24	15:05	26,630.1	259.7	0.11	0.008	0.084	5.95	3.81	496.1	1.0
06/11/24	15:06	26,305.8	259.6	0.00	0.007	0.081	5.75	3.82	490.1	1.0
06/11/24	15:07	26,248.1	259.3	0.00	0.008	0.085	6.04	3.87	491.9	1.0
06/11/24	15:08	26,033.2	258.7	0.14	0.008	0.091	6.45	4.06	493.7	1.0
06/11/24	15:09	26,563.0	259.0	0.17	0.009	0.096	6.73	3.90	497.8	1.0
06/11/24	15:10	26,358.5	259.0	0.00	0.007	0.080	5.72	3.81	491.0	1.0
06/11/24	15:11	26,408.2	259.2	0.00	0.007	0.076	5.42	3.80	492.0	1.0
06/11/24	15:12	26,542.0	259.4	0.00	0.007	0.084	5.92	3.85	494.5	1.0
06/11/24	15:13	26,357.4	259.3	0.13	0.008	0.091	6.46	3.91	493.9	1.0
06/11/24	15:14	26,168.0	259.5	0.14	0.008	0.090	6.39	4.04	493.3	1.0
06/11/24	15:15	26,485.2	259.4	0.13	0.008	0.087	6.14	3.93	496.3	1.0
06/11/24	15:16	26,410.6	259.5	0.11	0.007	0.082	5.79	3.95	497.8	1.0
06/11/24	15:17	26,622.5	259.8	0.12	0.008	0.087	6.09	3.97	501.8	1.0
06/11/24	15:18	26,439.5	260.0	0.12	0.008	0.086	6.07	3.93	495.4	1.0
06/11/24	15:19	26,329.5	260.2	0.10	0.007	0.082	5.80	4.05	496.3	1.0
06/11/24	15:20	26,541.2	260.4	0.12	0.008	0.086	6.08	3.94	497.4	1.0
06/11/24	15:21	26,384.9	260.2	0.13	0.008	0.086	6.11	3.92	494.4	1.0
06/11/24	15:22	26,621.8	260.3	0.13	0.008	0.087	6.12	3.96	501.8	1.0
06/11/24	15:23	26,518.8	260.5	0.12	0.008	0.084	5.95	3.87	496.9	1.0
06/11/24	15:24	26,544.9	260.4	0.11	0.008	0.084	5.93	3.99	500.4	1.0
06/11/24	15:25	26,411.1	260.4	0.12	0.008	0.084	5.97	3.95	494.9	1.0
06/11/24	15:26	26,676.7	260.7	0.12	0.008	0.085	6.00	3.93	499.9	1.0
06/11/24	15:27	26,387.3	260.5	0.13	0.008	0.086	6.07	3.97	497.4	1.0
06/11/24	15:28	26,648.9	260.6	0.13	0.008	0.089	6.19	4.06	505.3	1.0
06/11/24	15:29	26,440.2	260.5	0.15	0.008	0.089	6.24	4.05	498.4	1.0
06/11/24	15:30	26,754.6	260.3	0.12	0.008	0.084	5.89	3.97	504.3	1.0
06/11/24	15:31	26,655.7	260.3	0.11	0.007	0.082	5.75	4.00	502.5	1.0
06/11/24	15:32	26,387.3	260.4	0.12	0.008	0.084	5.91	4.08	500.4	1.0
06/11/24	15:33	26,569.5	260.4	0.12	0.008	0.085	5.98	4.01	500.8	1.0
06/11/24	15:34	26,545.1	260.2	0.13	0.008	0.086	6.04	3.95	497.4	1.0

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

W002AS-041566-RT-6249

NH3
R1

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:00 Through 06/11/2024 15:39
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter	Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)
06/11/24 15:35		26,571.8	260.5	0.13	0.008	0.087	6.06	4.03	500.9	1.0
06/11/24 15:36		26,439.3	260.9	0.12	0.008	0.086	6.02	4.07	501.3	1.0
06/11/24 15:37		26,490.3	260.7	0.12	0.008	0.084	5.92	3.94	496.4	1.0
06/11/24 15:38		26,544.0	260.5	0.11	0.007	0.082	5.81	3.87	497.4	1.0
06/11/24 15:39		26,491.9	260.4	0.12	0.008	0.085	5.96	3.97	499.4	1.0
Average		26,502.0	260.2	0.11	0.008	0.086	6.03	3.95	497.9	1.0
Minimum		26,033.2	258.7	0.00	0.007	0.076	5.42	3.80	490.1	1.0
Maximum		26,915.6	261.7	0.17	0.009	0.096	6.73	4.08	505.3	1.0
Summation		1,060,078.4	10,407.3	4.28	0.312	3.421	241.14	157.96	19,918.0	40.0
Included Data Points		40	40	40	40	40	40	40	40	40
Total number of Data Points		40	40	40	40	40	40	40	40	40

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

NH3 Run 2

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:48 Through 06/11/2024 16:27
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	O2	STKFLOW	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PERCENT)	(KSCFM)	(MIN)
06/11/24	15:48	26,489.6	261.1	0.13	0.008	0.088	6.18	3.99	499.3	1.0
06/11/24	15:49	26,677.5	261.2	0.15	0.008	0.090	6.33	3.98	502.9	1.0
06/11/24	15:50	26,573.9	261.5	0.14	0.008	0.086	6.07	3.96	500.9	1.0
06/11/24	15:51	26,756.9	261.5	0.00	0.007	0.080	5.65	3.88	501.4	1.0
06/11/24	15:52	26,575.2	261.7	0.10	0.007	0.081	5.75	3.94	498.0	1.0
06/11/24	15:53	26,652.5	261.5	0.12	0.008	0.086	6.07	3.91	499.4	1.0
06/11/24	15:54	26,547.6	261.2	0.13	0.008	0.086	6.15	3.82	494.6	1.0
06/11/24	15:55	26,385.2	261.2	0.11	0.008	0.085	6.00	3.95	497.4	1.0
06/11/24	15:56	26,542.3	261.3	0.13	0.008	0.088	6.21	3.92	497.4	1.0
06/11/24	15:57	26,385.0	261.2	0.14	0.008	0.088	6.25	3.93	494.4	1.0
06/11/24	15:58	26,488.9	261.1	0.11	0.008	0.083	5.88	3.91	496.4	1.0
06/11/24	15:59	26,597.9	261.5	0.11	0.008	0.084	5.92	3.90	498.4	1.0
06/11/24	16:00	26,625.7	261.2	0.13	0.008	0.086	6.08	3.84	496.0	1.0
06/11/24	16:01	26,680.4	260.9	0.14	0.008	0.088	6.23	3.90	500.0	1.0
06/11/24	16:02	26,654.6	261.0	0.12	0.008	0.086	6.02	3.93	499.5	1.0
06/11/24	16:03	26,493.2	261.0	0.12	0.008	0.084	5.96	3.98	499.4	1.0
06/11/24	16:04	26,651.5	261.0	0.11	0.008	0.083	5.88	3.88	499.4	1.0
06/11/24	16:05	26,440.3	261.0	0.11	0.008	0.083	5.92	3.91	495.5	1.0
06/11/24	16:06	26,650.7	261.1	0.12	0.008	0.087	6.15	3.85	499.4	1.0
06/11/24	16:07	26,466.7	261.0	0.12	0.008	0.086	6.14	3.91	496.0	1.0
06/11/24	16:08	26,623.2	261.1	0.13	0.008	0.086	6.07	3.89	498.9	1.0
06/11/24	16:09	26,519.3	261.2	0.13	0.008	0.086	6.06	3.95	496.9	1.0
06/11/24	16:10	26,571.1	261.1	0.13	0.008	0.087	6.10	4.00	500.9	1.0
06/11/24	16:11	26,572.2	261.4	0.12	0.008	0.084	5.98	3.90	497.9	1.0
06/11/24	16:12	26,438.7	261.3	0.12	0.008	0.085	6.00	3.97	498.4	1.0
06/11/24	16:13	26,596.5	261.5	0.13	0.008	0.087	6.14	3.95	501.3	1.0
06/11/24	16:14	26,519.8	261.6	0.13	0.008	0.086	6.09	3.89	497.0	1.0
06/11/24	16:15	26,651.2	261.6	0.11	0.007	0.082	5.83	3.90	499.4	1.0
06/11/24	16:16	26,709.6	261.8	0.12	0.008	0.084	5.93	3.94	500.5	1.0
06/11/24	16:17	26,601.2	261.7	0.14	0.008	0.089	6.23	4.01	501.4	1.0
06/11/24	16:18	26,709.4	261.4	0.15	0.008	0.089	6.22	3.94	500.5	1.0
06/11/24	16:19	26,786.5	261.3	0.11	0.007	0.081	5.74	3.85	502.0	1.0
06/11/24	16:20	26,787.1	261.1	0.00	0.007	0.079	5.59	3.84	499.0	1.0
06/11/24	16:21	26,656.2	261.2	0.00	0.007	0.082	5.79	3.85	499.5	1.0
06/11/24	16:22	26,573.6	261.3	0.12	0.008	0.088	6.21	3.92	498.0	1.0

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

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NH3 R2

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:48 Through 06/11/2024 16:27
Time Online Criteria: 1 minute(s)

Source	ORB1								
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)
06/11/24 16:23	26,438.9	261.1	0.14	0.008	0.088	6.28	3.88	495.4	1.0
06/11/24 16:24	26,676.7	260.9	0.12	0.008	0.085	5.99	3.85	499.9	1.0
06/11/24 16:25	26,574.5	261.2	0.10	0.007	0.082	5.85	3.83	495.1	1.0
06/11/24 16:26	26,572.6	261.2	0.12	0.008	0.087	6.11	3.97	500.9	1.0
06/11/24 16:27	26,652.6	261.0	0.15	0.008	0.090	6.35	3.91	499.4	1.0
Average	26,589.2	261.3	0.12	0.008	0.085	6.04	3.91	498.7	1.0
Minimum	26,385.0	260.9	0.00	0.007	0.079	5.59	3.82	494.4	1.0
Maximum	26,787.1	261.8	0.15	0.008	0.090	6.35	4.01	502.9	1.0
Summation	1,063,566.5	10,450.2	4.61	0.313	3.415	241.40	156.53	19,948.0	40.0
Included Data Points	40	40	40	40	40	40	40	40	40
Total number of Data Points	40	40	40	40	40	40	40	40	40

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

3-043

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 16:35 Through 06/11/2024 17:14
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	O2	STKFLOW	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PERCENT)	(KSCFM)	(MIN)
06/11/24	16:35	26,678.2	261.6	0.13	0.008	0.086	6.08	3.90	499.9	1.0
06/11/24	16:36	26,710.4	261.6	0.13	0.008	0.084	5.93	3.91	500.5	1.0
06/11/24	16:37	26,866.8	261.8	0.12	0.008	0.084	5.86	3.90	503.5	1.0
06/11/24	16:38	26,659.0	261.8	0.13	0.008	0.086	6.03	4.00	502.5	1.0
06/11/24	16:39	26,785.3	261.7	0.14	0.008	0.087	6.13	3.93	501.9	1.0
06/11/24	16:40	26,576.5	261.6	0.12	0.008	0.083	5.93	3.86	498.0	1.0
06/11/24	16:41	26,890.5	261.7	0.11	0.007	0.082	5.77	3.81	501.0	1.0
06/11/24	16:42	26,524.3	261.7	0.11	0.008	0.083	5.90	3.94	497.1	1.0
06/11/24	16:43	26,756.7	262.0	0.13	0.008	0.088	6.22	3.86	501.4	1.0
06/11/24	16:44	26,496.7	261.8	0.11	0.008	0.085	6.05	3.85	493.6	1.0
06/11/24	16:45	26,517.8	262.2	0.00	0.007	0.082	5.83	3.82	494.0	1.0
06/11/24	16:46	26,652.6	262.2	0.12	0.008	0.086	6.07	3.92	499.4	1.0
06/11/24	16:47	26,547.9	262.2	0.17	0.008	0.093	6.56	3.97	500.4	1.0
06/11/24	16:48	26,917.3	262.4	0.15	0.008	0.089	6.22	3.87	504.4	1.0
06/11/24	16:49	26,977.0	262.1	0.12	0.007	0.082	5.74	3.88	505.5	1.0
06/11/24	16:50	26,898.2	261.2	0.10	0.007	0.080	5.65	3.81	501.1	1.0
06/11/24	16:51	26,552.0	261.0	0.00	0.007	0.081	5.71	3.92	497.6	1.0
06/11/24	16:52	26,864.7	262.0	0.12	0.008	0.087	6.16	3.78	500.5	1.0
06/11/24	16:53	26,444.6	261.9	0.12	0.008	0.087	6.19	3.95	498.5	1.0
06/11/24	16:54	26,650.2	262.2	0.12	0.008	0.086	6.09	3.85	496.5	1.0
06/11/24	16:55	26,387.2	261.9	0.12	0.008	0.085	6.06	3.92	494.5	1.0
06/11/24	16:56	26,887.9	261.9	0.13	0.008	0.087	6.11	3.86	503.9	1.0
06/11/24	16:57	26,763.3	261.4	0.16	0.008	0.090	6.35	3.94	501.5	1.0
06/11/24	16:58	26,974.1	261.8	0.13	0.007	0.084	5.92	3.81	502.5	1.0
06/11/24	16:59	26,764.6	261.8	0.00	0.007	0.080	5.62	3.94	501.6	1.0
06/11/24	17:00	26,656.1	261.9	0.12	0.008	0.085	6.01	3.93	499.5	1.0
06/11/24	17:01	26,654.2	261.9	0.13	0.008	0.089	6.23	3.99	502.4	1.0
06/11/24	17:02	26,520.7	262.0	0.14	0.008	0.087	6.15	3.96	499.9	1.0
06/11/24	17:03	26,678.6	261.9	0.13	0.008	0.086	6.05	4.00	502.9	1.0
06/11/24	17:04	26,759.6	262.0	0.13	0.008	0.086	6.06	3.92	501.5	1.0
06/11/24	17:05	26,576.2	261.8	0.14	0.008	0.085	6.00	4.04	501.0	1.0
06/11/24	17:06	26,944.2	262.1	0.15	0.008	0.088	6.11	3.99	507.9	1.0
06/11/24	17:07	26,871.3	262.1	0.15	0.008	0.087	6.06	4.04	506.5	1.0
06/11/24	17:08	26,789.2	262.1	0.12	0.007	0.082	5.77	3.96	505.0	1.0
06/11/24	17:09	26,815.0	262.0	0.11	0.007	0.081	5.73	3.90	502.5	1.0

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

3-2043

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Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 16:35 Through 06/11/2024 17:14
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter Unit		GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)
06/11/24	17:10	26,762.1	262.0	0.12	0.008	0.084	5.89	3.96	504.5	1.0
06/11/24	17:11	26,760.7	262.1	0.15	0.008	0.089	6.24	3.96	504.4	1.0
06/11/24	17:12	26,761.5	261.6	0.13	0.008	0.086	6.02	3.90	501.5	1.0
06/11/24	17:13	26,840.6	261.7	0.12	0.007	0.082	5.78	3.88	503.0	1.0
06/11/24	17:14	26,976.6	261.8	0.11	0.007	0.083	5.80	3.80	502.6	1.0
Average		26,727.8	261.9	0.12	0.008	0.085	6.00	3.91	501.2	1.0
Minimum		26,387.2	261.0	0.00	0.007	0.080	5.62	3.78	493.6	1.0
Maximum		26,977.0	262.4	0.17	0.008	0.093	6.56	4.04	507.9	1.0
Summation		1,069,110.4	10,474.5	4.74	0.309	3.407	240.08	156.43	20,046.4	40.0
Included Data Points		40	40	40	40	40	40	40	40	40
Total number of Data Points		40	40	40	40	40	40	40	40	40

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

APPENDIX C
CALCULATIONS

Appendix C.1
General Emissions Calculations

GENERAL EMISSION 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

$$Ps = Pbar + \frac{Psg}{13.6}$$

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

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

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{lc} * \frac{T_{ref}}{528\ ^oR}$$

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

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

V. Emission Rates, lb/MMBtu

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

VI. Percent Isokinetic

$$I = \frac{17.32 \times T_s\ (V_m std)}{(1\text{-}Bwo)\ 0 \times Vs \times Ps \times Dn2} \times \frac{520°R}{T_{ref}}$$

VII. Particulate emissions

(a) Grain loading, gr/dscf
$C = 0.01543\ (M_n/V_{m\ std})$

(b) Grain loading at 12% CO_2, gr/dscf
$C_{12\%}\ CO_2 = C\ (12/\%\ CO_2)$

(c) Mass emissions, lb/hr
$M = C \times Qsd \times (60\ min/hr)/(7000\ gr/lb)$

(d) Particulate emission factor

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

Nomenclature:

A_s	= stack area, ft^2
B_{wo}	= 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
Dn	= nozzle diameter, in.
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, min.
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, iwb
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

Client	GenOn Energy		Parameter	NH3
Location	Ormond Beach		Fuel	GAS
Unit	Unit 1		Data By	JP/PR/TM/AE
Test Number	1-NH3-1	2-NH3-2	3-NH3-3	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	6/11/2024	6/11/2024	6/11/2024	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	5 WCS	5 WCS	5 WCS	
Meter Calibration Factor	0.991	0.991	0.991	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Min)	36	36	36	
Barometric Pressure (in Hg)	29.81	29.81	29.81	
Start Time	15:00	15:48	16:35	
Stop Time	15:39	16:27	17:14	
Meter Volume (acf)	24.030	24.050	24.165	
Meter Temperature (F)	77.5	80.0	78.1	
Meter Pressure (iwg)	1.50	1.50	1.50	
Liquid Volume (ml)	70.3	87.3	95.6	
F-Factor (dscf/MMBtu)	8,710	8,710	8,710	
HHV(Btu/SCF)	1,050	1,050	1,050	
Stack O_2 (%) (From Facility)	3.95	3.91	3.91	3.92
Stack NOx (ppm)	6.03	6.04	6.00	6.02
Stack NOx (ppmc)	6.37	6.36	6.32	6.35
Unit Load MW	260.2	261.3	261.9	261.1
Standard Sample Volume (SCF)	23.391	23.301	23.497	
Moisture Fraction	0.124	0.150	0.161	
Stack Flow Rate (dscfm)	497,900	498,700	501,200	499,267
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	3	3	3	
Mass NH_3 (Ug)	611.45	615.61	541.45	
Mass NH_3 (mg)	0.611	0.616	0.541	
Mass NH_3 (lb)	1.35E-06	1.36E-06	1.19E-06	
PPM NH_3 (flue gas)	1.31	1.32	1.15	1.26
PPM NH_3 @ O_2 Correction	1.38	1.39	1.21	1.33
lb/hr NH3	1.72	1.74	1.53	1.66
lb/MMBtu	0.0006	0.0006	0.0005	0.0006
lb/MMSCF	0.65	0.66	0.57	0.63

NH3 EQUATIONS:

ppm NH3 = (mass NH3* Gas Const * Ref Temp * 10^6)/(Sample vol. * Press * MW)
ppm NH3 @ O2 correction = ppm * (20.9-O2 Corr)/(20.9-%O2)
lb/hr NH3 = (ppm * stack flow * MW * 60)/Specific Molar Volume/10^6

BAAQMD ST-1B EXAMPLE CALCULATION
TEST NUMBER: 1-NH3-1

Identifier	Description	Units	Equation	Value
A	Reference Temperature	F	--	68
B	Reference Temperature	R	A + 460	528
C	Meter Calibration Factor (Yd)	--	--	0.991
D	Barometric Pressure	" Hg	--	29.81
E	Meter Volume	acf	--	24.030
F	Meter Temperature	F	--	77.5
G	Meter Temperature	R	F + 460	537.5
H	Delta H	" H_2O	--	1.5
I	Meter Volume (standard)	dscf	0.03342 * E * (D + H/13.6) * B/G * C	23.391
J	Liquid Collected	grams	--	70.3
K	Water vapor volume	scf	0.0472 * J * B/528	3.318
L	Moisture Content	--	K/(K + I)	0.124
M	Gas Constant	ft-lbf/lb-mole-R	--	1545.33
N	Specific Molar Volume	SCF/lb-mole	385.3 * B / 528	385.3
O	F-Factor	dscf/MMBtu	--	8,710
P	HHV	Btu/SCF	--	1,050
Q	Mass Conversion Factor	lb/ug	--	2.20E-09
R	O_2 Correction Factor	--	--	3
S	Stack Flow Rate @ 68 F	dscfm	--	497,900
T	Stack Flow Rate @ Tref	dscfm	S * B/528	497,900
U	Mass NH_3	ug	--	611
V	Mass NH_3	lb	U * Q	1.35E-06
W	MW of NH_3	lb/lb-mole	--	17.03
X	NH_3	ppm	$(V * N * 10^b)/(I * W)$	1.3
Y	Flue Gas O_2	%	--	3.95
Z	NH_3	ppmc	X * (20.9 - R)/(20.9 - Y)	1.4
AA	NH_3	lb/hr	$X * T * W * 60/(N * 10^b)$	1.7
AB	NH_3	lb/MMBtu	$(X * W * O)/(385.3 * 10^b) * 20.9/(20.9 - Y)$	0.001
AC	NH_3	lb/MMSCF	AB * P	0.6

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

TABLE 2
MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and After Each Test Day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and After Each Test Run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After Each Test Run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of Each Day	leak check	< 1 in. Hg decrease in 5 min. at > 20 in. Hg
Continuous Analyzers	Semi-Annually	3-point linearity	< 1% of analyzer range
NO_x Analyzer	Daily	NO_2 -> NO converter efficiency	> 90%
Differential Pressure Gauges (except for manometers)	Semi-Annually	Correction factor based on 5-point comparison to standard	± 5%
Differential Pressure Gauges (except for manometers)	Bi-Monthly	3-point comparison to standard, no correction factor	± 5%
Barometer	Semi-Annually	Adjusted to mercury-in-glass or National Weather Service Station	± 0.1 inches Hg
Dry Gas Meter	Semi-Annually	Calibration check at 4 flow rates using a NIST traceable standard	± 2%
Dry Gas Meter	Bi-Monthly	Calibration check at 2 flow rates using a NIST traceable standard	± 2% of semi-annual factor
Dry Gas Meter Orifice	Annually	4-point calibration for 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
STAC Certification

American Association for Laboratory Accreditation

STAC
STACK TESTING ACCREDITATION COUNCIL

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 IIAC Mutual Recognition Arrangement.

MONTROSE AIR QUALITY SERVICES

Appendix D.3
Individual QI Certificates

CERTIFICATE OF COMPLETION

John Peterson

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):

BAAQMD ST-1B

Certificate Number: 002-2022-22

DATE OF ISSUE: 01/20/2022

Tate Strickler, VP – Quality Systems

DATE OF EXPIRATION: 01/19/2027

MONTROSE ENVIRONMENTAL

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. John Peterson
Title:	District Manager
Region:	West
Email:	JPeterson@montrose-env.com
Phone:	(714) 279-6777

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

COLD START-UP LOG

ORMOND BEACH POWER, LLC

ORMOND BEACH GENERATING STATION

COLD START-UP TRACKING

January 2024 through December 2024

QTR.	MONTH	UNIT #1	UNIT #2	NAB	SAB
1ST	January	0	1	1	1
	February	1	0	6	3
	March	0	0	0	0
2ND	April	0	0	0	0
	May	2	4	9	10
	June	1	1	1	2
3RD	July	1	1	2	5
	August	1	2	7	5
	September	2	2	5	6
4TH	October	0	1	1	1
	November	1	0	2	1
	December	0	0	0	0
YTD REPORTING TOTAL:		9	12	34	34

Note: The start-up #s above must be verified with the VCAPCD Air Quality Specialist

Cold Start = First 20 hrs runtime (Units 1&2) or >550˚; 4 hrs runtime (N-Aux & S-Aux) no temp.

HIGH ACCURACY METER TEST

ORMOND BEACH GENERATING STATION
HIGH ACCURACY ELECTRONIC WATT-HOUR METER TEST

Single Phase [ ]
Poly Phase [X]

(Loss) WORK ORDER #:

LOCATION: OBGS
CIRCUIT: Unit 1 Generator MW SERIAL #: 3142021186
MANUFACTURER: SEL MODEL: 735 VOLTS: 115VAC NOMINAL ANALOG: 4-20 mA
WATTS: 3A PHASE: 3 ELEMENT: 2 WIRE: 3 PULSE/HOUR: 120000000 Kt: 1.8 MULTIPLIER:
P.T RATIO: 240/1 C.T. RATIO: 2500/5 STD. SER. NO.: STD. Ke: STD. mA: STD. WATTS:
STD. ELE.:

START OF TEST
TIME:
WATT DISPLAY 0.0
WATT-HOUR COUNT: 1236918.07

END OF TEST
TIME:
WATT DISPLAY 0.0
WATT-HOUR COUNT: 1236993.09

TEST DATA

NOMINAL SETTINGS						STD & IT % E	DIGITAL OUTPUT					ANALOG OUTPUT				WATTS DISPLAY			
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count		Standard Count Run #1	Run #2	Ave.	IND %E	TRUE %E	UT mA	STD std. .mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
AS FOUND / AS LEFT																			
115	5.0	1.0					1.0	Multiple				19.95	20.00			1195.0	1195.0		
115	4.167	1.0					1.0	"				17.30	17.30			996.0	996.0		
115	2.5	1.0					1.0	"				11.99	11.99			598.0	598.0		
115	2.083	1.0					1.0	"				10.66	10.66			498.0	498.0		
115	1.042	1.0					1.0	"				7.34	7.34			249.0	249.0		
115	0.50	1.0					1.0	"				5.61	5.61			119.4	119.3		
115	0.00	1.0					1.0	"				4.02	4.00			0.00	0.00		

COMMENTS: EQUIP. - ARTES 440

Test Tech: Jim Samuel
Contact Information: 805) 986-7294
Signed: James Samuel
Cell: (805) 377-5410
jsamuel@gabol.com
Date: 12/28/2024

ORMOND BEACH GENERATING STATION
HIGH ACCURACY ELECTRONIC WATT-HOUR METER TEST

Single Phase [X]
Poly Phase [ ]

WORK ORDER #:

LOCATION: OBGS
MANUFACTURER: SEL
CIRCUIT: UNIT 1 AUX. TRANSF. MW
SERIAL #: 3142021B7
MODEL: 735
VOLTS: 115VAC
NOMINAL ANALOG: 4-20 mA
WATTS: 3A
PHASE: 3
ELEMENT: 2
WIRE: 3
PULSE/HOUR: 5730
Ke: 1.8
MULTIPLIER:
P.T RATIO: 240/1
C.T. RATIO: 1200/5
STD. SER. NO.:
STD. Ke:
STD. mA:
STD. WATTS:
STD. ELE.:

START OF TEST
TIME:
WATT DISPLAY 0.03
WATT-HOUR COUNT: 67033.07

END OF TEST
TIME:
WATT DISPLAY 0.03
WATT-HOUR COUNT: 67036.56

TEST DATA

NOMINAL SETTINGS						STD & IT % E	DIGITAL OUTPUT					ANALOG OUTPUT				WATTS DISPLAY			
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count		Standard Count Run #1	Run #2	Ave.	IND %E	TRUE %E	UT mA	STD std. .mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
AS FOUND / AS LEFT																			
115	5.00	1.0					1.0	Minutes				20.00	20.00			57.27	57.26		
115	4.167	1.0					"	"				17.36	17.36			47.82	47.80		
115	2.50	1.0					"	"				12.03	12.03			28.70	28.69		
115	2.083	1.0					"	"				10.69	10.69			23.91	23.91		
115	1.042	1.0					"	"				7.36	7.36			11.96	11.96		
115	0.50	1.0					"	"				5.62	5.62			5.75	5.75		
115	0.00	1.0					"	"				4.02	4.00			0.03	0.00		

COMMENTS: Equip. - ARTES 440

Test Tech: Jim Samuel
Contact Information: 805) 986-7294
Signed: James Samuel
Cell: (805) 377-5410
jsamuel@GenOn.com
Date: 12/28/2024

ORMOND BEACH GENERATING STATION
HIGH ACCURACY ELECTRONIC WATT-HOUR METER TEST

Single Phase [X]
Poly Phase [ ]

(GROSS)

WORK ORDER #:

LOCATION: OBGS
CIRCUIT: Unit 2 Generator MW
SERIAL #: 31420288
MANUFACTURER: SEL
MODEL: 735
VOLTS: 115/4C
NOMINAL ANALOG: 4-20 mA
WATTS: 3A
PHASE: 3
ELEMENT: 2
WIRE: 3
PULSE/HOUR: 120000000 Ke: 1.8
MULTIPLIER:
P.T RATIO: 240/1
C.T. RATIO: 25000/5
STD. SER. NO.:
STD. Ke:
STD. mA:
STD. WATTS:
STD. ELE.:

START OF TEST
TIME:
WATT DISPLAY 0.0
WATT-HOUR COUNT: 1792335.72

END OF TEST
TIME:
WATT DISPLAY 0.0
WATT-HOUR COUNT: 1792348.17

TEST DATA

NOMINAL SETTINGS						STD & IT %E	DIGITAL OUTPUT					ANALOG OUTPUT				WATTS DISPLAY			
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count		Standard Count Run #1	Standard Count Run #2	Standard Count Ave.	IND %E	TRUE %E	UT mA	STD std. .mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
AS FOUND / AS LEFT																			
115	5.00	1.0					1.0	Minute				19.95	20.00			1196.3	1195.00		
115	4.167	1.0					"	"				17.30	17.30			996.9	996.00		
115	2.50	1.0					"	"				11.99	11.99			598.0	598.00		
115	2.083	1.0					"	"				10.66	10.66			498.1	498.00		
115	1.042	1.0					"	"				7.34	7.34			249.0	249.00		
115	0.50	1.0					"	"				5.61	5.61			119.47	119.00		
115	0.00	1.0					"	"				4.02	4.00			0.0	0.00		

COMMENTS: Equip - Artes 440

Test Tech: Jim Samuel
Contact Information: 805) 986-7294

Signed: James Samuel
Cell: (805) 377-5410

jsamuel@gabod.com

Date: 12/28/2024

ORMOND BEACH GENERATING STATION
HIGH ACCURACY ELECTRONIC WATT-HOUR METER TEST

Single Phase [X]
Poly Phase [ ]

WORK ORDER #:

LOCATION: OBGS
CIRCUIT: Unit 2 Aux. Transf. MW
SERIAL #: 314202185
MANUFACTURER: SEL
MODEL: 735
VOLTS: 115VAC
NOMINAL ANALOG: 4-20 mA
WATTS: 34
PHASE: 3
ELEMENT: 2
WIRE: 3
PULSE/HOUR: 57900
Ke: 1.8
MULTIPLIER:
P.T RATIO: 240/1
C.T. RATIO: 1200/5
STD. SER. NO.:
STD. Ke:
STD. mA:
STD. WATTS:
STD. ELE.:

START OF TEST
TIME:
WATT DISPLAY: 0.03
WATT-HOUR COUNT: 86939.65

END OF TEST
TIME:
WATT DISPLAY: 0.03
WATT-HOUR COUNT: 86944.38

TEST DATA

NOMINAL SETTINGS						STD & IT % E	DIGITAL OUTPUT					ANALOG OUTPUT				WATTS DISPLAY			
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count		Standard Count Run #1	Standard Count Run #2	Standard Count Ave.	IND %E	TRUE %E	UT mA	STD std. .mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
AS FOUND / AS LEFT																			
115	5.00	1.0					1.0	Minutes				20.00	20.00			57.4	57.36		
115	4.167	1.0					"	"				17.36	17.36			47.84	47.80		
115	2.50	1.0					"	"				12.03	12.03			28.70	28.69		
115	2.083	1.0					"	"				10.69	10.69			23.91	23.91		
115	1.042	1.0					"	"				7.36	7.36			11.95	11.96		
115	0.50	1.0					"	"				5.62	5.62			5.74	5.75		
115	0.00	1.0					"	"				4.02	4.00			0.03	0.00		

COMMENTS: EQUIP. - ARTES 440

Test Tech: Jim Samuel
Contact Information: 805) 986-7294
Signed: James Samuel
Cell: (805)377-5410
jsamuel@genon.com
Date: 12/28/2024

ORMOND BEACH GENERATING STATION
HIGH ACCURACY ELECTRONIC WATT-HOUR METER TEST

Single Phase [X]
Poly Phase [ ]

WORK ORDER #:

LOCATION: OBGS
MANUFACTURER: SEL
WATTS: 34 PHASE: 3 ELEMENT: 2
P.T RATIO: 120/1 C.T. RATIO: 600/5
STD. ELE.:

CIRCUIT: Reserve Aux. Trans. MW
MODEL: 735 VOLTS: 115VAC
WIRE: 3 PULSE/HOUR: 72000 Ke: 1.8
STD. SER. NO.: STD. Ke: STD. mA:

SERIAL #: 3142021189
NOMINAL ANALOG: 4-20 mA
MULTIPLIER:
STD. WATTS:

START OF TEST
TIME:
WATT DISPLAY 0.03
WATT-HOUR COUNT: 142712.08

END OF TEST
TIME:
WATT DISPLAY 0.03
WATT-HOUR COUNT: 142716.75

TEST DATA

NOMINAL SETTINGS						STD & IT % E	DIGITAL OUTPUT					ANALOG OUTPUT				WATTS DISPLAY			
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count		Standard Count Run #1	Standard Count Run #2	Ave.	IND %E	TRUE %E	UT mA	STD std. .mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
AS FOUND / AS LEFT																			
115	5.00	1.0					1.0	Minutes				19.94	20.00			71.76	72.00		
115	4.167	1.0					〃	〃				17.29	17.30			59.79	59.75		
115	2.50	1.0					〃	〃				11.98	11.98			35.87	35.84		
115	2.083	1.0					〃	〃				10.65	10.65			29.88	29.87		
115	1.042	1.0					〃	〃				7.34	7.34			14.95	14.95		
115	0.50	1.0					〃	〃				5.61	5.61			7.17	7.18		
115	0.00	1.0					〃	〃				4.02	4.00			0.03	0.00		

COMMENTS:
EQUIP. - ARTES 440

Test Tech: Jim Samuel
Contact Information: 805) 986-7294

Signed: [signature]
Cell: (805) 377-5410

jsamuel@ genon. com.

Date: 12/28/2024

EMERGENCY GENERATOR
RUN-TIME REPORT

ORMOND BEACH MONTHLY
ENGINE RUN-TIME RECORDS

FIRST OF	EMER. GENERATOR		RUNNING	Operational
MONTH	METER	TESTING	12-MONTH	Reason
Jan 2024	158.6	2.1	7.5	Bi-Annual Service
Feb 2024	160.7	0.1	7.6	Maintenance
Mar 2024	160.8	0.1	7.7	Maintenance
Apr 2024	160.9	0.0	7.4	Maintenance
May 2024	160.9	0.8	7.7	Maintenance
Jun 2024	161.7	0.0	6.4	Annual Service
Jul 2024	161.7	0.1	6.5	Maintenance
Aug 2024	161.8	0.6	6.8	Maintenance
Sep 2024	162.4	0.2	6.5	Maintenance
Oct 2024	162.6	0.1	4.2	Maintenance
Nov 2024	162.7	0.0	4.1	Maintenance
Dec 2024	162.7	0.7	4.8	Maintenance

CARB APPROVED DIESEL FUEL USE

The Ormond Beach Generating Station did not purchase any fuel for the Emergency Diesel Engine Generator in 2024.

RICE NESHAP

ZZZZ REPORT

EMERGENCY DIESEL ENGINE
2024 ANNUAL REPORT FORM

Reporting Period: January 1 through December 31, 2024

Due Date: See Notice to Supply Information (NTSI) Issued During Inspection

Your APCD Permit to Operate requires your facility to submit reports of the annual hours of operation and/or maintenance and testing, and emergency use for each diesel emergency engine. If the annual operating hours, excluding emergency operation, exceed the specified annual permit limit, please include an explanation. Please Note: California Health and Safety Code 42304 requires the holder of an APCD Permit to Operate to furnish the information requested by the APCD within a reasonable time or the APCD may suspend the Permit to Operate.

PERMIT NUMBER: 0065			
Facility Name:	Ormond Beach Power, LLC	Contact:	Roger Kahle
Facility Address:	6635 Edison Drive	Title:	Environmental Specialist
Facility City:	Oxnard	Phone:	(805) 341-6167

ENGINE DETAILS

Engine BHp Rating: 605 BHp

Engine Description (Manufacturer, Model, Serial Number, etc.): 605
Cummings
Model No. NTA855-G5
S/N: 11856001
Mftg. Year: 1997

REPORTING REQUIREMENTS FOR CALENDAR YEAR 2024

	Date of Reading		Meter Reading
First of 2024:	January 1, 2024	First of 2024:	158.6
End of 2024:	January 2, 2025	End of 2024:	163.4
Total annual hours for: Maintenance & Testing:			4.8
Hours of Emergency use:			0
Total Hours of operation:			4.8

Has the engine listed above exceeded the permit limit for maintenance and testing? If yes, please explain here or **attach additional pages**:

No The engine listed herein has not exceeded the permit limit.

Signature of person supplying the information: *"I certify that the above information is correct."*

Signature: Sign Here	Date: 2-13-2025
Print Name: Thomas A. Di Clolli	Title: Plant Manager
Phone #: (805) 986-7241	Email: thomas.diciolli@genon.com

SEND REPORT TO:
Inspector Name: Steve Bova Email: steve@vcapcd.org
Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor, Ventura,CA 93003 **or**
FAX: 805/456-7797

ORMOND BEACH MONTHLY
ENGINE RUN-TIME RECORDS

FIRST OF	EMER. GENERATOR		RUNNING	Operational
MONTH	METER	TESTING	12-MONTH	Reason
Jan 2024	158.6	2.1	7.5	Bi-Annual Service
Feb 2024	160.7	0.1	7.6	Maintenance
Mar 2024	160.8	0.1	7.7	Maintenance
Apr 2024	160.9	0.0	7.4	Maintenance
May 2024	160.9	0.8	7.7	Maintenance
Jun 2024	161.7	0.0	6.4	Annual Service
Jul 2024	161.7	0.1	6.5	Maintenance
Aug 2024	161.8	0.6	6.8	Maintenance
Sep 2024	162.4	0.2	6.5	Maintenance
Oct 2024	162.6	0.1	4.2	Maintenance
Nov 2024	162.7	0.0	4.1	Maintenance
Dec 2024	162.7	0.7	4.8	Maintenance

EMERGENCY GENERATOR
ANNUAL SERVICE

LEDDY POWER SYSTEMS, INC.
SERVICE REPORT

Service Date		Customer ID		Contact Name / Phone No.	
1/16/2024		GenOn Holdings		John / 805-985-7309	
Service Tech ID(s)		**Reference / Invoice No.**		**Equipment Location**	
1020-1011		2846		6635 Edison Dr, Oxnard, CA	
Equipment Make / Model No.		**Serial No.**	**Spec No.**	**Eng. Hours (Start)**	**Eng. Hours (End)**
CUMMINS/400DFCE		H970646232	89568B	158.7	160.7
Engine Make / Model No.		**Serial No.**	**Spec No.**	**Fuel Type**	**Fuel Level**
CUMMINS/NTA855-G5		11856001	41111	DIESEL	FULL
KW Rating	**RPM Rating**	**HZ Rating**	**Voltage Rating**	**Application**	**DEF Level (T4F)**
400	1800	60	480	STANDBY	N/A
Reason for Service	**Bi-Annual (6M) PM Generator Service and Load Bank**				

Multi-Point Inspection

	X	**No Action Required**	**W**	**Warning / Action Required**	**N**	**Not Applicable**	

General		**Cooling System**	
Inspect outside of the equipment and area	X	Inspect coolant level	W
Inspect enclosure and access doors	X	Inspect radiator and expansion tank	X
Inspect seismic anchoring	X	Inspect radiator fan and fan clutch	X
Inspect engine block and cylinder head	X	Inspect hoses	W
Inspect engine mounts	X	Inspect block heater(s)	X
Inspect AC generator and mounting	X	Inspect coolant pump(s)	X
Instrumentation		Inspect raw water pump(s)	N
Inspect controls and instrumentation	X	Inspect belt(s) and pulley(s)	X
Inspect for active alarms and fault codes	X	Inspect heat exchanger(s), cooler(s), zinc anode(s)	N
Inspect operating parameters while running	X	**Lubrication System**	
Inspect remote annunciator(s)	X	Inspect oil level and condition	X
Electrical		Inspect oil PSI	X
Inspect wiring, connections, and conduit	X	Inspect oil lines/hoses for leaks and damages	X
Inspect batteries	X	Inspect oil filter(s)	X
Inspect battery charger(s)	X	**Air Intake / Ventilation / Exhaust System**	
Inspect alternator(s)	X	Inspect air filter(s) and piping	X
Inspect belt(s) and pulley(s)	X	Inspect crankcase ventilation	X
Inspect engine starting system	X	Inspect air to air cooler	N
Inspect spark ignition system (NG/LP Only)	N	Inspect air ventilation louver motor(s) and controls	X
Fuel System		Inspect exhaust manifold and piping	X
Inspect fuel level	X	Inspect turbocharger(s)	X
Inspect fuel tank	X	Inspect muffler(s)	X
Inspect fuel pump(s)	X	Inspect DEF level and tank	N
Inspect fuel PSI(s)	X	Inspect dosage valve, hoses, and pump	N
Inspect fuel lines, hoses, filters, and manifolds	X	Inspect SCR catalysts and EATS	N
Inspect regulator(s) and shutoff(s) (NG/LP Only)	N	Inspect diesel particulate filter	N

Inspection Comments

(W) Found coolant to be 3 gal. low and air relief coolant hose had burst. Customer tagged failed hose on 1/13/2024.

Detailed Service Summary

Leddy Power Systems, Inc.
www.leddypower.com | CA License # 1071611
Phone (805) 552-4221

Performed Bi-Annual (6M) PM Generator Service. Performed multipoint inspection. Found blown air relief coolant hose. Went to California Hose and had new hose made. Installed hose and filled unit with 3 gal. of coolant. Test ran unit. Hooked up load bank and performed 2hr load bank. Unit performed with no issues. Disconnected load bank and reconnected generator to building.

Leddy Power Systems, Inc.
www.leddypower.com | CA License # 1071611
Phone (805) 552-4221

LEDDY POWER SYSTEMS, INC.
SERVICE REPORT

Service Date	Customer ID	Contact Name / Phone No.
06/13/2024	GenOn Holdings	Todd Kinsley / (909) 285-7707
Service Tech ID(s)	**Reference / Invoice No.**	**Equipment Location**
1023	3001	6635 Edison Dr, Oxnard, CA

Equipment Make / Model No.	Serial No.	Spec No.	Eng. Hours (Start)	Eng. Hours (End)
Cummins/ 400DFCE	H970646232	89568B	161.7	161.7
Engine Make / Model No.	**Serial No.**	**Spec No.**	**Fuel Type**	**Fuel Level**
Cummins/ NTA855-65	11856001	41111	Diesel	90%

KW Rating	RPM Rating	HZ Rating	Voltage Rating	Application	DEF Level (T4F)
400	1800	60	120/208	Standby	N/A

Reason for Service	Annual Level 2 PM Generator Service

Multi-Point Inspection

X	No Action Required	W	Warning / Action Required	N	Not Applicable

General		Cooling System	
Inspect outside of the equipment and area	X	Inspect coolant level	X
Inspect enclosure and access doors	X	Inspect radiator and expansion tank	X
Inspect seismic anchoring	X	Inspect radiator fan and fan clutch	X
Inspect engine block and cylinder head	X	Inspect hoses	X
Inspect engine mounts	X	Inspect block heater(s)	X
Inspect AC generator and mounting	X	Inspect coolant pump(s)	X
Instrumentation		Inspect raw water pump(s)	N
Inspect controls and instrumentation	X	Inspect belt(s) and pulley(s)	X
Inspect for active alarms and fault codes	X	Inspect heat exchanger(s), cooler(s), zinc anode(s)	N
Inspect operating parameters while running	X	**Lubrication System**	
Inspect remote annunciator(s)	N	Inspect oil level and condition	X
Electrical		Inspect oil PSI	X
Inspect wiring, connections, and conduit	X	Inspect oil lines/hoses for leaks and damages	X
Inspect batteries	X	Inspect oil filter(s)	X
Inspect battery charger(s)	X	**Air Intake / Ventilation / Exhaust System**	
Inspect alternator(s)	X	Inspect air filter(s) and piping	X
Inspect belt(s) and pulley(s)	X	Inspect crankcase ventilation	X
Inspect engine starting system	X	Inspect air to air cooler	X
Inspect spark ignition system (NG/LP Only)	N	Inspect air ventilation louver motor(s) and controls	X
Fuel System		Inspect exhaust manifold and piping	X
Inspect fuel level	X	Inspect turbocharger(s)	X
Inspect fuel tank	X	Inspect muffler(s)	X
Inspect fuel pump(s)	X	Inspect DEF level and tank	N
Inspect fuel PSI(s)	X	Inspect dosage valve, hoses, and pump	N
Inspect fuel lines, hoses, filters, and manifolds	X	Inspect SCR catalysts and EATS	N
Inspect regulator(s) and shutoff(s) (NG/LP Only)	N	Inspect diesel particulate filter	N

Inspection Comments

Leddy Power Systems, Inc.
www.leddypower.com | CA License # 1071611
Phone (805) 552-4221

LEDDY POWER SYSTEMS, INC.
SERVICE REPORT

Detailed Service Summary
Completed multi-point inspection, replaced oil/ oil filter, coolant filter, air filter, fuel and fuel water separator filters. Took fuel and oil samples. ran unit for approximately 5 min. unit was found in off position, technician was told by site contact to leave in off position.

Please, refer to Leddy Power Systems, Inc. Terms and Conditions of Sale and Service.

Leddy Power Systems, Inc.
www.leddypower.com | CA License # 1071611
Phone (805) 552-4221

SOLVENT & AEROSOL USE LOG

GENON ENERGY
ORMOND BEACH GENERATING STATION
CHEMICAL USAGE REPORT
JANUARY 2024 THROUGH DECEMBER 2024

PRODUCT NAME	VOLUME	Jan-2024	Feb-2024	Mar-2024	Apr-2024	May-2024	Jun-2024	Jul-2024	Aug-2024	Sep-2024	Oct-2024	Nov-2024	Dec-2024
BULK CHEMICAL													
AQUA AMMONIA, 29 %	LBS												
SULFURIC ACID, 95 %	LBS												
HYDROGEN	CF		1,475		664	1,317	635	673	741	736	666	311	732
NITROGEN	CF	1,174	2,523	1,027	1,196	787	2,024	1,158	2,159	1,204	2,182	1,124	1,020
DIESEL - 55GAL DRUMS	GAL	2		3									
SODIUM HYDROXIDE (CAUSTIC)	LBS												
NON-AERSOLS													
*ACETONE	1 PT												
CP-43	55 GAL												
SIMPLE GREEN	1 GAL	8				9	8	6	12		12		
O-88	55 GAL												
RAPID TAP	4 OZ				6								
RUSTLICK	1 GAL												
THINNER # 2	1 GAL												
ANTIFREEZE	1 GAL												
WD-40	1 GAL												
FYRQUEL 220	GAL												
FRYQUEL EHC	GAL												
ROUND-UP HERBICIDE	1 GAL												
LIQUICHLOR/SOD. HYPOCH. 12.5%	GAL												
SODIUM NITRITE MIX 5.1 C-4710	GAL												
SIMPLE GREEN	55 GAL												
AEROKROIL	GAL		2										

2024 AEROSAL SPRAY CAN INVENTORY/USAGE-ORMOND BEACH

	January	February	March	April	May	June	July	August	September	October	November	December
1. Rust Inhibitor												
Starting Inventory	9	9	9	9	9	9	9	9	9	9	9	9
Purchases Added												
Total	9	9	9	9	9	9	9	9	9	9	9	9
Monthly Usage												
2. Outdoor Metal Protectant												
Starting Inventory	2	2	2	2	2	2	2	2	2	2	2	2
Purchases Added												
Total	2	2	2	2	2	2	2	2	2	2	2	2
Monthly Usage												
3. AERO kroil -13OZ/16OZ												
Starting Inventory	7	16	19	18	5	11	7	16	5	10	11	2
Purchases Added	14		20		16	2	14		12	12		12
Total	16	0	20	5	11	7	16	5	10		2	11
Monthly Usage	11	16	21	13	10	4	5	11	7	10	9	11
4. True Tap												
Starting Inventory	22	22	22	18	18	18	18	18	18	18	18	18
Purchases Added												
Total	22	22	18	18	18	18	18	18	18	18	18	18
Monthly Usage			4									
5. 2-26 Precision Lubricant												
Starting Inventory	6	6	6	6	6	6	6	6	6	6	6	6
Purchases Added												
Total	6	6	6	6	6	6	6	6	6	6	6	6
Monthly Usage												
6. WD-40												
Starting Inventory	14	14	10	9	9	6	6	18	18	18	17	17
Purchases Added							13					
Total	14	10	9	9	6	6	18	18	18	17	17	17
Monthly Usage		4	1		3		1			1		
7. Silicone Lubricant 10 oz.												
Starting Inventory	12	19	19	19	19	19	17	17	15	15	15	15
Purchases Added	8											
Total	19	19	19	19	19	17	17	15	15	15	15	15
Monthly Usage	1					2		2				
8. Belt Dressing												

Starting Inventory	23	23	22	22	22	22	22	21	21	20	20	20
Purchases Added												
Total	23	22	22	22	22	22	21	21	20	20	20	20
Monthly Usage		1					1		1			
10. Greaseless Lubricant												
Starting Inventory	9	8	8	8	8	7	7	7	7	7	7	7
Purchases Added												
Total	8	8	8	8	7	7	7	7	7	7	7	7
Monthly Usage	1				1							
11. Chain & Cable Lubricant												
Starting Inventory	8	8	7	15	23	18	16	16	16	16	16	16
Purchases Added			12	12		16						
Total	8	7	19	23	18	16	16	16	16	16	16	16
Monthly Usage		1	4	4	5	2						
12. Dry Graphite												
Starting Inventory	16	16	16	0	0	0	0	0	3	3	2	2
Purchases Added				0				12				
Total	16	16	0	0	0	0	0	3	3	2	2	2
Monthly Usage			16	0				9		1		
13. Wasp & Hornet Killer												
Starting Inventory	3	3	3	3	3	3	3	3	3	3	3	3
Purchases Added												
Total	3	3	3	3	3	3	3	3	3	3	3	3
Monthly Usage												
14. Paint Stripper												
Starting Inventory	5	5	5	5	5	5	5	5	5	5	5	5
Purchases Added												
Total	5	5	5	5	5	5	5	5	5	5	5	5
Monthly Usage												
15. Cold Galvanizing Spray												
Starting Inventory	18	17	8	8	18	14	9	9	6	4	4	4
Purchases Added				11								
Total	17	8	8	18	14	9	9	6	4	4	4	4
Monthly Usage	1	9		1	4	5	3	3	2			
16. Spot Check Penetrant												
Starting Inventory	4	4	4	4	4	4	4	4	4	4	4	4
Purchases Added												
Total	4	4	4	4	4	4	4	4	4	4	4	4
Monthly Usage												
17. Developer												
Starting Inventory	22	22	22	22	22	22	22	22	22	22	22	22

Purchases Added												
Total	22	22	22	22	22	22	22	22	22	22	22	22
Monthly Usage												
18. RTV Silicone												
Starting Inventory	8	8	8	8	8	8	8	8	8	8	8	8
Purchases Added												
Total	8	8	8	8	8	8	8	8	8	8	8	8
Monthly Usage												
19. CRC Food Grade Silicone 3.3 oz.												
Starting Inventory	23	23	23	23	23	21	21	21	19	19	19	19
Purchases Added												
Total	23	23	23	23	21	21	21	19	19	19	19	19
Monthly Usage					2			1				
20. Jump Start												
Starting Inventory	20	20	20	20	20	20	20	20	20	20	20	20
Purchases Added												
Total	20	20	20	20	20	20	20	20	**20**	20	20	20
Monthly Usage												
21. Crystal Clear												
Starting Inventory	15	15	15	15	15	15	15	15	15	15	15	15
Purchases Added												
Total	15	15	15	15	15	15	15	15	15	15	15	15
Monthly Usage												
22. Red Insulating Varnish												
Starting Inventory	7	7	7	6	4	4	4	4	4	11	10	10
Purchases Added				2					12			
Total	7	7	6	4	4	4	4	4	11	10	10	10
Monthly Usage			1	4					5	1		
23. Red Paint												
Starting Inventory	8	8	8	8	13	13	13	13	13	13	13	13
Purchases Added				7								
Total	8	8	8	13	13	13	13	13	13	13	13	13
Monthly Usage				2								
24. Royal Blue Paint												
Starting Inventory	10	6	9	16	16	16	15	15	15	15	13	13
Purchases Added		4	7									
Total	6	10	16	16	16	15	15	15	15	13	13	13
Monthly Usage	4	1				1				2		
25. Gray Primer												
Starting Inventory	15	12	12	13	13	13	11	11	11	11	7	7
Purchases Added			3	2		4						

Total	12	12		13	13	7	11	11	11	7	7	7
Monthly Usage	3		2	2		6				4		
26. White Paint												
Starting Inventory	4	4	4	4	4	4	17	17	17	17	17	17
Purchases Added						14						
Total	4	4	4	4	4	17	17	17	17	17	17	17
Monthly Usage						1						
27. Semi-Gloss/Flat Black												
Starting Inventory	10	7	17	17	17	17	17	17	17	17	17	17
Purchases Added		12										
Total		19	17	17	17	17	17	17	17	17	17	17
Monthly Usage	3	2										
28. Gloss Black												
Starting Inventory	8	5	16	13	8	8	7	7	7	7	10	10
Purchases Added		12								4		
Total	5	17	13	8	8	7	7	7	7	10	10	10
Monthly Usage	3	1	3	5		1				1		
29. High Heat Aluminum Paint												
Starting Inventory	8	8	8	8	8	8	8	8	8	8	8	8
Purchases Added												
Total	8	8	8	8	8	8	8	8	8	8	8	8
Monthly Usage												
30. FLEX SEAL												
Starting Inventory	8	8	8	8	8	8	8	8	8	8	8	8
Purchases Added												
Total	8	8	8	8	8	8	8	8	8	8	8	8
Monthly Usage												
31. Dykem Aerosol Remover												
Starting Inventory	6	5	5	5	5	5	5	5	5	5	5	5
Purchases Added												
Total	5	5	5	5	5	5	5	5	5	5	5	5
Monthly Usage	1											
32. White Lithium												
Starting Inventory	7	15	15	15	15	14	14	14	14	14	14	14
Purchases Added	12											
Total	15	15	15	15	14	14	14	14	14	14	14	14
Monthly Usage	4				1							
33. Glass Cleaner												
Starting Inventory	7	9	9	7	7	7	7	5	5	14	13	13
Purchases Added	3								10			
Total	9	9	7	7	7	7	5	5	14	13	13	13

Monthly Usage	1		2				2		1	1		
34. Yellow/White Marker Paint												
Starting Inventory	3	3	3	3	3	3	3	3	3	3	3	3
Purchases Added												
Total	3	3	3	3	3	3	3	3	3	3	3	3
Monthly Usage												
35. High Heat Black Paint												
Starting Inventory	7	7	7	7	7	7	7	7	7	7	7	7
Purchases Added												
Total	7	7	7	7	7	7	7	7	7	7	7	7
Monthly Usage												
36. Gray(Stainless)Paint												
Starting Inventory	4	4	4	4	4	4	4	4	4	4	4	4
Purchases Added												
Total	4	4	4	4	4	4	4	4	4	4	4	4
Monthly Usage												
38. Contact Cleaner												
Starting Inventory	9	3	10	9	6	0	10	17	7	7	19	13
Purchases Added	12	15	21	9		18	11	3	12	27		
Total	3	18	9	6	o	18	17	7	7	19	13	11
Monthly Usage	24	8	25	12	6	8	4	14	12	8	6	2
39. Fluid Film/Linebacker												
Starting Inventory	11	11	10	20	20	20	20	13	11	21	19	19
Purchases Added			10					3	12	2		
Total	11	10	20	20	20	20	20	11	21	19	19	15
Monthly Usage		1					7	5	2	4		4
40. Polyurethane Foam Sealant												
Starting Inventory	9	8	8	8	8	8	8	8	8	8	8	8
Purchases Added												
Total	8	8	8	8	8	8	8	8	8	8	8	8
Monthly Usage	1											
41. Spray Adhesive												
Starting Inventory	32	31	31	28	28	21	21	20	20	20	19	19
Purchases Added												
Total	31	31	28	28	21	21	20	20	20	19	19	19
Monthly Usage	1		3		7		1			1		

CUMULATIVE EMMISSIONS
OPERATING HOURS & FUEL USE

Cumulative Emissions

Plant: ORB
Cumulative Emissions for: 2024

	AUX-N				AUX-S			
	GASFLOW KSCFH	**NOX#/HR LB/HR**	**UNITOPHR OpTime**	**UNITOPHR OpHrs**	**GASFLOW KSCFH**	**NOX#/HR LB/HR**	**UNITOPHR OpTime**	**UNITOPHR OpHrs**
January	1,358.6	45.7	22.1	23	1,474.8	42.7	24.7	26
February	3,660.9	136.7	63.4	69	3,985.5	119.7	57.6	62
March	0.1	0.0	0.0	1	25.6	0.0	0.1	1
April	0.0	0.0	0.0	0	0.0	0.0	0.0	0
May	11,305.4	386.4	134.1	142	19,809.8	583.0	251.1	261
June	3,528.1	111.4	33.6	36	4,473.0	120.1	47.5	50
July	3,869.6	115.9	48.5	50	4,733.2	132.3	75.6	82
August	7,398.6	254.3	96.2	103	6,898.8	186.5	87.8	94
September	5,320.3	137.8	63.9	70	9,467.7	235.8	112.4	119
October	1,482.3	46.5	29.2	31	1,753.2	41.8	32.2	34
November	1,980.5	64.5	27.8	30	1,989.1	59.3	26.2	27
December	0.0	0.0	0.0	0	0.0	0.0	0.0	0
Quarter 1	5,019.7	182.3	85.5	93	5,486.0	162.4	82.5	89
Quarter 2	14,833.5	497.8	167.7	178	24,282.7	703.1	298.6	311
Quarter 3	16,588.6	508.0	208.5	223	21,099.7	554.7	275.8	295
Quarter 4	3,462.8	111.0	57.0	61	3,742.3	101.1	58.4	61
YTD	**39,904.6**	**1,299.1**	**518.7**	**555**	**54,610.7**	**1,521.3**	**715.2**	**756**

Cumulative Emissions

Plant: ORB
Cumulative Emissions for: 2024

	ORB1				ORB2			
	GASFLOW HSCFH	**NOX#/HR LBS/HR**	**UNITOPHR OpTime**	**UNITOPHR OpHrs**	**GASFLOW HSCFH**	**NOX#/HR LBS/HR**	**UNITOPHR OpTime**	**UNITOPHR OpHrs**
January	0.0	0.0	0.0	0	47,591.2	74.4	10.4	11
February	75,527.6	651.0	15.0	16	0.0	0.0	0.0	0
March	0.0	0.0	0.0	0	0.0	0.0	0.0	0
April	0.0	0.0	0.0	0	0.0	0.0	0.0	0
May	370,450.1	617.5	25.3	27	330,213.3	526.2	29.0	33
June	309,611.9	521.4	22.6	24	3,454.8	4.3	1.3	3
July	6,098.8	6.4	2.8	4	320,052.0	155.9	32.4	34
August	396,313.1	388.5	20.2	22	462,775.3	418.9	26.1	29
September	1,538,668.2	1,327.0	84.8	87	1,587,705.8	1,012.2	99.8	101
October	0.0	0.0	0.0	0	90,036.0	89.2	17.1	18
November	96,950.1	204.7	12.6	13	0.0	0.0	0.0	0
December	0.0	0.0	0.0	0	0.0	0.0	0.0	0
Quarter 1	75,527.6	651.0	15.0	16	47,591.2	74.4	10.4	11
Quarter 2	680,061.9	1,138.9	47.9	51	333,668.1	530.5	30.4	36
Quarter 3	1,941,080.0	1,721.9	107.8	113	2,370,533.0	1,586.9	158.2	164
Quarter 4	96,950.1	204.7	12.6	13	90,036.0	89.2	17.1	18
YTD	**2,793,619.6**	**3,716.5**	**183.3**	**193**	**2,841,828.3**	**2,281.0**	**216.1**	**229**

VISUAL EMISSIONS REPORT

July 15, 2024

Mr. Roger Kahle
Ormond Beach Power, LLC
6635 S. Edison Drive
Oxnard, California 93033

Subject: **Ormond Beach Unit 1, Auxiliary Boiler North, Auxiliary Boiler South, and Emergency Standby Engine Visual Emissions Report - 2024**
Report Number: W002AS-041566-RT-6251

Dear Roger,

Montrose Air Quality Services, LLC (MAQS) performed visual emission opacity observations for Ormond Beach Generating Station Four Sources: Unit 1, Auxiliary Boiler North, Auxiliary Boiler South, and Emergency Standby Engine on June 11, 2024. Josh Suzuki, a CARB certified visible emission evaluator (most recent re-certification performed 1/24/2024), performed the tests.

The results of the tests show that no visible emissions were observed during the tests for Unit 1, Auxiliary Boiler North, Emergency standby engine, and Auxiliary Boiler South. The maximum opacity was observed at 0% for all the sources which is less than the 20% opacity limit stipulated in Ventura County Air Pollution Control District (VCAPCD) Rule 50. The raw data sheets are provided as an attachment.

Please give me a call if you have any questions or comments regarding this report at (714) 279-6777.

Sincerely,

Josh Suzuki
Field Project Manager
Montrose Air Quality Services, LLC

JS/rcr
Attachments

ATTACHMENTS

VISIBLE EMISSION OBSERVATION DATA SHEET

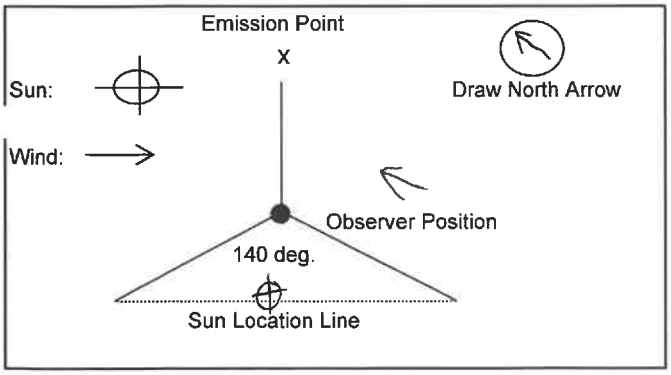
Facility Name:	~~NRG~~ Ormond Beach
Street Address	6635 Edison Dr
City	Oxnard
State	CA
Zip	93033
Phone	

Process Equipment:	Unit 1
Operating Mode:	On
Control Equipment:	
Operating Mode:	

Describe Emission Point:	stack exit
Ht. Above Ground Level:	200'
Ht. Rel. to Observer:	200'
Dist. from Observer:	600'
Dir. from Observer:	NE

Describe Emissions			
Start:	None	End:	None
Emission Color:			
Start:	N/A	End:	N/A
Water Plume Present?	Yes		
Point in the Plume at which Opacity was Determined:	stack exit		

Describe Plume Background:	sky		
Background Color:			
Start:	gray	End:	gray
Sky Conditions:			
Start:	OVC	End:	OVC
Wind Speed:			
Start:	5mph	End:	5mph
Wind Direction:			
Start:	S	End:	S
Ambient Temperature:			
Start:	62°	End:	62°



Observation Date:	Start Time	End Time:
6/11/2024	1643	1703

	Seconds			
Minute	0	15	30	45
1	O	O	O	O
2	O	O	O	O
3	O	O	O	O
4	O	O	O	O
5	O	O	O	O
6	O	O	O	O
7				
8	O	O	O	O
9	O	O	O	O
10	O	O	O	O
11	O	O	O	O
12	O	O	O	O
13	O	O	O	O
14				
15	O	O	O	O
16	O	O	O	O
17	O	O	O	O
18	O	O	O	O
19	O	O	O	O
20	O	O	O	O
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

Observers Name:	Josh Suzuki
Observers Signature:	
Date:	6/11/2024
Company Name	Montrose Air Quality Services
Certified By:	
Date:	
Cal. Air Resources Board	

VISIBLE EMISSION OBSERVATION DATA SHEET

SA 7/15

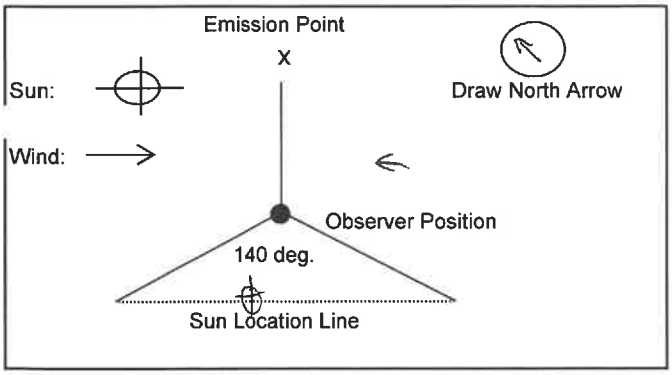
Facility Name:		
~~NRG~~ Ormond Beach		
Street Address		
6635 Edison Dr		
City	State	Zip
Oxnard	CA	93033
Phone		

Process Equipment:	Operating Mode:
Diesel Generator	On
Control Equipment:	Operating Mode:

Describe Emission Point:	
Stack exit	
Ht. Above Ground Level:	Ht. Rel. to Observer:
10'	10'
Dist. from Observer:	Dir. from Observer:
30'	NE

Describe Emissions			
Start:	None	End:	None
Emission Color:			
Start:	N/A	End:	N/A
Water Plume Present?	No		
Point in the Plume at which Opacity was Determined:			
Stack exit			

Describe Plume Background:			
Sky			
Background Color:			
Start:	gray	End:	gray
Sky Conditions:			
Start:	OVC	End:	OVC
Wind Speed:			
Start:	5mph	End:	5mph
Wind Direction:			
Start:	SE	End:	SE
Ambient Temperature:			
Start:	62°	End:	62°



Observation Date:	Start Time	End Time:
6/11/2024	1554	1614

	Seconds			
Minute	0	15	30	45
1	O	O	O	O
2	O	O	O	O
3	O	O	O	O
4	O	O	O	O
5	O	O	O	O
6	O	O	O	O
7				
8	O	O	O	O
9	O	O	O	O
10	O	O	O	O
11	O	O	O	O
12	O	O	O	O
13	O	O	O	O
14				
15	O	O	O	O
16	O	O	O	O
17	O	O	O	O
18	O	O	O	O
19	O	O	O	O
20	O	O	O	O
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

Observers Name:	
Josh Suzuki	
Observers Signature:	Date:
	6/11/2024
Company Name	
Montrose Air Quality Services	
Certified By:	Date:
Cal. Air Resources Board	

VISIBLE EMISSION OBSERVATION DATA SHEET

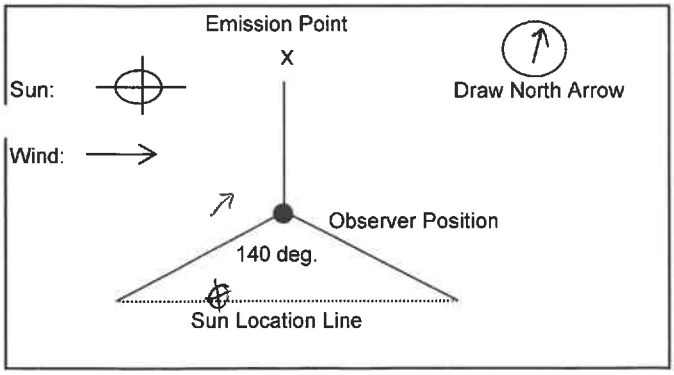
Facility Name:	7/15 ~~NRG~~ Ormond Beach
Street Address	6635 Edison Dr
City	Oxnard
State	CA
Zip	93033
Phone	

Process Equipment:	Aux Boiler N
Operating Mode:	on
Control Equipment:	
Operating Mode:	

Describe Emission Point:	Stack exit
Ht. Above Ground Level:	50'
Ht. Rel. to Observer:	50'
Dist. from Observer:	150'
Dir. from Observer:	NW

Describe Emissions			
Start:	None	End:	None
Emission Color:			
Start:	N/A	End:	N/A
Water Plume Present?	No		
Point in the Plume at which Opacity was Determined:	Stack exit		

Describe Plume Background:	Sky		
Background Color:			
Start:	gray	End:	gray
Sky Conditions:			
Start:	OVC	End:	OVC
Wind Speed:			
Start:	3mph	End:	3mph
Wind Direction:			
Start:	NE	End:	NE
Ambient Temperature:			
Start:	63°	End:	63°



Observation Date:	Start Time	End Time:
6/11/2024	1620	1640

	Seconds			
Minute	0	15	30	45
1	O	O	O	O
2	O	O	O	O
3	O	O	O	O
4	O	O	O	O
5	O	O	O	O
6	O	O	O	O
7				
8	O	O	O	O
9	O	O	O	O
10	O	O	O	O
11	O	O	O	O
12	O	O	O	O
13	O	O	O	O
14				
15	O	O	O	O
16	O	O	O	O
17	O	O	O	O
18	O	O	O	O
19	O	O	O	O
20	O	O	O	O
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

Observers Name:	Josh Suzuki
Observers Signature:	Josh Suzuki
Date:	6/11/2024
Company Name	Montrose Air Quality Services
Certified By:	Cal. Air Resources Board
Date:	

VISIBLE EMISSION OBSERVATION DATA SHEET

Facility Name:	~~NRG~~ Ormond Beach
Street Address	6635 Edison Dr
City	Oxnard
State	CA
Zip	93033
Phone	

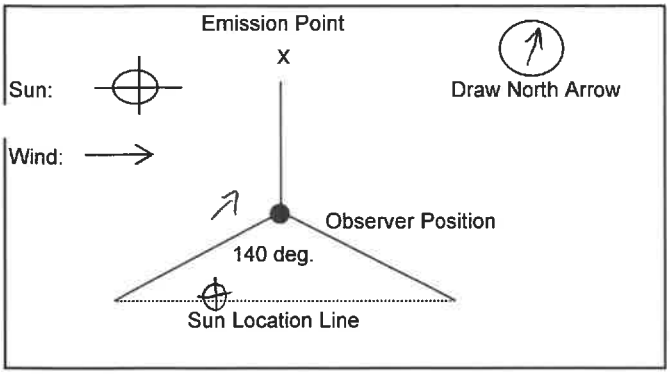
SA 7/15

Process Equipment:	Operating Mode:
Aux Boiler S	on
Control Equipment:	Operating Mode:

Describe Emission Point:	
stack exit	
Ht. Above Ground Level:	Ht. Rel. to Observer:
50'	50'
Dist. from Observer:	Dir. from Observer:
150'	NW

Describe Emissions			
Start:	None	End:	None
Emission Color:			
Start:	N/A	End:	N/A
Water Plume Present?	No		
Point in the Plume at which Opacity was Determined:			
stack exit			

Describe Plume Background:			
sky			
Background Color:			
Start:	gray	End:	gray
Sky Conditions:			
Start:	OVC	End:	OVC
Wind Speed:			
Start:	3mph	End:	3mph
Wind Direction:			
Start:	NE	End:	NE
Ambient Temperature:			
Start:	63°	End:	63°



Observation Date:	Start Time	End Time:
6/11/2024	1620	1640

	Seconds			
Minute	0	15	30	45
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7				
8	0	0	0	0
9	0	0	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	0	0	0	0
14				
15	0	0	0	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21				
22				
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33				
34				
35				
36				
37				
38				
39				
40				

Observers Name:	Josh Suzuki
Observers Signature:	Date: 6/11/2024
Company Name	Montrose Air Quality Services
Certified By:	Date:
Cal. Air Resources Board	

CALIFORNIA
AIR RESOURCES BOARD

Air Quality Training Program

Awards This Certificate To

Josh Suzuki

For Completion Of

MM106 - Visible Emissions Evaluation: Day Certification

In
El Cajon

On
Wednesday, January 24, 2024

This certificate expires six months after the evaluation completion date.

Heather Quiros, Acting Chief

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

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

August 29, 2024

Mr. Roger Kahle
Ormond Beach Power, LLC
6635 S. Edison Drive
Oxnard, California 93033

Subject: **Ormond Beach Unit 2 Visual Emissions Report – 3Q24**
Report Number: W002AS-045002-RT-6472

Dear Roger,

Montrose Air Quality Services, LLC (MAQS) performed visual emission opacity observations for Ormond Beach Unit 2 on August 28, 2024. Surya Adhikari, a CARB certified visible emission evaluator (most recent re-certification performed 8/1/2024), performed the tests.

The results of the tests show that no visible emissions were observed during the test. The raw data sheets are provided as an attachment.

Please give me a call if you have any questions or comments regarding this report at (714) 279-6777.

Sincerely,

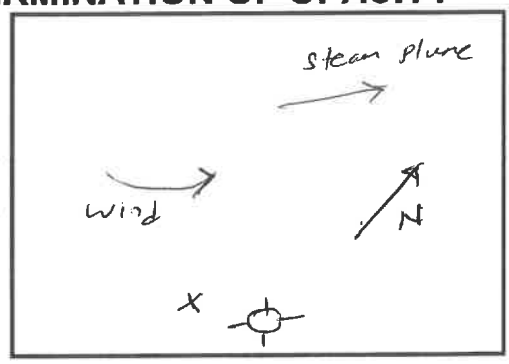
Surya Adhikari
Senior Reporting QC Specialist
Montrose Air Quality Services, LLC

SA/rcr
Attachments

ATTACHMENTS

FIGURE 9-1. RECORD OF VISUAL DETERMINATION OF OPACITY

Company: Ormond Beach Power, LLC
Location: Unit-2
Test No.: 1-2-3-VEE-2
Date: 8-28-2024
Type Facility: Natural gas utility Boiler
Control Device: SCR
Hours of Observation: 11:28 - 11:45
Observer: Surya Adhikari
Observer Certification Date: 8/1/2024
Point of Emissions: Stack
Observer Affiliation: Montrose Environmental
Height of Discharge Point: ≈ 220'



KEY
X = Observer
= Sun
WD = Wind Direction
O = Stack

CLOCK TIME	Initial			Final
Distance to Discharge	~700'			~700' SA 11/18
Direction from Discharge	N			N
Height of Observation Point	Ground			Ground
BACKGROUND DESCRIPTION	Sky - pt. cloudy			Sky - Pt. cloudy
WEATHER CONDITIONS				
Wind Direction	SW			SW
Wind Speed	6 mph			7 mph
Ambient Temperature	69°F			70°F
SKY CONDITIONS (clear, overcast, % clouds, etc.	Partly cloudy			partly cloudy
PLUME DESCRIPTION				
Color	Steam			steam
Distance Visible	1/2-3/4 mile			1/2-3/4 mile
OTHER INFORMATION				

SUMMARY OF AVERAGE OPACITY

Set Number	Time	Opacity	
	Start - End	Sum	Average
1	11:28 - 11:33	0	0
2	11:34 - 11:39	0	0
3	11:40 - 11:45	0	0

Readings ranged from 0 to 0 % opacity.
The source was/was not in compliance with _____ at the time the evaluation was made.

Figure 9-2. Observation record.

MONTROSE AIR QUALITY SERVICES

Company Ormond Beach Observer Surya Adhikari

Location Unit-2 Type facility Natural gas Utility Boiler

Test Number 1-2-3 = VEE Point of emissions Stack

HR.	MIN.	SECONDS 0	15	30	45	STEAM PLUME (check if applicable) ATTACHED	DETACHED	Comments
	0							
	1							
	2							
	3							
	4							
	5							
	6							
	7							
	8							
	9							
	10							
	11							
	12							
	13							
	14							
	15							
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24							
	25							
	26							
	27							
11	28	0	0	0	0	Steam plume		Thick attached steam plume
11	29	0	0	0	0			
11	30	0	0	0	0			
11	31	0	0	0	0			
11	32	0	0	0	0			
11	33	0	0	0	0			
11	34	0	0	0	0			
11	35	0	0	0	0			
11	36	0	0	0	0			
11	37	0	0	0	0			
11	38	0	0	0	0			
11	39	0	0	0	0			
11	40	0	0	0	0			
11	41	0	0	0	0			
11	42	0	0	0	0			
11	43	0	0	0	0			
11	44	0	0	0	0			
11	45	0	0	0	0			
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							

R1 R2 R3

CALIFORNIA
AIR RESOURCES BOARD

Air Quality Training Program

Awards This Certificate To

Surya Adhikari

For Completion Of

MM106 - Visible Emissions Evaluation: Day Certification

In
Long Beach

On
Thursday, August 1, 2024

This certificate expires six months after the evaluation completion date.

Heather L Quiros

Heather Quiros, Chief
Enforcement Division

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

Name: Mr. Surya Adhikari
Title: Senior Reporting QC Specialist
Region: West
Email: suadhikari@montrose-env.com
Phone: (714) 279-6777

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

ANNUAL GAS CERTIFCATION

Atmospheric Analysis & Consulting, Inc.

CLIENT	: Ormond Power LLC/Genon
PROJECT NAME	: Annual Natural Gas
AAC PROJECT NO.	: 241349
REPORT DATE	: 06/24/2024

On June 11th 2024, Atmospheric Analysis & Consulting, Inc. received one (1) Tedlar Bag for BTU analysis by ASTM D-3588/5504. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.
Ormond Power LLC	241349-59592

This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aaclab.com.

I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of this sample. The Technical Director or his/her designee, as verified by the following signature, has authorized release of the data.

If you have any questions or require further explanation of data results, please contact the undersigned.

Sucha Parmar, Ph.D.
Technical Director

This report consists of 7 pages.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Laboratory Analysis Report
ASTM-D3588 (BTU and F-Factor)

CLIENT : Ormond Power LLC/Genon
PROJECT NO. : 241349

SAMPLING DATE : 06/11/2024
ANALYSIS DATE : 06/13/2024

	Client ID:	Ormond Power LLC			
	AAC ID:	241349-59592			
	Component	Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H_2	< 1.00	1.00	< 0.001	0.001
	O_2	0.494	0.100	0.904	0.002
	N_2	2.57	0.100	4.12	0.001
	CO	< 0.100	0.100	< 0.001	0.001
	CO_2	0.787	0.100	1.98	0.002
	CH_4	91.1	0.00005	83.6	0.004
	He	NM	NM	NM	NM
	Ar	< 0.100	0.100	< 0.002	0.002
HYDROCARBONS	C_2 (as Ethane)	4.41	0.00005	7.58	0.0001
	C_3 (as Propane)	0.492	0.00005	1.24	0.0001
	C_4 (as Butane)	0.127	0.00005	0.423	0.0002
	C_5 (as Pentane)	0.0320	0.00005	0.132	0.0002
	C_6 (as Hexane)	0.00814	0.00005	0.0401	0.0002
	C_{6+} (as Hexane)	0.00422	0.00005	0.0208	0.0002
TRS	Total Reduced Sulfur	0.000215	0.0000010	0.000419	0.000002
H2O	Moisture content	NM	NM	NM	NM

All results have been normalized to 100% on a dry basis.

Fuel Gas Specifications			
Atomic Breakdown - (scf/lb) / %		*HHV Btu/lb*	22055
Carbon (C)	70.7	*LHV Btu/lb*	19878
Hydrogen (H)	22.9	*HHV Btu/dscf*	1016
Oxygen (O)	2.34	*LHV Btu/dscf*	917
Nitrogen (N)	4.12	*F-Factor*	8653
Helium (He)	0.00	*Relative Density*	0.604
Argon (Ar)	0.00	*C2-C6+ Weight %*	0.00
Sulfur (S)	0.00	*MW lb/lb-mole*	17.5
Motor Octane Number	129	*Methane Number*	89.8
		Wobbe Number	1308

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

LABORATORY ANALYSIS REPORT

CLIENT : Ormond Power LLC/Genon
PROJECT NO. : 241349
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 06/11/2024
ANALYSIS DATE : 06/12/2024

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	Ormond Power LLC
AAC ID	241349-59592
Analyte	Result
Hydrogen Sulfide	< 0.050
COS / SO2	< 0.050
Methyl Mercaptan	**0.159**
Ethyl Mercaptan	< 0.050
Dimethyl Sulfide	**0.058**
Carbon Disulfide	< 0.050
Isopropyl Mercaptan	< 0.050
tert-Butyl Mercaptan	**0.696**
n-Propyl Mercaptan	< 0.050
Methylethylsulfide	< 0.050
sec-Butyl Mercaptan / Thiophene	< 0.050
iso-Butyl Mercaptan	< 0.050
Diethyl Sulfide	< 0.050
n-Butyl Mercaptan	< 0.050
Dimethyl Disulfide	**0.267**
2-Methylthiophene	< 0.050
3-Methylthiophene	< 0.050
Tetrahydrothiophene	**0.895**
Bromothiophene	< 0.050
Thiophenol	< 0.050
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	< 0.050
Total Reduced Sulfurs	**2.08**

All unidentified compound's concentrations expressed in terms of H_2S (TRS does not include COS and SO_2)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Quality Control/Quality Assurance Report

Date Analyzed : 06/13/2024
Analyst : DM/NR
Units : %

Instrument ID : TCD #1
Calb Date : 09/26/23
Reporting Limit : 0.1%

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
CCV	Spike Conc	10.0	9.9	19.9	10.0	10.0	10.0
	Result	9.9	9.9	22.8	9.9	9.2	9.7
	% Rec *	98.9	99.9	114.3	99.4	91.7	97.1

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	10.0	9.9	19.9	10.0	10.0	10.0
	LCS Result	10.2	10.7	22.9	9.9	9.2	9.7
	LCSD Result	10.4	10.3	22.4	10.3	9.5	10.0
	LCS % Rec *	101.4	107.4	114.8	99.7	91.8	97.3
	LCSD % Rec *	103.1	104.0	112.7	103.1	94.9	100.6
	% RPD ***	1.7	3.2	1.8	3.4	3.3	3.3

IV -Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
241247-59152	Sample	0.0	11.5	49.8	0.2	0.0	0.8
	Sample Dup	0.0	11.6	50.2	0.2	0.0	0.8
	Mean	0.0	11.6	50.0	0.2	0.0	0.8
	% RPD ***	0.0	0.8	0.8	4.1	0.0	1.2

V - Matrix Spike & Duplicate- BTU/ASTM D-1945

AAC ID	Analyte	H_2	N_2	CH_4	CO	CO_2
241247-59152	Sample Conc	0.0	25.0	0.1	0.0	0.4
	Spike Conc	10.0	10.0	10.0	10.0	10.0
	MS Result	10.7	36.5	10.6	9.7	10.6
	MSD Result	10.5	36.7	10.3	9.5	10.4
	MS % Rec **	106.9	115.3	105.0	97.0	102.7
	MSD % Rec **	104.8	117.0	102.9	94.9	100.6
	% RPD ***	1.9	1.5	2.0	2.2	2.1

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	H_2	O_2	N_2	CH_4	CO	CO_2
CCV	Spike Conc	10.0	9.9	19.9	10.0	10.0	10.0
	Result	10.5	10.1	22.6	10.6	9.8	10.3
	% Rec *	104.5	101.9	113.7	106.7	98.3	103.6

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Quality Control/Quality Assurance Report

Date Analyzed : 06/13/2024
Analyst : RW
Units : ppmv

Instrument ID : FID#6
Calb Date : 10/17/2023
Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	112.0	111.9	110.7	110.1	111.0	106.7
	% Rec *	113.3	112.9	112.1	112.2	113.1	106.9

II - Method Blank - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
MB	Concentration	ND	ND	ND	ND	ND	ND

III - Laboratory Control Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
Lab Control Standards	Sample Conc	0.0	0.0	0.0	0.0	0.0	0.0
	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	LCS Result	94.3	92.9	92.1	92.4	93.2	90.2
	LCSD Result	90.4	89.4	89.3	88.5	89.3	85.9
	LCS % Rec *	95.4	93.7	93.3	94.2	94.9	90.4
	LCSD % Rec *	91.4	90.2	90.5	90.2	91.0	86.1
	% RPD ***	4.3	3.8	3.1	4.3	4.2	4.9

IV - Sample & Sample Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
232089-49905	Sample	2.8	0.0	0.0	0.0	0.0	0.0
	Sample Dup	2.9	0.0	0.0	0.0	0.0	0.0
	Mean	2.8	0.0	0.0	0.0	0.0	0.0
	% RPD ***	1.1	0.0	0.0	0.0	0.0	0.0

V - Matrix Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
232089-49905	Sample Conc	1.4	0.0	0.0	0.0	0.0	0.0
	Spike Conc	49.4	49.6	49.4	49.0	49.1	49.9
	MS Result	56.1	53.7	53.2	53.2	53.3	51.2
	MSD Result	55.2	53.0	52.4	52.6	52.7	52.1
	MS % Rec **	110.7	108.4	107.9	108.4	108.6	102.6
	MSD % Rec **	108.8	106.9	106.1	107.2	107.5	104.4
	% RPD ***	1.7	1.3	1.7	1.1	1.0	1.7

VI - Closing Continuing Calibration Verification - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	98.9	99.1	98.7	98.1	98.1	99.7
	Result	105.0	104.5	104.2	104.8	106.1	103.4
	% Rec *	106.2	105.5	105.6	106.9	108.1	103.7

** Must be 85-115%*

*** Must be 75-125%*

**** Must be < 25%*

ND = Not Detected

<RL = less than Reporting Limit

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

Quality Control/Quality Assurance Report
ASTM D-5504

Date Analyzed: 6/12/2024
Analyst: KM
Units: ppbV

Instrument ID : SCD#10
Calb. Date: : 04/03/2024

Opening Calibration Verification Standard

510.5 ppbV H2S (GC-110223-01)

H_2S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	13912	496	97.2	0.3
Duplicate	13645	487	95.3	2.2
Triplicate	14289	510	99.8	2.4

501.8 ppbV H2S (GC-110223-01)

MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	12022	502	100.0	2.0
Duplicate	12395	517	103.1	1.0
Triplicate	12399	518	103.2	1.0

497.0 ppbV H2S (GC-110223-01)

DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	18391	498	100.2	0.2
Duplicate	18170	492	99.0	1.4
Triplicate	18745	508	102.2	1.7

Method Blank

Analyte	Result
H_2S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis **Sample ID 231800-48645**

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H_2S	<PQL	<PQL	0.0	0.0
MeSH	<PQL	<PQL	0.0	0.0
DMS	<PQL	<PQL	0.0	0.0

Matrix Spike & Duplicate **Sample ID 231800-48645**

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H_2S	<PQL	255.3	246.0	240.0	96.4	94.0	2.5
MeSH	<PQL	250.9	252.8	245.9	100.8	98.0	2.8
DMS	<PQL	248.5	260.7	263.6	104.9	106.1	1.1

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H_2S	510.5	482.6	94.5
MeSH	501.8	513.3	102.3
DMS	497.0	505.8	101.8

** Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.*

MeSH: PQL = 10.5 ppbV, MDL = 1.12 ppbV
DMS: PQL = 11.0 ppbV, MDL = 1.12 ppbV

2225 Sperry Ave., Ventura, CA 93003 www.aaclab.com (805) 650-1642

241349

CHAIN OF CUSTODY AND ANALYSIS REQUEST – Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

Atmospheric Analysis and Consulting · Phone: 805-650-1642 · Email: info@aaclab.com · 2225 Sperry Ave, Ventura, CA 93003

AAC Project No.:

Client/Company Name: Ormond Beach LLC / Power Genon
Project Manager Name: [illegible]

Project Name: ANNUAL NATURAL GAS
Project Number:

Send Report To (Name/Email/Address): ROGER.KAHLE@GENON.COM 805 341 6167
Send Invoice To (Name/Email/Address): SAME AS ABOVE
PO Number: CREDIT CARD

Turnaround Time
☐ Rush 24 h ☐ Same Day
☐ Rush 48 h ☐ 5 Days
☐ Rush 72 h ☒ Normal

Sampler Name: PARKER RUSSELL
Print: Parker Russell
Signature: [signature]

Client Sample Name	Sample ID	Sampling Date	Sampling Time	Container Type/Qty	NAT GAS ANALYSIS ASTM D1945 + D3588	TOTAL REDUCED SULFUR METHOD GC/PFPD GR/100 SCF				Lab ID (LAB USE ONLY)
ORMOND BEACH LLC 59592	OB NATGAS	11 June '24	1355	BAG / 1	X	X				

LAB USE ONLY
Sample Received via: ☐FedEx ☐UPS ☐Courier ☐Other ________
Temperature ________ °C
Thermometer ID ________
Initials ________
Returned Eqmt
Total cans: ________
Unused cans: ________
Flow Controllers: ________

Client Notes/Special Instructions: PLEASE RUN AS FROM # 232145
EMAIL TO: ROGER.KAHLE@GENON.COM
805-341-6167

EDD? ☐Yes ☐No

LAB USE ONLY
Notes:

Relinquished By	Date / Time	Received By	Date / Time
Print: Signature:	Date: Time:	Print: Signature:	Date: Time:
Print: PARKER RUSSELL Signature: [signature]	Date: 6-11-24 Time: 2:59PM	Print: Signature: [signature]	Date: 6/11/24 Time: 1458

ASBESTOS NOTIFICATION

Ventura County Air Pollution Control District

Asbestos Notification Form ENF-62 for Demolition or Renovation

Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor Ventura, California 93003
Contact: Kourtney Heald 805/303-3702 or
Ken Hall 805/303-3709 asbestos@vcapcd.org

NOTIFICATION OF DEMOLITION OR RENOVATION

Notifications for non-residential renovation or demolition operations shall be delivered no later than 10 working days prior to commencement of demolition or renovation work.

Only typed forms will be accepted

NOTIFICATION MUST ALSO BE SENT TO CAL-OSHA (EPA REGION IX DOES NOT REQUIRE A COPY OF NOTIFICATION).
CAL-OSHA ~ 6150 Van Nuys Blvd, Suite 405, Van Nuys, CA 91401 PHONE: 818/901-5403 FAX: 818/901-5578 (Prefer FAX)

I. TYPE OF NOTIFICATION	◉ Original ○ Revised ○ Cancelled IF REVISION, state: Change in amount, start/completion date, other?	Owner/Contractor Project #
	Annual Asbestos Notification Original - 2024	50309D

II. FACILITY INFORMATION [Identify owner and removal contractor]

PROPERTY OWNER(S): Gen On Energy Ormond Beach Generation Station		
ADDRESS: [No Post Office Boxes] 6635 Edison Drive		
CITY: Oxnard	STATE: CA.	ZIP: 93033
CONTACT: Rodger Kahle	TELEPHONE: 805-984-5217	Email: Rodger.Kahle@genon.cc
REMOVAL CONTRACTOR: D2 Industrial Services		
ADDRESS: [No Post Office Boxes] 1501 W. Fountainhead Parkway		
CITY: Tempe	STATE: AZ.	ZIP: 85282
CONTRACTOR'S SITE FOREMAN: Kenneth Bringuez	ABATEMENT CONTRACTOR OFFICE TELEPHONE: 310-608-8070	

RULE 62.7.B.2.K: For operations involving the removal of friable ACM, Ventura County APCD requires proof of California State Contractor's License Certification #, CAL OSHA Reg. #, and date of expiration

CA STATE CONTRACTOR LIC. NO. #1035992	CAL OSHA REG. NO. #1182	EXPIRATION DATE: 10/10/2024

III. TYPE OF OPERATION	☐ DEMO	☐ ORDERED DEMO	☑ RENOVATION	☐ EMERGENCY RENOVATION
	Demo definition: Removal of load bearing wall.			
IV. IS ASBESTOS PRESENT?	◉ YES	○ NO		

V. FACILITY DESCRIPTION [Include building name, number, and floor or room number]

BUILDING NAME: Unit-1,2		
ADDRESS: 6635 Edison Drive		
CITY: Oxnard	STATE: CA.	ZIP: 93033
BUILDING SIZE (sqft): N/A	NUMBER OF FLOORS: N/A	
SITE LOCATION: [i.e., basement, attic, crawl space, etc.] Unit-1,2		
PRESENT USE: Power Generation Station	PRIOR USE: Power Generation Station	

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:

PLM - Bulk sampling by third party state certified consultant group

VII. APPROXIMATE AMOUNT OF ASBESTOS REMOVED (SqFt):	Description of friable asbestos to be removed (i.e., TSI, aircell)	List Unit of measurements below (Rule 62.7.B.2.f requires pipe measurement in BOTH LnFt & SqFt UNITS		If demolition: Amount of nonfriable asbestos containing material subject to Rule 62.7.C:
Pipes	6000	LnFt: 6000	SqFt:	Category I: SqFt.
Surface area or volume	6000	SqFt: 6000	CuFt: 6000	Category II: SqFt

VIII. SCHEDULED REMOVAL DATES (mm/dd/yyyy):	Start: 1/1/2024	Complete: 12/31/2024
IX. SCHEDULED DEMO DATES (mm/dd/yyyy):	Start:	Complete:

VCAPCD Notification No. _____

Ventura County Air Pollution Control District

NOTIFICATION OF DEMOLITION OR RENOVATION (continued)

X. DESCRIPTION OF PLANNED DEMOLITION WORK, AND METHOD(s) TO BE USED: (Do not list South Coast Procedures.)

Equip and pipelagging insulation removal and disposal from Unit1,2 utilizing wet methods

XI. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION AND RENOVATION SITE: (Do not list South Coast Procedures.)

Wet gross removal within a NPE containments, glove bagging with general hand tools, he

XII. WASTE TRANSPORTER #1

NAME: MP Environmental Services		
ADDRESS: [No post office box numbers] 3400 Manor Street		
CITY: Bakersfield	STATE: CA.	ZIP: 93308
CONTACT: Amanda Little / Lauren Kaufman	TELEPHONE: 800-458-3036	

XIII. WASTE TRANSPORTER #2

NAME: N/A		
ADDRESS: [No post office box numbers]		
CITY:	STATE:	ZIP:
CONTACT:	TELEPHONE:	

XIV. WASTE DISPOAL SITE

NAME: Azusa Land Reclamation		
ADDRESS: 1211 West Gladstone		
CITY: Azusa	STATE: CA.	ZIP: 91702
CONTACT: Steve Amromin		TELEPHONE: 626-969-1384.Ext.47

XV. IF DEMOLITION ORDERED BY GOVERNMENTAL AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:

NAME:	TITLE:
AGENCY:	
DATE OF ORDER: [mm/dd/yyyy]	DATE ORDERED TO BEGIN: [mm/dd/yyyy]

XVI. FOR EMERGENCY RENOVATIONS [Attach additional sheets if necessary]

EMERGENCY DATE [mm/dd/yyyy]: TIME (am/pm):

DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT:

EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN TO PROPERTY OWNER:

XVII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER. [Attach additional sheets if necessary]

Stop Work, Assess Problem, Sample Materials, Report Findings Accordingly to Agency

XVIII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (RULE 62.7.B.2.n) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS.
NOTE: MISSING SIGNATURE WILL RESULT IN NOTIFICATION BEING RETURNED AS INCOMPLETE.

Richard Smith	Sign Here		12/18/2023
PRINT OWNER/OPERATOR NAME		SIGNATURE OF OWNER/OPERATOR	DATE

XIX. I CERTIFY THAT THE ABOVE INFOMRATION IS CORRECT.
NOTE: MISSING SIGNATURE WILL RESULT IN NOTIFICATION BEING RETURNED AS INCOMPLETE.

Richard Smith	Sign Here		12/18/2023
PRINT OWNER/OPERATOR NAME		SIGNATURE OF OWNER/OPERATOR	DATE

SUBMIT

Ventura County Air Pollution Control District

Asbestos Notification Form ENF-62
for Demolition or Renovation
Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor
Ventura, CA 93003
FAX: 805/456-7797

Asbestos NESHAP Fees

Demolition Projects without Asbestos:	
Notification Fee	$ 176.80
Demolition or Renovation Projects with Asbestos:	
Greater than or equal to 100 but less than 1,000 square feet of asbestos containing material (100 – 999 sqft)	$ 270.40
Greater than or equal to 1,000 but less than 5,000 square feet of asbestos containing material (1,000 – 4,999 sqft)	$ 644.80
Greater than or equal to 5,000 square feet of asbestos containing material (≥ 5,000 sqft)	$ 1014.00
Revisions:	
Any notification revision	$ 62.40

Payment shall be due prior to the commencement of asbestos removal per Rule 45.2.

NOTIFICATION SUBMITTAL: Original notifications and revisions may be submitted by email (PDF required), mail, or hand delivered. Email completed forms to asbestos@vcapcd.org (preferred). Notifications for non-residential renovation or demolition operations shall be typewritten and postmarked or delivered no later than 10 working days prior to commencement of demolition or renovation work. Notifications for residential renovation or demolition operations shall be typewritten and received by the District prior to commencement of demolition or renovation work.

FEE PAYMENT: Payment may be made online, check, or cash. Submit online payments here: https://www.govpaynow.com/gps/user/cyg/plc/a004cn

DEMOLITION: Notification and 10 working day wait required on all subject demolitions even if Asbestos Containing Material (ACM) is not present.

RENOVATION: A separate notification is required for each planned renovation operation involving 100 square feet or more of ACM except Category I nonfriable ACM that is removed in accordance with the requirements of Subsection E.2.a of Rule 62.7.

DEMOLITION: A separate notification is required for each planned demolition operation where any amount of ACM is present.

REVISIONS: Revisions are required if there are any changes to removal or demolition dates, amounts of asbestos present or removed, or to contractors, transporters, or disposal site. Each revision shall be assessed a fee of $62.40.

*Additional fees MAY apply to any project if significant APCD staff time is needed to determine compliance.For additional information, an Asbestos NESHAP Notification Form, or other Asbestos related issues, visit our website at http://www.vcapcd.org/asbestos.htm or call either VCAPCD Inspector Ken Hall at (805) 303-3709 or Kourtney Heald (805) 303-3709

allpaid

AllPaid
7820 Innovation Boulevard Suite 250
Indianapolis,IN 46278
24hr. Customer Service #: 888-604-7888

Asbestos Demolition/renovation Fees Payment Confirmation (Ref #: 40743312)

PLC: **Apcd** **Date:** 12/21/2023 13:25 EST
A004CN **4567 Telephone Rd 2nd Floor**
Ventura, California 93003
For: Asbestos Demolition/renovation Fees

TRANSACTION INFORMATION

Type Of Payment:	Abatement	**Transaction Reference #:**	40743312
Contact Name:	Richard Eugene Smith	**Transaction Date/Time:**	12/21/2023 13:25 EST
Contact Phone Number:	(707)373-3866		
Email Address:	Ricks@asrcindustrial.com		
Contractor:	D2 Industrial Services		
Project Address:	Genon Energy 6635 Edison Drive Oxnard, Ca 93033		
Project Start Date:	01/01/2024		
Asbestos Fee Amounts:	Abatement 5,000+ Sqft Acm = $1,014.00		

BILLING INFORMATION

Name:	Richard E Smith
Address:	2009 Gold Dust Drive
City, State Zip:	Lake Havasu, Az 86404
Phone #:	(707)373-3866
Card #:	xxxx-xxxx-xxxx-9643

PAYMENT INFORMATION

Approval #:	015776
Payment Amount:	$1014.00
Service Fee:	$27.89
Total Amount:	$1041.89

The service fee is not refundable.

ATTENTION CARDHOLDER
If you have questions about the processing of your payment, please call AllPaid at 888-604-7888.

Thank you for using AllPaid

Form #: EUR

The Ormond Beach Generating Station did not renovate more than 100 square feet of asbestos in association with the 2024 outage. Consequently, an ACM outage notification is not required pursuant to section B.1.a of the Ventura County Air Pollution Control District's Rule 62.7.

RELATIVE ACCURACY TEST AUDIT

TEST REPORT FOR
2024 EPA 40 CFR, PART 75 ANNUAL RELATIVE ACCURACY TEST AUDIT AT ORMOND BEACH POWER, LLC UNIT 1

Prepared For:

Ormond Beach Power, LLC
Ormond Beach Generating Station
6635 S. Edison Drive
Oxnard, California 93033

For Submittal To:

Ventura County Air Pollution Control District
4567 Telephone Road, 2nd Floor
Ventura, California 93003

Prepared By:

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

John Peterson

Test Date: **June 11, 2024**
Production Date: **July 15, 2024**
Report Number: **W002AS-041566-RT-6248**

MONTROSE AIR QUALITY SERVICES

STAC STACK TESTING ACCREDITATION COUNCIL

ACCREDITED TO ASTM D7036 ONLY CERT #3925.01

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.

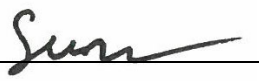
REVIEW AND CERTIFICATION

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: 7/15/2024

Name: John Peterson Title: District 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: 7/15/2024

Name: Surya Adhikari Title: Reporting/QC Specialist

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by Ormond Beach Power, LLC Ormond Beach) to perform the annual Relative Accuracy Test Audit (RATA) of the Continuous Emission Monitoring System (CEMS) serving Ormond Beach Unit 1. The test was performed to determine the Relative Accuracy for NO_x emissions on a pounds per million Btu basis and determine compliance with EPA 40 CFR, Part 75.

The test was performed on June 11, 2024. The test was conducted in accordance with the test plan Document Number W002AS-026975-PP-750 submitted to Ormond Beach on April 21, 2023. The MAQS test team consisted of John Peterson, Travis Maestri, and Patrick Rubio. John Peterson was the on-site Qualified Individual for MAQS. Roger Kahle and Sheila Reilly of Ormond Beach coordinated the test and documented unit and CEMS operation. Ed Swede of the Ventura County Air Pollution Control District was on-site to witness the test.

Air Emission Test Body and on-site Qualified Individual information is presented in Appendix D.

Nine sets of reference method tests were performed. Each reference method test consisted of independent measurements of flue gas O_2 and NO_x concentrations. All nine runs were used to calculate the NO_x emission rate in units of pounds per million Btu. The calculated values for each run were then compared to the corresponding Unit 1 CEMS data and the Relative Accuracy of the CEMS was calculated. The Relative Accuracy data set was also evaluated to determine the Bias Adjustment Factor (BAF). The results of the test are summarized in Table 1-1. Test results show the Unit 1 CEMS passed the RATA because the average difference between the reference method and the Unit 1 CEMS was 0.001 lb/MMBtu which meets the 0.02 lb/MMBtu criteria of EPA 40 CFR, Part 75 and also meets the annual incentive criteria of 0.015 lb/MMBtu. Therefore, the next RATA will be due on an annual basis.

TABLE 1-1
RESULTS SUMMARY
ORMOND BEACH GENERATING STATION
UNIT 1
JUNE 11, 2024

Parameter	Results	Limit
Relative Accuracy	-0.001 lb/MMBtu	10% or +/-0.020 lb/MMBtu absolute difference
Bias Adjustment Factor	1.000	N/A
Next RATA	Annual	N/A

Section 2.0 of this report provides a description of the process tested and the test conditions under which it was operating while the test was performed. Section 3.0 describes the test methodology. Section 4.0 contains more detailed results including data for each test run.

2.0 UNIT DESCRIPTION AND TEST CONDITIONS

2.1 UNIT DESCRIPTION

Unit 1 at the Ormond Beach Generating Station consists of a utility boiler and steam turbine generator. The boiler and generator have a full load rating of 750 megawatts. The boiler fires natural gas exclusively. The unit is equipped with a Selective Catalytic Reduction (SCR) system for NO_x control.

2.2 TEST CONDITIONS

The tests were performed while the unit was firing natural gas and operating under normal conditions. The unit was operating at an average load of 261.0 gross megawatts, (35% of full load).

2.3 SAMPLE LOCATION

The reference method measurements were made from one of the four, equally spaced, sample ports located on the exhaust stack. The stack inside diameter at this location is approximately 32 feet. The sample ports are located greater than 2.0 diameters downstream of the nearest flow disturbance and greater than 0.5 diameters upstream of the nearest flow disturbance. The location of individual sampling traverse points is defined in Appendix A.1.

2.4 CEMS DESCRIPTION

The extractive CEMS installed on this unit is designed to determine emissions-related information including stack gas volumetric flow rate and NO_x mass emission rates. This system directly extracts a stack gas sample, then continuously measures NO_x and O_2 concentrations. The system is equipped with a dual range NO_x analyzer (Component/System ID # = 011/101) and a single range O_2 analyzer (Component/System ID # = 012/101). The make, model, serial number, and range of the analyzers are summarized in Table 2-1.

TABLE 2-1
ANALYZER SPECIFICATIONS
ORMOND BEACH GENERATING STATION
UNIT 1

Component	Manufacturer	Model	Serial Number	Range(s)
NO_x Analyzer	TECO	42CHL	42 CHL-66196-351	0-10/250 ppm
O_2 Analyzer	Thermox	2000	10202872	0-20%

Sample gases are extracted through a probe assembly and transported through heated Teflon sample tubes to the analyzer enclosure. The analyzer cabinet houses the components of the sample control, conditioning system, and the analyzers. Control signals (calibration, sample, etc.) are generated by the data logger.

The analyzer signals are transmitted to the data logger where 40 CFR Part 75 calculations are performed. These calculated results are stored in the DAS computer. The CEMS calculates the NO_x emission rate (lb/MMBtu) from the measured NO_x and O_2 concentrations and fuel F-Factor using the following equation:

$$M = ppm * F * 1.194 * 10^{-7} * \frac{20.9}{20.9 - \%O_2}$$

Where:

M = NO_x emission rate (lb/MMBtu)
ppm = NO_x concentration (ppmv, dry)
F = EPA Method 19 F-Factor (dscf/MMBtu)
% O_2 = O_2 concentration (%, dry)

3.0 TEST DESCRIPTION

Nine sets of reference method measurements were performed with the sample times synchronized with the CEMS. Each set of tests consisted of independent measurements of NO_x and O_2 concentrations and calculation of the NO_x emission rate (lb/MMBtu) using EPA Method 19. The CEMS data from the same intervals were then compared to the reference method results and the Relative Accuracy was calculated according to the following equation:

$$RA = \frac{|\overline{d}| + |CC|}{\overline{RM}} \times 100\%$$

Where:

RA = relative accuracy

$|\overline{d}|$ = Absolute value of the difference between RM and CEMS (RM - CEMS)

$|CC|$ = confidence coefficient of the difference between RM and CEMS

$\overline{RM}$ = mean value of the reference method

$$CC = \frac{t_{value} * \text{Std. Dev.}}{\sqrt{n}}$$

Where:

t_{value} = statistical function of number of tests

Std. Dev. = sample standard deviation of the difference between RM and CEMS

n = number of valid tests

In addition to determining the relative accuracy of the CEMS, the test data were used to determine the Bias Adjustment Factor (BAF) which is be applied to the CEMS data. If the mean difference (RM - CEMS) is less than the confidence coefficient, the BAF is 1.000. If the mean difference (RM - CEMS) is greater than the confidence coefficient, then a BAF is generated using the following equation:

$$BAF = 1 + \frac{|\overline{d}|}{CEMS}$$

3.1 REFERENCE METHODS

NO_x and O_2 concentrations were measured according to the procedures described in EPA methods 7E and 3A, respectively. A three-point traverse was performed during each test run. The traverse points were selected according to EPA 40 CFR, Part 60, Appendix B, Performance Specification 2. The measured concentrations were averaged over the sampling period and then corrected for system bias and analyzer drift. Copies of the reference method DAS data, strip charts, raw data, and quality assurance data are presented in Appendix A. Facility CEMS data is presented in Appendix B, and calculations are presented in Appendix C.

One of MAQS' mobile emission measurement laboratories was used for the performance of O_2 and NO_x measurements. The laboratory is outfitted to provide a clean, quiet, environmentally controlled base for the testing operations. The laboratory has lighting, electrical distribution, air conditioning and heating to support the test instruments and provide for optimal test performance.

NO_x and O_2 concentrations are measured using an extractive sampling system consisting of a heated probe, a heat traced Teflon sample line connected to a thermo-electrically cooled sample dryer. Following the dryer, the sample is drawn into a Teflon lined pump where it is pressurized and then filtered for delivery to the gas analysis portion of the system.

NO_x concentration is determined using a CAI chemiluminescence analyzer (model #600). The analyzer was operated on a 0-10 ppm range during the test. The analyzer is equipped with a carbon NO_2 - NO converter for the determination of total nitrogen oxides without interference from other nitrogen containing compounds.

Oxygen concentration is determined using a CAI electro-chemical cell analyzer (model #600). The analyzer was operated on a 0-10% range during the test. The cell contains an electrolytic fluid that reacts with oxygen to generate an electrical signal proportional to the concentration.

The analyzers and sampling system are subjected to a variety of calibration and quality assurance procedures including leak checks, linearity and calibration error determinations before sampling, and system bias and drift determinations as part of each test run. Data are corrected for any observed bias or drift in accordance with the reference methods.

TABLE 3-1
MEASUREMENT PROCEDURES

Parameter	Test Method	Measurement Principle	Comments
O_2	EPA 3A	Electro-chemical Cell	3-point traverse
NO_x	EPA 7E	Chemiluminescence	3-point traverse

3.2 CEMS DATA

The CEMS data were collected from the data logger by printing the one-minute average data over each test interval. The data logger report provides the average of the one-minute averages over each test interval for comparison to the reference method.

4.0 TEST RESULTS AND OVERVIEW

4.1 TEST RESULTS

The results of the NO_x emission rate Relative Accuracy test audit are summarized in Table 4-1. The table shows that NO_x emissions were less than 0.20 lb/MMBtu which qualifies for low emitter status. The relative accuracy average difference between the reference method and CEMS was -0.001 lb/MMBtu which meets the 0.020 lb/MMBtu criteria of EPA 40 CFR, Part 75 and also meets the annual incentive criteria of < 0.015 lb/MMBtu.

TABLE 4-1
NO_x LB/MMBTU RELATIVE ACCURACY TEST RESULTS
ORMOND BEACH GENERATING STATION
UNIT 1

Station: Ormond Beach
Unit: 1
Date: 6/11/2024
Parameter: NO_x
Units: lb/MMBtu
Performed By: JP/PR/TM/AE

		Time		RM	CEMS	Difference	Valid Run
Test #	Date	Start	Stop	NO_x lb/MMBtu	NO_x lb/MMBtu	NO_x lb/MMBtu	(1=Yes, 0=No)
1	6/11/2024	13:38	14:02	0.008	0.008	0.000	1
2	6/11/2024	14:13	14:40	0.007	0.008	-0.001	1
3	6/11/2024	14:50	15:11	0.007	0.008	-0.001	1
4	6/11/2024	15:19	15:40	0.007	0.008	-0.001	1
5	6/11/2024	15:54	16:15	0.008	0.008	0.000	1
6	6/11/2024	16:23	16:44	0.007	0.008	-0.001	1
7	6/11/2024	16:56	17:17	0.007	0.008	-0.001	1
8	6/11/2024	17:23	17:44	0.008	0.008	0.000	1
9	6/11/2024	17:50	18:11	0.008	0.008	0.000	1
Average				**0.007**	**0.008**	**-0.001**	**--**

Reference Method Average:	0.007	lb/MMBtu
Average Difference:	-0.001	lb/MMBtu
Number of Tests:	9	
Standard Deviation:	0.001	lb/MMBtu
t Value:	2.306	
Confidence Coefficient:	0.000	lb/MMBtu
Relative Accuracy:	12.9	%
Bias Adjustment Factor:	1.000	
Test Condition:	261	MW

(1) Since d < CC, the system passes the bias test.
(2) Average difference is less than 0.020 lb/MMBtu - CEMS passes the RATA per the low emitter criteria.
(3) Average difference is less than 0.015 lb/MMBtu - CEMS meets the annual incentive per the low emitter criteria.

4.2 TEST OVERVIEW

The test program was successful in meeting the program objectives. All nine runs were included in the Relative Accuracy calculations. Raw data from all nine runs can be found in appendix A.

APPENDIX A
TEST DATA

Appendix A.1
Sample Location Data

Montrose Air Quality Services, LLC

Sample Point Location Data
EPA Method 1

MONTROSE

Location: Ormond Beach
Unit: 1

Date: 6/11/2024
By: JP/PR/TM/AE

Stack Area (ft^2): 804.2
Stack Diameter (in.): 384.0
Coupling Length (in.): 12

Downstream Disturbances > 2.0 diameters
Upstream Disturbances: > 0.5 diameters

	CEMS Sample Points (Long Line)			CEMS Sample Points (Short Line)		
Point	% of Duct	Inches from Wall[(1)]	Inches from Nozzle	% of Duct	Inches from Wall[(1)]	Inches from Nozzle
1	16.7	64.1	76.1	n/a	15.7	27.7
2	50	192.0	204.0	n/a	47.2	59.2
3	83.3	319.9	331.9	n/a	78.7	90.7

(1) From 40 CFR Part 60 Appendix B

Appendix A.2
Reference Method Data Logger Data

Montrose Air Quality Services, LLC

RUN NUMBER 1 RM DAS

MONTROSE

RM 1-MINUTE AVERAGE DATA RUN NUMBER 1				
Date	Time	O_2	NO_x	CO
6/11/2024	1:39:00 PM	4.034	6.114	
6/11/2024	1:40:00 PM	4.108	6.018	
6/11/2024	1:41:00 PM	3.985	6.67	
6/11/2024	1:42:00 PM	4.106	6.258	
6/11/2024	1:43:00 PM	4.106	5.445	
6/11/2024	1:44:00 PM	4.12	6.561	
6/11/2024	1:45:00 PM	4.146	7.37	
6/11/2024	1:46:00 PM	4.061	5.702	
6/11/2024	1:47:00 PM	3.971	4.679	
6/11/2024	1:48:00 PM	4.241	5.822	
6/11/2024	1:49:00 PM	4.225	6.675	
6/11/2024	1:50:00 PM	4.256	5.572	
6/11/2024	1:51:00 PM	4.3	5.027	
6/11/2024	1:52:00 PM	4.223	5.905	
6/11/2024	1:56:00 PM	4.178	8.335	
6/11/2024	1:57:00 PM	4.105	6.728	
6/11/2024	1:58:00 PM	4.107	5.749	
6/11/2024	1:59:00 PM	4.071	6.794	
6/11/2024	2:00:00 PM	4.113	7.964	
6/11/2024	2:01:00 PM	4.14	7.217	
6/11/2024	2:02:00 PM	4.149	6.013	
	Average	4.13	6.32	#DIV/0!

Pt 1 Avg.	4.086	6.348	
Pt 2 Avg.	4.182	5.626	
Pt 3 Avg.	4.123	6.971	

RM 1-MINUTE AVERAGE DATA RUN NUMBER 2				
Date	Time	O2	NOx	CO
6/11/2024	2:14:00 PM	4.181	5.615	
6/11/2024	2:15:00 PM	4.15	5.229	
6/11/2024	2:16:00 PM	4.16	5.802	
6/11/2024	2:17:00 PM	4.234	6.422	
6/11/2024	2:18:00 PM	4.124	6.032	
6/11/2024	2:19:00 PM	4.041	5.405	
6/11/2024	2:20:00 PM	4.085	5.474	
6/11/2024	2:21:00 PM	4.142	6.429	
6/11/2024	2:22:00 PM	4.034	6.031	
6/11/2024	2:23:00 PM	4.04	5.217	
6/11/2024	2:24:00 PM	4.327	5.476	
6/11/2024	2:25:00 PM	4.202	6.71	
6/11/2024	2:26:00 PM	4.054	5.953	
6/11/2024	2:27:00 PM	4.115	5.056	
6/11/2024	2:34:00 PM	4.037	6.004	
6/11/2024	2:35:00 PM	4.089	5.761	
6/11/2024	2:36:00 PM	3.996	5.446	
6/11/2024	2:37:00 PM	4.103	5.579	
6/11/2024	2:38:00 PM	4.134	5.971	
6/11/2024	2:39:00 PM	4.182	5.947	
6/11/2024	2:40:00 PM	4.132	5.645	
	Average	4.12	5.77	

Pt 1 Avg.	4.139	5.711
Pt 2 Avg.	4.131	5.839
Pt 3 Avg.	4.096	5.765

RM 1-MINUTE AVERAGE DATA RUN NUMBER 3				
Date	Time	O2	NOx	CO
6/11/2024	2:51:00 PM	4.083	6.192	
6/11/2024	2:52:00 PM	4.054	5.593	
6/11/2024	2:53:00 PM	4.114	5.448	
6/11/2024	2:54:00 PM	4.12	5.84	
6/11/2024	2:55:00 PM	4.115	6.088	
6/11/2024	2:56:00 PM	4.08	5.884	
6/11/2024	2:57:00 PM	4.041	5.655	
6/11/2024	2:58:00 PM	4.097	5.605	
6/11/2024	2:59:00 PM	4.106	5.984	
6/11/2024	3:00:00 PM	4.063	5.695	
6/11/2024	3:01:00 PM	4.042	5.496	
6/11/2024	3:02:00 PM	4.234	6.343	
6/11/2024	3:03:00 PM	3.99	6.258	
6/11/2024	3:04:00 PM	4.141	5.448	
6/11/2024	3:05:00 PM	4.05	5.425	
6/11/2024	3:06:00 PM	4.03	5.667	
6/11/2024	3:07:00 PM	4.022	5.673	
6/11/2024	3:08:00 PM	4.021	5.548	
6/11/2024	3:09:00 PM	4.052	5.831	
6/11/2024	3:10:00 PM	4.259	6.252	
6/11/2024	3:11:00 PM	4.117	6.478	
	Average	4.09	5.83	

Pt 1 Avg.		4.087	5.814
Pt 2 Avg.		4.096	5.833
Pt 3 Avg.		4.079	5.839

RM 1-MINUTE AVERAGE DATA RUN NUMBER 4				
Date	Time	O2	NOx	CO
6/11/2024	3:20:00 PM	4.169	5.803	101.92
6/11/2024	3:21:00 PM	4.251	5.633	57.094
6/11/2024	3:22:00 PM	4.198	5.977	66.073
6/11/2024	3:23:00 PM	4.163	5.884	78.782
6/11/2024	3:24:00 PM	4.266	5.964	64.941
6/11/2024	3:25:00 PM	4.174	5.705	137.17
6/11/2024	3:26:00 PM	4.237	5.782	56.553
6/11/2024	3:27:00 PM	4.169	5.787	85.429
6/11/2024	3:28:00 PM	4.153	5.91	87.202
6/11/2024	3:29:00 PM	4.17	5.969	72.434
6/11/2024	3:30:00 PM	4.18	6.108	44.09
6/11/2024	3:31:00 PM	4.197	6.06	35.094
6/11/2024	3:32:00 PM	4.101	5.706	57.817
6/11/2024	3:33:00 PM	4.175	5.63	44.618
6/11/2024	3:34:00 PM	4.203	5.698	25.658
6/11/2024	3:35:00 PM	4.139	5.794	44.096
6/11/2024	3:36:00 PM	4.139	5.844	80.088
6/11/2024	3:37:00 PM	4.209	5.869	52.084
6/11/2024	3:38:00 PM	4.288	5.868	26.255
6/11/2024	3:39:00 PM	4.213	5.748	72.975
6/11/2024	3:40:00 PM	4.16	5.637	108.5
	Average	4.19	5.83	66.61

Pt 1 Avg.	4.208	5.821	80.362
Pt 2 Avg.	4.164	5.881	60.955
Pt 3 Avg.	4.193	5.780	58.522

RM 1-MINUTE AVERAGE DATA RUN NUMBER 5				
Date	Time	O2	NOx	CO
6/11/2024	3:55:00 PM	4.162	5.902	105.92
6/11/2024	3:56:00 PM	4.122	6.024	164.22
6/11/2024	3:57:00 PM	4.147	5.951	108.02
6/11/2024	3:58:00 PM	4.232	6.067	96.101
6/11/2024	3:59:00 PM	4.275	6.12	62.593
6/11/2024	4:00:00 PM	4.242	5.731	114.43
6/11/2024	4:01:00 PM	4.256	5.809	111.29
6/11/2024	4:02:00 PM	4.219	5.968	171.09
6/11/2024	4:03:00 PM	4.078	6.022	116.12
6/11/2024	4:04:00 PM	4.095	5.889	79.685
6/11/2024	4:05:00 PM	4.265	5.876	35.305
6/11/2024	4:06:00 PM	4.153	5.77	147.37
6/11/2024	4:07:00 PM	4.144	5.797	84.305
6/11/2024	4:08:00 PM	4.062	5.957	161.38
6/11/2024	4:09:00 PM	4.103	5.97	87.282
6/11/2024	4:10:00 PM	4.065	5.91	97.709
6/11/2024	4:11:00 PM	4.136	5.947	84.377
6/11/2024	4:12:00 PM	4.139	5.948	85.751
6/11/2024	4:13:00 PM	4.097	5.828	109.52
6/11/2024	4:14:00 PM	4.205	5.809	80.872
6/11/2024	4:15:00 PM	4.17	5.977	73.65
	Average	4.16	5.92	103.67

Pt 1 Avg.	4.205	5.943	108.937
Pt 2 Avg.	4.145	5.897	113.608
Pt 3 Avg.	4.131	5.913	88.451

Montrose Air Quality Services, LLC

RUN NUMBER 6 RM DAS

RM 1-MINUTE AVERAGE DATA RUN NUMBER 6				
Date	Time	O2	NOx	CO
6/11/2024	4:24:00 PM	4.21	6.046	85.995
6/11/2024	4:25:00 PM	4.213	6.153	95.303
6/11/2024	4:26:00 PM	4.1	5.865	150.98
6/11/2024	4:27:00 PM	4.12	5.703	145.81
6/11/2024	4:28:00 PM	4.298	5.973	121.86
6/11/2024	4:29:00 PM	4.233	6.261	79.442
6/11/2024	4:30:00 PM	4.246	5.971	112.06
6/11/2024	4:31:00 PM	4.185	5.69	123.91
6/11/2024	4:32:00 PM	4.181	5.811	81.675
6/11/2024	4:33:00 PM	4.134	5.821	99.733
6/11/2024	4:34:00 PM	4.102	5.928	141.13
6/11/2024	4:35:00 PM	4.112	5.953	101.62
6/11/2024	4:36:00 PM	4.268	6.077	36.467
6/11/2024	4:37:00 PM	4.199	5.959	88.475
6/11/2024	4:38:00 PM	4.202	5.775	84.131
6/11/2024	4:39:00 PM	4.139	5.736	121.9
6/11/2024	4:40:00 PM	4.215	5.844	58.437
6/11/2024	4:41:00 PM	4.148	5.993	68.694
6/11/2024	4:42:00 PM	4.16	5.762	85.22
6/11/2024	4:43:00 PM	4.123	5.636	177.92
6/11/2024	4:44:00 PM	4.197	5.77	112.65
	Average	4.18	5.89	103.50

Pt 1 Avg.	4.203	5.996	113.065
Pt 2 Avg.	4.169	5.891	96.144
Pt 3 Avg.	4.169	5.788	101.279

RM 1-MINUTE AVERAGE DATA RUN NUMBER 7			
Date	Time	O2	NOx
6/11/2024	4:57:00 PM	4.242	5.945
6/11/2024	4:58:00 PM	4.189	5.937
6/11/2024	4:59:00 PM	4.378	6.158
6/11/2024	5:00:00 PM	4.234	5.734
6/11/2024	5:01:00 PM	4.331	5.538
6/11/2024	5:02:00 PM	4.329	5.922
6/11/2024	5:03:00 PM	4.309	6.134
6/11/2024	5:04:00 PM	4.185	6.06
6/11/2024	5:05:00 PM	4.146	5.918
6/11/2024	5:06:00 PM	4.072	5.961
6/11/2024	5:07:00 PM	4.311	5.906
6/11/2024	5:08:00 PM	4.177	5.918
6/11/2024	5:09:00 PM	4.267	5.951
6/11/2024	5:10:00 PM	4.232	5.667
6/11/2024	5:11:00 PM	4.177	5.621
6/11/2024	5:12:00 PM	4.175	5.779
6/11/2024	5:13:00 PM	4.289	6.138
6/11/2024	5:14:00 PM	4.284	5.928
6/11/2024	5:15:00 PM	4.156	5.681
6/11/2024	5:16:00 PM	4.072	5.622
6/11/2024	5:17:00 PM	4.173	5.701
	Average	4.23	5.87

Pt 1 Avg.	4.287	5.910
Pt 2 Avg.	4.199	5.912
Pt 3 Avg.	4.189	5.781

Montrose Air Quality Services, LLC

RUN NUMBER 8 RM DAS

MONTROSE

RM 1-MINUTE AVERAGE DATA RUN NUMBER 8			
Date	Time	O2	NOx
6/11/2024	5:24:00 PM	4.202	6.034
6/11/2024	5:25:00 PM	4.175	6.088
6/11/2024	5:26:00 PM	4.202	5.969
6/11/2024	5:27:00 PM	4.222	6.074
6/11/2024	5:28:00 PM	4.298	5.981
6/11/2024	5:29:00 PM	4.257	5.897
6/11/2024	5:30:00 PM	4.198	5.967
6/11/2024	5:31:00 PM	4.28	6.046
6/11/2024	5:32:00 PM	4.278	6.061
6/11/2024	5:33:00 PM	4.137	5.912
6/11/2024	5:34:00 PM	4.157	5.695
6/11/2024	5:35:00 PM	4.044	5.663
6/11/2024	5:36:00 PM	4.159	5.81
6/11/2024	5:37:00 PM	4.174	6.059
6/11/2024	5:38:00 PM	4.238	6.007
6/11/2024	5:39:00 PM	4.108	5.928
6/11/2024	5:40:00 PM	4.191	5.754
6/11/2024	5:41:00 PM	4.188	5.763
6/11/2024	5:42:00 PM	4.184	5.712
6/11/2024	5:43:00 PM	4.303	5.743
6/11/2024	5:44:00 PM	4.131	5.943
	Average	4.20	5.91

Pt 1 Avg.	4.222	6.001
Pt 2 Avg.	4.176	5.892
Pt 3 Avg.	4.192	5.836

Montrose Air Quality Services, LLC

RUN NUMBER 9 RM DAS

RM 1-MINUTE AVERAGE DATA RUN NUMBER 9			
Date	Time	O2	NOx
6/11/2024	5:51:00 PM	4.203	6.092
6/11/2024	5:52:00 PM	4.219	5.818
6/11/2024	5:53:00 PM	4.167	5.786
6/11/2024	5:54:00 PM	4.247	5.96
6/11/2024	5:55:00 PM	4.244	6.237
6/11/2024	5:56:00 PM	4.246	5.965
6/11/2024	5:57:00 PM	4.147	5.728
6/11/2024	5:58:00 PM	4.163	5.508
6/11/2024	5:59:00 PM	4.175	5.821
6/11/2024	6:00:00 PM	4.201	6.279
6/11/2024	6:01:00 PM	4.28	6.257
6/11/2024	6:02:00 PM	4.182	5.837
6/11/2024	6:03:00 PM	4.23	5.75
6/11/2024	6:04:00 PM	4.268	5.897
6/11/2024	6:05:00 PM	4.199	6.238
6/11/2024	6:06:00 PM	4.091	5.921
6/11/2024	6:07:00 PM	4.115	5.732
6/11/2024	6:08:00 PM	4.155	5.669
6/11/2024	6:09:00 PM	4.071	5.561
6/11/2024	6:10:00 PM	4.115	5.58
6/11/2024	6:11:00 PM	4.108	5.77
	Average	4.18	5.88

Pt 1 Avg.	4.210	5.941
Pt 2 Avg.	4.214	5.907
Pt 3 Avg.	4.122	5.782

Montrose Air Quality Services, LLC

MONTROSE

Reference Method DAS

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	12:32:00	-0.001	-0.002	-0.777	
6/11/2024	12:33:00	5.575	1.358	26.928	
6/11/2024	12:34:00	9.116	6.648	188.607	
6/11/2024	12:35:00	9.145	7.92	201.77	
6/11/2024	12:36:00	9.129	8.37	201.684	
6/11/2024	12:37:00	9.13	8.507	237.089	
6/11/2024	12:38:00	9.127	8.531	210.707	
6/11/2024	12:39:00	9.144	8.455	39.432	
6/11/2024	12:40:00	8.399	8.445	47.407	
6/11/2024	12:41:00	4.091	8.454	19.118	
6/11/2024	12:42:00	5.825	8.463	630.34	
6/11/2024	12:43:00	3.741	8.473	459.16	
6/11/2024	12:44:00	3.462	8.367	339.004	
6/11/2024	12:45:00	3.075	7.473	20.247	
6/11/2024	12:46:00	0.272	8.505	22.829	
6/11/2024	12:47:00	0.18	8.499	17.891	
6/11/2024	12:48:00	-0.011	8.508	1.593	
6/11/2024	12:49:00	5.366	8.513	143.236	
6/11/2024	12:50:00	8.873	8.527	241.391	
6/11/2024	12:51:00	8.372	8.539	235.864	
6/11/2024	12:52:00	9.177	8.539	211.807	
6/11/2024	12:53:00	9.142	8.539	69.334	Direct High
6/11/2024	12:54:00	1.433	2.825	0.578	
6/11/2024	12:55:00	0.045	0.014	1.845	
6/11/2024	12:56:00	0.042	0.014	1.33	Direct Zero
6/11/2024	12:57:00	4.087	3.478	82.37	
6/11/2024	12:58:00	4.585	4.602	41.754	
6/11/2024	12:59:00	4.587	4.601	2.544	Direct Mid
6/11/2024	13:00:00	5.257	4.87	-0.571	
6/11/2024	13:01:00	10.771	6.798	8.316	Direct NO2
6/11/2024	13:02:00	6.025	6.812	519.795	
6/11/2024	13:03:00	1.314	1.467	-685.007	
6/11/2024	13:04:00	3.567	0.064	15.035	
6/11/2024	13:05:00	5.554	0.033	0.762	
6/11/2024	13:06:00	10.617	0.026	-23.247	
6/11/2024	13:07:00	1.155	0.015	4.262	
6/11/2024	13:08:00	2.557	0.009	-6.369	
6/11/2024	13:09:00	5.902	0.018	51.693	
6/11/2024	13:10:00	10.769	0.029	226.897	
6/11/2024	13:11:00	10.769	0.016	228.236	
6/11/2024	13:12:00	10.769	0.026	228.239	
6/11/2024	13:13:00	10.769	0.008	32.451	
6/11/2024	13:14:00	10.769	0.017	0.03	Direct Zero CO
6/11/2024	13:15:00	10.769	0.02	196.914	
6/11/2024	13:16:00	10.769	0.018	228.22	
6/11/2024	13:17:00	10.769	0.024	228.203	Direct High CO

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	13:17:00	10.769	0.024	228.203	Direct High CO
6/11/2024	13:18:00	10.769	0.018	125.113	
6/11/2024	13:19:00	10.769	0.019	110.74	Direct Mid CO
6/11/2024	13:20:00	6.791	0.011	45.339	
6/11/2024	13:21:00	4.624	0.007	0.374	Sys O2
6/11/2024	13:22:00	1.964	1.96	-0.811	
6/11/2024	13:23:00	0.062	4.526	-1.532	Sys NOx
6/11/2024	13:24:00	0.06	2.945	48.538	
6/11/2024	13:25:00	0.062	0.017	109.129	Sys CO
6/11/2024	13:26:00	1.158	0.012	104.254	
6/11/2024	13:27:00	10.769	0.009	0.229	
6/11/2024	13:28:00	10.769	0.006	-0.844	
6/11/2024	13:29:00	10.669	0.015	0.654	
6/11/2024	13:30:00	4.268	5.504	108.616	
6/11/2024	13:31:00	4.322	6.543	82.387	
6/11/2024	13:32:00	4.257	6.761	95.916	
6/11/2024	13:33:00	4.218	6.633	90.632	
6/11/2024	13:34:00	4.243	7.007	71.031	
6/11/2024	13:35:00	4.203	6.782	79.705	
6/11/2024	13:36:00	4.14	6.414	72.379	
6/11/2024	13:37:00	4.057	6.186	102.951	
6/11/2024	13:38:00	4.103	6.548	68.403	Run 1 / Strat Check
6/11/2024	13:39:00	4.034	6.114	104.376	
6/11/2024	13:40:00	4.108	6.018	86.454	
6/11/2024	13:41:00	3.985	6.67	129.902	
6/11/2024	13:42:00	4.106	6.258	85.04	
6/11/2024	13:43:00	4.106	5.445	97.231	
6/11/2024	13:44:00	4.12	6.561	94.704	
6/11/2024	13:45:00	4.146	7.37	49.66	Pt 2
6/11/2024	13:46:00	4.061	5.702	36.907	
6/11/2024	13:47:00	3.971	4.679	75.683	
6/11/2024	13:48:00	4.241	5.822	68.122	
6/11/2024	13:49:00	4.225	6.675	95.258	
6/11/2024	13:50:00	4.256	5.572	129.592	
6/11/2024	13:51:00	4.3	5.027	75.552	
6/11/2024	13:52:00	4.223	5.905	133.503	Pt 1
6/11/2024	13:53:00	5.473	6.059	94.862	
6/11/2024	13:54:00	10.774	0.14	-3.948	
6/11/2024	13:55:00	4.962	5.684	10.039	
6/11/2024	13:56:00	4.178	8.335	59.021	
6/11/2024	13:57:00	4.105	6.728	83.395	
6/11/2024	13:58:00	4.107	5.749	62.79	
6/11/2024	13:59:00	4.071	6.794	67.742	
6/11/2024	14:00:00	4.113	7.964	91.545	
6/11/2024	14:01:00	4.14	7.217	72.14	
6/11/2024	14:02:00	4.149	6.013	75.346	Pt 3
6/11/2024	14:03:00	4.167	6.479	54.638	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	14:04:00	9.966	2.164	11.308	
6/11/2024	14:05:00	10.773	0.03	-4.995	
6/11/2024	14:06:00	5.498	0.025	4.553	
6/11/2024	14:07:00	4.534	0.017	-3.068	Sys O2
6/11/2024	14:08:00	2.922	1.033	-3.768	
6/11/2024	14:09:00	0.044	4.544	-6.045	Sys NOx
6/11/2024	14:10:00	0.049	4.03	18.305	
6/11/2024	14:11:00	0.006	0.071	106.703	
6/11/2024	14:12:00	0.015	0.019	106.871	Sys CO 1411
6/11/2024	14:13:00	3.448	4.424	127.565	
6/11/2024	14:14:00	4.181	5.615	37.887	Run 2
6/11/2024	14:15:00	4.15	5.229	101.839	
6/11/2024	14:16:00	4.16	5.802	123.2	
6/11/2024	14:17:00	4.234	6.422	96.697	
6/11/2024	14:18:00	4.124	6.032	126.809	
6/11/2024	14:19:00	4.041	5.405	138.982	
6/11/2024	14:20:00	4.085	5.474	175.295	Pt 3
6/11/2024	14:21:00	4.142	6.429	114.574	
6/11/2024	14:22:00	4.034	6.031	164.29	
6/11/2024	14:23:00	4.04	5.217	148.155	
6/11/2024	14:24:00	4.327	5.476	26.027	
6/11/2024	14:25:00	4.202	6.71	46.245	
6/11/2024	14:26:00	4.054	5.953	189.297	
6/11/2024	14:27:00	4.115	5.056	141.487	Pt 2
6/11/2024	14:28:00	4.094	5.216	157.75	
6/11/2024	14:29:00	4.665	5.757	124.192	
6/11/2024	14:30:00	5.729	5.647	86.105	
6/11/2024	14:31:00	5.978	4.865	126.272	
6/11/2024	14:32:00	6.019	4.698	-5.462	
6/11/2024	14:33:00	5.201	5.175	-2.234	
6/11/2024	14:34:00	4.037	6.004	-0.006	
6/11/2024	14:35:00	4.089	5.761	184.774	
6/11/2024	14:36:00	3.996	5.446	448.254	
6/11/2024	14:37:00	4.103	5.579	448.758	
6/11/2024	14:38:00	4.134	5.971	448.19	
6/11/2024	14:39:00	4.182	5.947	447.358	
6/11/2024	14:40:00	4.132	5.645	447.315	Pt 1
6/11/2024	14:41:00	3.986	3.898	278.734	
6/11/2024	14:42:00	4.575	0.039	-0.275	
6/11/2024	14:43:00	4.542	0.03	-0.308	Sys O2 / Direct CO Zero
6/11/2024	14:44:00	4.434	0.777	21.375	
6/11/2024	14:45:00	0.232	4.272	447.637	
6/11/2024	14:46:00	0.012	4.558	451.331	Sys NOx / Direct High CO
6/11/2024	14:47:00	1.781	4.95	256.143	
6/11/2024	14:48:00	4.095	5.616	232.17	Direct Mid CO
6/11/2024	14:49:00	4.074	5.742	118.849	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	14:50:00	4.092	6.147	61.988	
6/11/2024	14:51:00	4.083	6.192	48.217	Run 3
6/11/2024	14:52:00	4.054	5.593	83.744	
6/11/2024	14:53:00	4.114	5.448	75.408	
6/11/2024	14:54:00	4.12	5.84	59.275	
6/11/2024	14:55:00	4.115	6.088	66.419	
6/11/2024	14:56:00	4.08	5.884	95.257	
6/11/2024	14:57:00	4.041	5.655	111.78	Pt 3
6/11/2024	14:58:00	4.097	5.605	86.551	
6/11/2024	14:59:00	4.106	5.984	87.48	
6/11/2024	15:00:00	4.063	5.695	110.609	
6/11/2024	15:01:00	4.042	5.496	136.426	
6/11/2024	15:02:00	4.234	6.343	28.765	
6/11/2024	15:03:00	3.99	6.258	104.124	
6/11/2024	15:04:00	4.141	5.448	85.876	Pt 2
6/11/2024	15:05:00	4.05	5.425	88.282	
6/11/2024	15:06:00	4.03	5.667	136.56	
6/11/2024	15:07:00	4.022	5.673	212.167	
6/11/2024	15:08:00	4.021	5.548	192.17	
6/11/2024	15:09:00	4.052	5.831	136.912	
6/11/2024	15:10:00	4.259	6.252	67.82	
6/11/2024	15:11:00	4.117	6.478	149.315	Pt 1
6/11/2024	15:12:00	3.86	4.988	149.895	
6/11/2024	15:13:00	4.622	0.099	0.315	
6/11/2024	15:14:00	4.628	0.025	0.005	Sys O2
6/11/2024	15:15:00	1.834	2.084	-0.739	
6/11/2024	15:16:00	0.037	4.569	-1.601	Sys NOx
6/11/2024	15:17:00	0.031	2.503	120.614	
6/11/2024	15:18:00	0.02	0.037	229.274	Sys CO
6/11/2024	15:19:00	2.379	2.615	146.078	
6/11/2024	15:20:00	4.169	5.803	101.921	
6/11/2024	15:21:00	4.251	5.633	57.094	Run 4
6/11/2024	15:22:00	4.198	5.977	66.073	
6/11/2024	15:23:00	4.163	5.884	78.782	
6/11/2024	15:24:00	4.266	5.964	64.941	
6/11/2024	15:25:00	4.174	5.705	137.171	
6/11/2024	15:26:00	4.237	5.782	56.553	
6/11/2024	15:27:00	4.169	5.787	85.429	Pt 3
6/11/2024	15:28:00	4.153	5.91	87.202	
6/11/2024	15:29:00	4.17	5.969	72.434	
6/11/2024	15:30:00	4.18	6.108	44.09	
6/11/2024	15:31:00	4.197	6.06	35.094	
6/11/2024	15:32:00	4.101	5.706	57.817	
6/11/2024	15:33:00	4.175	5.63	44.618	
6/11/2024	15:34:00	4.203	5.698	25.658	Pt 2
6/11/2024	15:35:00	4.139	5.794	44.096	
6/11/2024	15:36:00	4.139	5.844	80.088	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	15:37:00	4.209	5.869	52.084	
6/11/2024	15:38:00	4.288	5.868	26.255	
6/11/2024	15:39:00	4.213	5.748	72.975	
6/11/2024	15:40:00	4.16	5.637	108.498	
6/11/2024	15:41:00	3.948	5.545	69.04	Pt 1
6/11/2024	15:42:00	4.164	5.449	71.067	
6/11/2024	15:43:00	4.06	5.758	133.766	
6/11/2024	15:44:00	4.478	3.215	110.064	
6/11/2024	15:45:00	4.672	0.029	0.004	
6/11/2024	15:46:00	4.621	0.02	0.005	Sys O2
6/11/2024	15:47:00	2.979	0.995	-0.825	
6/11/2024	15:48:00	0.044	4.556	-2.959	Sys NOx
6/11/2024	15:49:00	2.52	5.183	59.996	
6/11/2024	15:50:00	4.174	6.004	68.216	
6/11/2024	15:51:00	1.313	3.18	155.045	
6/11/2024	15:52:00	0.114	0.025	228.779	Sys CO
6/11/2024	15:53:00	1.244	0.559	205.697	
6/11/2024	15:54:00	4.207	5.487	76.576	
6/11/2024	15:55:00	4.162	5.902	105.915	Run 5
6/11/2024	15:56:00	4.122	6.024	164.215	
6/11/2024	15:57:00	4.147	5.951	108.019	
6/11/2024	15:58:00	4.232	6.067	96.101	
6/11/2024	15:59:00	4.275	6.12	62.593	
6/11/2024	16:00:00	4.242	5.731	114.425	
6/11/2024	16:01:00	4.256	5.809	111.288	Pt 3
6/11/2024	16:02:00	4.219	5.968	171.093	
6/11/2024	16:03:00	4.078	6.022	116.117	
6/11/2024	16:04:00	4.095	5.889	79.685	
6/11/2024	16:05:00	4.265	5.876	35.305	
6/11/2024	16:06:00	4.153	5.77	147.373	
6/11/2024	16:07:00	4.144	5.797	84.305	
6/11/2024	16:08:00	4.062	5.957	161.376	Pt 2
6/11/2024	16:09:00	4.103	5.97	87.282	
6/11/2024	16:10:00	4.065	5.91	97.709	
6/11/2024	16:11:00	4.136	5.947	84.377	
6/11/2024	16:12:00	4.139	5.948	85.751	
6/11/2024	16:13:00	4.097	5.828	109.515	
6/11/2024	16:14:00	4.205	5.809	80.872	
6/11/2024	16:15:00	4.17	5.977	73.65	Pt 1
6/11/2024	16:16:00	4.063	3.703	39.397	
6/11/2024	16:17:00	4.652	0.026	-0.112	Sys O2
6/11/2024	16:18:00	2.113	1.814	-1.82	
6/11/2024	16:19:00	0.057	4.562	-3.215	Sys NOx
6/11/2024	16:20:00	0.04	2.828	106.613	
6/11/2024	16:21:00	0.039	0.023	228.581	Sys CO
6/11/2024	16:22:00	1.409	0.942	216.359	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	16:23:00	4.161	5.603	128.251	
6/11/2024	16:24:00	4.21	6.046	85.995	Run 6
6/11/2024	16:25:00	4.213	6.153	95.303	
6/11/2024	16:26:00	4.1	5.865	150.982	
6/11/2024	16:27:00	4.12	5.703	145.806	
6/11/2024	16:28:00	4.298	5.973	121.864	
6/11/2024	16:29:00	4.233	6.261	79.442	
6/11/2024	16:30:00	4.246	5.971	112.064	Pt 3
6/11/2024	16:31:00	4.185	5.69	123.914	
6/11/2024	16:32:00	4.181	5.811	81.675	
6/11/2024	16:33:00	4.134	5.821	99.733	
6/11/2024	16:34:00	4.102	5.928	141.128	
6/11/2024	16:35:00	4.112	5.953	101.615	
6/11/2024	16:36:00	4.268	6.077	36.467	
6/11/2024	16:37:00	4.199	5.959	88.475	Pt 2
6/11/2024	16:38:00	4.202	5.775	84.131	
6/11/2024	16:39:00	4.139	5.736	121.899	
6/11/2024	16:40:00	4.215	5.844	58.437	
6/11/2024	16:41:00	4.148	5.993	68.694	
6/11/2024	16:42:00	4.16	5.762	85.22	
6/11/2024	16:43:00	4.123	5.636	177.923	
6/11/2024	16:44:00	4.197	5.77	112.651	Pt 1
6/11/2024	16:45:00	4.313	3.33	68.223	
6/11/2024	16:46:00	4.611	0.031	0.051	Sys O2
6/11/2024	16:47:00	2.445	1.434	-0.642	
6/11/2024	16:48:00	0.086	4.557	-1.901	Sys NOx
6/11/2024	16:49:00	0.068	2.804	111.699	
6/11/2024	16:50:00	0.053	0.028	229.539	Sys CO
6/11/2024	16:51:00	0.063	0.018	230.17	
6/11/2024	16:52:00	3.836	4.105	231.739	Direct Mid CO
6/11/2024	16:53:00	4.146	5.484	45.124	
6/11/2024	16:54:00	4.112	5.904	-0.103	Direct Zero CO
6/11/2024	16:55:00	4.196	6.097	-0.082	
6/11/2024	16:56:00	4.168	5.987	0.01	
6/11/2024	16:57:00	4.242	5.945	0.008	Run 7
6/11/2024	16:58:00	4.189	5.937	0.008	
6/11/2024	16:59:00	4.378	6.158	0.01	
6/11/2024	17:00:00	4.234	5.734	0.007	
6/11/2024	17:01:00	4.331	5.538	0.009	
6/11/2024	17:02:00	4.329	5.922	0.041	
6/11/2024	17:03:00	4.309	6.134	0.516	Pt 3
6/11/2024	17:04:00	4.185	6.06	0.803	
6/11/2024	17:05:00	4.146	5.918	1.001	
6/11/2024	17:06:00	4.072	5.961	1.002	
6/11/2024	17:07:00	4.311	5.906	1	
6/11/2024	17:08:00	4.177	5.918	0.999	
6/11/2024	17:09:00	4.267	5.951	0.999	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	17:10:00	4.232	5.667	0.998	Pt 2
6/11/2024	17:11:00	4.177	5.621	0.998	
6/11/2024	17:12:00	4.175	5.779	1.002	
6/11/2024	17:13:00	4.289	6.138	1.001	
6/11/2024	17:14:00	4.284	5.928	0.998	
6/11/2024	17:15:00	4.156	5.681	0.998	
6/11/2024	17:16:00	4.072	5.622	1.016	
6/11/2024	17:17:00	4.173	5.701	0.985	Pt 1
6/11/2024	17:18:00	4.185	2.639	1.02	
6/11/2024	17:19:00	4.645	0.027	1.271	Sys O2
6/11/2024	17:20:00	1.735	2.124	1.54	
6/11/2024	17:21:00	0.102	4.556	1.635	Sys NOx
6/11/2024	17:22:00	2.455	5.117	1.895	
6/11/2024	17:23:00	4.129	6.049	1.985	
6/11/2024	17:24:00	4.202	6.034	2.001	Run 8
6/11/2024	17:25:00	4.175	6.088	2.006	
6/11/2024	17:26:00	4.202	5.969	2.007	
6/11/2024	17:27:00	4.222	6.074	2.006	
6/11/2024	17:28:00	4.298	5.981	1.99	
6/11/2024	17:29:00	4.257	5.897	2.007	
6/11/2024	17:30:00	4.198	5.967	2.009	Pt 3
6/11/2024	17:31:00	4.28	6.046	2.008	
6/11/2024	17:32:00	4.278	6.061	2.008	
6/11/2024	17:33:00	4.137	5.912	2.008	
6/11/2024	17:34:00	4.157	5.695	2.01	
6/11/2024	17:35:00	4.044	5.663	2.01	
6/11/2024	17:36:00	4.159	5.81	2.01	
6/11/2024	17:37:00	4.174	6.059	2.008	Pt 2
6/11/2024	17:38:00	4.238	6.007	2.003	
6/11/2024	17:39:00	4.108	5.928	2.003	
6/11/2024	17:40:00	4.191	5.754	2.004	
6/11/2024	17:41:00	4.188	5.763	2.037	
6/11/2024	17:42:00	4.184	5.712	2.044	
6/11/2024	17:43:00	4.303	5.743	2	
6/11/2024	17:44:00	4.131	5.943	2.051	Pt 1
6/11/2024	17:45:00	4.081	4.609	2.005	
6/11/2024	17:46:00	4.636	0.053	2.028	Sys O2
6/11/2024	17:47:00	1.745	2.085	2.007	
6/11/2024	17:48:00	0.053	4.554	2.004	Sys NOx
6/11/2024	17:49:00	2.696	5.313	2.012	
6/11/2024	17:50:00	4.209	6.192	2.011	
6/11/2024	17:51:00	4.203	6.092	2.024	Run 9
6/11/2024	17:52:00	4.219	5.818	2.007	
6/11/2024	17:53:00	4.167	5.786	2.01	
6/11/2024	17:54:00	4.247	5.96	2.012	
6/11/2024	17:55:00	4.244	6.237	2.04	
6/11/2024	17:56:00	4.246	5.965	2.011	

Date	Time	O_2 %	NO_x PPM	CO PPM	Comments
6/11/2024	17:57:00	4.147	5.728	2.192	Pt 3
6/11/2024	17:58:00	4.163	5.508	2.171	
6/11/2024	17:59:00	4.175	5.821	2.384	
6/11/2024	18:00:00	4.201	6.279	2.424	
6/11/2024	18:01:00	4.28	6.257	2.331	
6/11/2024	18:02:00	4.182	5.837	2.407	
6/11/2024	18:03:00	4.23	5.75	2.247	
6/11/2024	18:04:00	4.268	5.897	2.171	Pt 2
6/11/2024	18:05:00	4.199	6.238	2.146	
6/11/2024	18:06:00	4.091	5.921	2.111	
6/11/2024	18:07:00	4.115	5.732	2.014	
6/11/2024	18:08:00	4.155	5.669	2.066	
6/11/2024	18:09:00	4.071	5.561	2.075	
6/11/2024	18:10:00	4.115	5.58	2.013	
6/11/2024	18:11:00	4.108	5.77	2.072	Pt 1
6/11/2024	18:12:00	3.997	4.552	2.014	
6/11/2024	18:13:00	4.584	0.066	1.981	Sys O2
6/11/2024	18:14:00	2.453	1.351	2.009	
6/11/2024	18:15:00	0.062	4.547	2.01	Sys NOx
6/11/2024	18:16:00	3.878	4.59	1.99	
6/11/2024	18:17:00	4.66	4.614	2.005	Direct Mid
6/11/2024	18:18:00	0.461	1.509	2.028	
6/11/2024	18:19:00	-0.118	0.008	2.002	Direct Zero
6/11/2024	18:20:00	-0.19	0.018	1.928	

Appendix A.3
Quality Assurance Data

Montrose Air Quality Services, LLC

MONTROSE

CEMS Performance Data Sheet

Client: GenOn Energy
Location: Ormond Beach Unit 1
CEMS ID#: 4-CEMS

Date: 6/11/2024
Performed By: JP/PR/TM/AE

Analyzer:	O_2	CO_2	NO_x	CO	SO_2
Manufacturer:	CAI	--	CAI	Thermo	--
Serial Number:	U02022		T10007	0634019583	

CEMS Probe:	Material:	S.S.	Length:	14'	Gas Temp:	250	°F
Heated Line	Material:	Teflon	Length:	10'	Gas Temp:	250	°F
Sample Conditioner:			Type:	Universal	Gas Temp:	33.8	°F
CEMS Line:	Material:	Teflon	Length:	150'			
Bias Line:	Material:	Teflon	Length:	150'			

Upscale Response Time:	30	Downscale Response Time:	30	seconds
Sample Pressure (psi):	6	Sample Flow Rate:	6	SCFH

Montrose Air Quality Services, LLC

MONTROSE

SPAN GAS RECORD AND CALIBRATION ERROR

CLIENT/LOCATION: Ormond Beach Unit 1 DATE: 6/11/24

TRUCK/CEM I.D.: 4-CEMS BY: JP/PR/TM/AE

	CYLINDER NO.	CONCENTRATION	Expiration Date	Vendor ID
ZERO	CC70210	0.0	4/2/2032	
O_2	CC252942	4.50	4/17/2032	B32024
O_2	EB0160719	9.14	12/7/2030	F22022
NO_x	CC8732	4.490	5/1/2026	F22023
NO_x	CC437328	8.411	4/3/2027	B32024
CO	DT0010548	228.0	11/3/2030	F22022
CO	ALM055503	451.4	5/6/2032	B32024
NO_2	CC506459	7.43	4/24/2027	B32024

PRE-TEST INSTRUMENT CALIBRATION ERROR

	ANALYZER					STATUS
	O_2	NO_x	CO			
Calibration Span	9.14	8.41	451.4			
Zero Gas Value	0.0	0.0	0.0			--
Analyzer Reads	0.04	0.014	-0.31			--
Error (% of scale)	0.5%	0.2%	-0.1%			PASS
High Gas Value	9.14	8.411	451.4			--
Analyzer Reads	9.14	8.54	451.33			--
Error (% of scale)	0.0%	1.5%	0.0%			PASS
Mid Gas Value	4.50	4.490	228.0			--
Analyzer Reads	4.59	4.60	232.17			--
Error (% of scale)	0.9%	1.3%	0.9%			PASS

Montrose Air Quality Services, LLC

NO2 to NO Converter Efficiency Test

Analyzer Manufacturer:	CAI	NO Cal Gas Value:	8.411
Analyzer Model:	600	NO_2 Cal Gas Value:	7.43 C_1
Analyzer Serial Number:	T10007	Performed By:	JP/PR/TM/AE
Date:	6/11/24	CEMS ID#:	4-CEMS

GAS	ANALYZER MODE	ANALYZER RESPONSE	CAL CORRECTED	LABEL
Zero	NO_x	0.01	--	--
NO	NO_x	8.54	--	--
NO_2	NO_x	6.80	6.69	C_2

		Requirement
$CE = C_2/C_1 * 100\%$:	90.1%	≥ 90%

	Cylinder #	Exp. Date
NO bottle:	CC437328	4/3/2027
NO_2 bottle:	CC506459	4/24/2027

REFERENCE METHOD CEMS QUALITY ASSURANCE DATA AND WORKSHEET
SAMPLE SYSTEM BIAS AND ANALYZER DRIFT RESULTS

Generating Station: Ormond Beach
Unit: 1
Test Date: 6/11/2024

Performed By: JP/PR/TM/AE
Test Condition: 261 MW
Fuel F-Factor: 8,710 dscf/MMBtu

Run Number	1		2		3		4		5		6		7		8		9	
Test Date	6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024	
Start Time	13:38		14:13		14:50		15:19		15:54		16:23		16:56		17:23		17:50	
Stop Time	14:02		14:40		15:11		15:40		16:15		16:44		17:17		17:44		18:11	
	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x
Calibration Span	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411	9.14	8.411
Span Gas Value	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49
Analyzer Zero	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01
Analyzer Span	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60
Pre-Test Zero Bias	0.06	0.01	0.04	0.02	0.01	0.03	0.04	0.03	0.04	0.02	0.06	0.03	0.09	0.03	0.10	0.03	0.05	0.05
Pre-Test Span Bias	4.62	4.53	4.53	4.54	4.54	4.56	4.63	4.57	4.62	4.56	4.65	4.56	4.61	4.56	4.65	4.56	4.64	4.55
Post-Test Zero Bias	0.04	0.02	0.01	0.03	0.04	0.03	0.04	0.02	0.06	0.03	0.09	0.03	0.10	0.03	0.05	0.05	0.06	0.07
Post-Test Span Bias	4.53	4.54	4.54	4.56	4.63	4.57	4.62	4.56	4.65	4.56	4.61	4.56	4.65	4.56	4.64	4.55	4.58	4.55
Pre-Test Zero Bias(%):	0.2%	-0.1%	0.0%	0.0%	-0.3%	0.2%	-0.1%	0.1%	0.0%	0.1%	0.2%	0.1%	0.5%	0.2%	0.7%	0.2%	0.1%	0.5%
Pre-Test Span Bias(%):	0.4%	-0.9%	-0.6%	-0.7%	-0.5%	-0.5%	0.4%	-0.4%	0.4%	-0.5%	0.7%	-0.5%	0.3%	-0.5%	0.6%	-0.5%	0.5%	-0.6%
Post-Test Zero Bias (%):	1.8%	0.1%	1.4%	0.3%	1.7%	0.2%	1.8%	0.1%	1.9%	0.2%	2.2%	0.3%	2.4%	0.2%	1.9%	0.5%	2.0%	0.7%
Post-Test Span Bias(%):	-1.4%	-0.8%	-1.3%	-0.7%	-0.4%	-0.5%	-0.4%	-0.7%	-0.1%	-0.6%	-0.5%	-0.7%	-0.2%	-0.7%	-0.3%	-0.7%	-0.8%	-0.8%
Zero Drift (%):	-0.2%	0.1%	-0.4%	0.2%	0.3%	-0.1%	0.1%	-0.1%	0.1%	0.1%	0.3%	0.1%	0.2%	0.0%	-0.5%	0.3%	0.1%	0.2%
Span Drift (%):	-1.0%	0.2%	0.1%	0.2%	0.9%	0.1%	-0.1%	-0.2%	0.3%	0.1%	-0.4%	-0.1%	0.4%	0.0%	-0.1%	0.0%	-0.6%	-0.1%

ABBREVIATED STRATIFICATION CHECK
EPA "LONG LINE"
Ormond Beach Unit 1

MONTROSE

Date	Time	O_2	NO_x		O_2 Avg.	NO_x Avg.
6/11/2024	13:39:00	4.034	6.114			
6/11/2024	13:40:00	4.108	6.018			
6/11/2024	13:41:00	3.985	6.67			
6/11/2024	13:42:00	4.106	6.258			
6/11/2024	13:43:00	4.106	5.445			
6/11/2024	1:44:00 PM	4.12	6.561			
6/11/2024	1:45:00 PM	4.146	7.37	Point 2	4.09	6.35
6/11/2024	1:46:00 PM	4.061	5.702			
6/11/2024	1:47:00 PM	3.971	4.679			
6/11/2024	1:48:00 PM	4.241	5.822			
6/11/2024	1:49:00 PM	4.225	6.675			
6/11/2024	1:50:00 PM	4.256	5.572			
6/11/2024	1:51:00 PM	4.3	5.027			
6/11/2024	1:52:00 PM	4.223	5.905	Point 1	4.18	5.63
6/11/2024	1:56:00 PM	4.178	8.335			
6/11/2024	1:57:00 PM	4.105	6.728			
6/11/2024	1:58:00 PM	4.107	5.749			
6/11/2024	1:59:00 PM	4.071	6.794			
6/11/2024	2:00:00 PM	4.113	7.964			
6/11/2024	2:01:00 PM	4.14	7.217			
6/11/2024	2:02:00 PM	4.149	6.013	Point 3	4.12	6.97
				Average	4.13	6.32
				Maximum	4.18	6.97
				Minimum	4.09	5.63
				Maximum Difference from Average	0.05	0.69
				Max Difference (% of average)	1.3%	10.9%
				Status	Pass	Pass

Notes:
If max difference is < 10%, short-line may be used
If max difference is < 5 ppm for NOx and 0.5% for O_2, short line may be used.

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
11711 S. Alameda Street
Los Angeles, CA 90059
Airgas.com

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CEM-CAL ZERO

Part Number:	NI CZ15A	Reference Number:	48-403008504-1
Cylinder Analyzed:	CC 210052	Cylinder Volume:	142.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2000 PSIG
Analysis Date:	Apr 02, 2024	Valve Outlet:	580
Lot Number:	48-403008504-1		

Expiration Date: Apr 02, 2032

ANALYTICAL RESULTS

Component	Requested Purity		Certified Concentration
NITROGEN	99.9995 %		99.9995 %
NOx	0.1 PPM	<LDL	0.018 PPM
SO2	0.1 PPM	<LDL	0.095 PPM
THC	0.1 PPM	<LDL	0.006 PPM
CARBON MONOXIDE	0.5 PPM	<LDL	0.012 PPM
CARBON DIOXIDE	1.0 PPM	<LDL	0.016 PPM

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

Cylinders in Batch:

CC 210052, CC190141, CC345865, CC484536, CC70210, CC724938

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

N2
CC70210
EXP. 04/02/2032

Approved for Release

Lo 05/10/2024

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an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
11711 S. Alameda Street
Los Angeles, CA 90059
Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E03NI86E15A62Q5	Reference Number:	48-403017517-1
Cylinder Number:	CC252942	Cylinder Volume:	150.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32024	Valve Outlet:	580
Gas Code:	CO2,O2,BALN	Certification Date:	Apr 17, 2024

Expiration Date: Apr 17, 2032

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

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
OXYGEN	4.500 %	4.503 %	G1	+/- 0.8% NIST Traceable	04/17/2024
CARBON DIOXIDE	9.000 %	9.090 %	G1	+/- 0.6% NIST Traceable	04/17/2024
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060709	CC338159	4.861 % OXYGEN/NITROGEN	+/- 0.4%	Nov 02, 2028
NTRM	13060402	CC411643	7.489 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	May 14, 2025

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
SIEMENS 6E CO2	NDIR	Mar 26, 2024
SIEMENS OXYMAT 6	PARAMAGNETIC	Mar 25, 2024

Triad Data Available Upon Request

O_2 4.503 %.
CO_2 9.090 %.
CC252942
EXP. 04/17/2032
B32024

LO 05/07/2024

Approved for Release

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DocNumber: 529578

Linde Gas & Equipment Inc.
5700 S. Alameda Street
Los Angeles CA 90058
Tel: 323-585-2154
Fax: 714-542-6689
PGVP ID: F22022

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONTROSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA 92705

Certificate Issuance Date: 12/08/2022
Linde Order Number: 72275211
Part Number: NI CD9O5E-AS
Customer PO Number: 80281340

Fill Date: 12/02/2022
Lot Number: 70086233606
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure and Volume: 2000 psig 148 ft3

Certified Concentration

ProSpec EZ Cert

Expiration Date: 12/07/2030		NIST Traceable Expanded Uncertainty
Cylinder Number: EB0160719		
9.13 %	Carbon dioxide	± 0.04 %
9.14 %	Oxygen	± 0.04 %
Balance	Nitrogen	

Certification Information: Certification Date: 12/07/2022 Term: 96 Months Expiration Date: 12/07/2030

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor k = 2. Do Not Use this Standard if Pressure is less than 100 PSIG.

CO2 responses have been corrected for Oxygen IR Broadening effect.

Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. **Component:** Carbon dioxide

Requested Concentration: 9 %
Certified Concentration: 9.13 %
Instrument Used: Horiba VIA-510 S/N 20C194WK
Analytical Method: NDIR
Last Multipoint Calibration: 11/11/2022

First Analysis Data:						Date	12/07/2022
Z: 0	R: 14.26	C: 9.14	Conc: 9.13				
R: 14.28	Z: 0	C: 9.14	Conc: 9.13				
Z: 0	C: 9.13	R: 14.27	Conc: 9.12				
UOM: %			Mean Test Assay:	9.13	%		

Reference Standard: Type / Cylinder #: GMIS / CC176580
Concentration / Uncertainty: 14.26 % ±0.03 %
Expiration Date: 01/21/2030
Traceable to: SRM # / Sample # / Cylinder #: NTRM / N/A / CC726055
SRM Concentration / Uncertainty: 19.34% / ±0.03%
SRM Expiration Date: 01/12/2027

Second Analysis Data:						Date	
Z: 0	R: 0	C: 0	Conc: 0				
R: 0	Z: 0	C: 0	Conc: 0				
Z: 0	C: 0	R: 0	Conc: 0				
UOM: %			Mean Test Assay:		%		

2. **Component:** Oxygen

Requested Concentration: 9 %
Certified Concentration: 9.14 %
Instrument Used: Siemens Oxymat 6E S/N 7MB20211AA000CA1
Analytical Method: Paramagnetic
Last Multipoint Calibration: 11/11/2022

First Analysis Data:						Date	12/07/2022
Z: 0	R: 14.98	C: 9.139	Conc: 9.14				
R: 14.98	Z: 0	C: 9.136	Conc: 9.14				
Z: 0	C: 9.137	R: 14.98	Conc: 9.14				
UOM: %			Mean Test Assay:	9.14	%		

Reference Standard: Type / Cylinder #: GMIS / SGAL2761
Concentration / Uncertainty: 14.98 % ±0.02 %
Expiration Date: 07/19/2026
Traceable to: SRM # / Sample # / Cylinder #: SRM 2659a / 71-E-19 / FF22331
SRM Concentration / Uncertainty: 20.863% / ±0.021%
SRM Expiration Date: 08/23/2021

Second Analysis Data:						Date	
Z: 0	R: 0	C: 0	Conc: 0				
R: 0	Z: 0	C: 0	Conc: 0				
Z: 0	C: 0	R: 0	Conc: 0				
UOM: %			Mean Test Assay:		%		

Analyzed By: Christopher Hernandez

Certified By: Courtney Zielke

O_2 9.14 %
CO_2 9.13 %
EB0160719
Exp. 12/7/30
F22022

JS 6/6/23

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DocNumber: 538772

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PGVP ID: F22023

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONTROSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA 92705

Certificate Issuance Date: 05/01/2023
Linde Order Number: 95892301
Part Number: NI NO4.5ME-AS
Customer PO Number: ALFRED STEWART

Fill Date: 04/20/2023
Lot Number: 70086310907
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

ProSpec EZ Cert

Expiration Date:	05/01/2026	NIST Traceable
Cylinder Number:	CC8732	Expanded Uncertainty
4.47 ppm	Nitric oxide	± 0.03 ppm
Balance	Nitrogen	

For Reference Only: NOx 4.49 ppm

Certification Information: Certification Date: 05/01/2023 Term: 36 Months Expiration Date: 05/01/2026

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor k = 2. Do Not Use this Standard if Pressure is less than 100 PSIG.

Analytical Data: (R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. Component: Nitric oxide

Requested Concentration: 4.5 ppm
Certified Concentration: 4.47 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030645077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 04/10/2023

Reference Standard: Type / Cylinder #: GMIS / DT0037199
Concentration / Uncertainty: 5.43 ppm ±0.03 ppm
Expiration Date: 12/15/2024
Traceable to: SRM # / Sample # / Cylinder #: PRM / C2268801 / APEX1429266
SRM Concentration / Uncertainty: 10.01 ppm / ±0.05 ppm
SRM Expiration Date: 09/30/2024

First Analysis Data:						Date	04/24/2023
Z: 0	R: 5.43	C: 4.46	Conc: 4.46				
R: 5.43	Z: 0	C: 4.47	Conc: 4.47				
Z: 0	C: 4.45	R: 5.42	Conc: 4.45				
UOM: ppm			Mean Test Assay:	4.46	ppm		

Second Analysis Data:						Date	05/01/2023
Z: 0	R: 5.43	C: 4.47	Conc: 4.48				
R: 5.42	Z: 0	C: 4.46	Conc: 4.47				
Z: 0	C: 4.46	R: 5.42	Conc: 4.47				
UOM: ppm			Mean Test Assay:	4.47	ppm		

Analyzed By: Lissette Morales

Certified By: Nelson Ma

NOx 4.49 ppm
CC8732
Exp. 5/1/26
F22023

JS 6/12/23

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
11711 S. Alameda Street
Los Angeles, CA 90059
Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15AC0A0	Reference Number:	48-403001708-1
Cylinder Number:	CC437328	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32024	Valve Outlet:	660
Gas Code:	NO,NOX,BALN	Certification Date:	Apr 03, 2024

Expiration Date: Apr 03, 2027

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

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	8.500 PPM	8.411 PPM	G1	+/- 0.9% NIST Traceable	03/26/2024, 04/03/2024
NITRIC OXIDE	8.500 PPM	8.355 PPM	G1	+/- 1.1% NIST Traceable	03/26/2024, 04/03/2024
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	16010112	ND47885	9.95 PPM NITRIC OXIDE/NITROGEN	+/- 1.0%	Jun 07, 2026
PRM	12402	APEX1324263-NOx	10.01 PPM NOx/NITROGEN	+/- 0.5%	Dec 23, 2022
GMIS	16010112	ND47885-NOX	9.95 PPM NOx/NITROGEN	+/- 0.6%	May 14, 2024

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

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
nCLD 844 S 844N0213 NO	Chemiluminescence	Mar 22, 2024
nCLD 844 S 844N0213 NOx	Chemiluminescence	Mar 22, 2024

Triad Data Available Upon Request

NOx 8.411 ppm
CC437328
Exp. 04/03/2027
B32024

Approved for Release

LO 05/07/2024

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DocNumber: 527374

Linde Gas & Equipment Inc.
5700 S. Alameda Street
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Fax: 714-542-6689
PGVP ID: F22022

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONTROSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA 92705

Certificate Issuance Date: 11/04/2022
Linde Order Number: 82843861
Part Number: NI CO225E-AS
Customer PO Number: LUIS OLIVARES

Fill Date: 10/25/2022
Lot Number: 70086229807
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure and Volume: 2000 psig 146 ft3

Certified Concentration

ProSpec EZ Cert

Expiration Date: 11/03/2030		NIST Traceable
Cylinder Number: DT0010548		Expanded Uncertainty
228.0 ppm	Carbon monoxide	± 0.9 ppm
Balance	Nitrogen	

Certification Information: Certification Date: 11/03/2022 Term: 96 Months Expiration Date: 11/03/2030

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Uncertainty above is expressed as absolute expanded uncertainty at a level of confidence of approximately 95% with a coverage factor k = 2. Do Not Use this Standard if Pressure is less than 100 PSIG.

Analytical Data:

(R=Reference Standard, Z=Zero Gas, C=Gas Candidate)

1. Component: Carbon monoxide

Requested Concentration: 225 ppm
Certified Concentration: 228.0 ppm
Instrument Used: Horiba VIA-510 S/N 576876015
Analytical Method: NDIR
Last Multipoint Calibration: 10/05/2022

Reference Standard: Type / Cylinder #: GMIS / CC174333
Concentration / Uncertainty: 245.2 ppm ±0.6 ppm
Expiration Date: 11/13/2029
Traceable to: SRM # / Sample # / Cylinder #: SRM 2636a / 57-G-06 / FF55714
SRM Concentration / Uncertainty: 248.87 ppm / ±0.54 ppm
SRM Expiration Date: 04/13/2024

First Analysis Data:				Date 11/03/2022
Z: 0	R: 245.2	C: 227.9	Conc: 228	
R: 245.1	Z: 0	C: 228	Conc: 228.1	
Z: 0	C: 227.9	R: 245.1	Conc: 228	
UOM: ppm		Mean Test Assay:	228 ppm	

Second Analysis Data:				Date
Z: 0	R: 0	C: 0	Conc: 0	
R: 0	Z: 0	C: 0	Conc: 0	
Z: 0	C: 0	R: 0	Conc: 0	
UOM: ppm		Mean Test Assay:	ppm	

Analyzed By: Christopher Hernandez

Certified By: Courtney Zielke

CO 228
DT0010548
Exp 11-3-30
F22022

AS 12-27-22

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
11711 S. Alameda Street
Los Angeles, CA 90059
Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02NI99E15A0499	Reference Number:	48-403035216-1
Cylinder Number:	ALM055503	Cylinder Volume:	144.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32024	Valve Outlet:	350
Gas Code:	CO,BALN	Certification Date:	May 06, 2024

Expiration Date: May 06, 2032

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

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
CARBON MONOXIDE	450.0 PPM	451.4 PPM	G1	+/- 0.8% NIST Traceable	05/06/2024
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	150605-51	CC453980	491.9 PPM CARBON MONOXIDE/	+/- 0.6%	Mar 05, 2027

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
Nicolet iS50 AUP2110317 CO	FTIR	May 01, 2024

Triad Data Available Upon Request

CO 451.4 PPM
ALM055503
EXP. 05/06/2032
B32024

LO 05/24/2024

Approved for Release

Airgas
an Air Liquide company

Airgas Specialty Gases
Airgas USA LLC
11711 S. Alameda Street
Los Angeles, CA 90059
Airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA PROTOCOL STANDARD

Part Number:	E02AI99E15WC004	Reference Number:	48-403015665-1
Cylinder Number:	CC506459	Cylinder Volume:	146.0 CF
Laboratory:	124 - Los Angeles (SAP) - CA	Cylinder Pressure:	2015 PSIG
PGVP Number:	B32024	Valve Outlet:	660
Gas Code:	NO2,O2,BALN	Certification Date:	Apr 24, 2024

Expiration Date: Apr 24, 2027

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

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NITROGEN DIOXIDE	7.750 PPM	7.426 PPM	G1	+/- 1.6% NIST Traceable	04/17/2024, 04/24/2024
AIR	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
GMIS	1534012021203	ND73014	10.11 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Jun 15, 2025
PRM	12409	D913660	15.01 PPM NITROGEN DIOXIDE/AIR	+/- 1.5%	Feb 18, 2023

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

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
MKS FTIR NO2 018335821	FTIR	Apr 10, 2024

Triad Data Available Upon Request

NO2 7.426 PPM
CC506459
EXP 04/24/2027
B32024

Approved for Release

LO 05/24/2024

APPENDIX B
FACILITY CEMS DATA

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 13:39 Through 06/11/2024 14:02
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	13:39	26,677.7	258.8	0.00	0.008	0.094	6.55	6.84	3.88	1.0
06/11/24	13:40	26,601.2	258.8	0.00	0.008	0.095	6.65	6.95	3.94	1.0
06/11/24	13:41	26,492.9	259.3	0.00	0.007	0.081	5.67	6.00	3.92	1.0
06/11/24	13:42	26,251.0	258.9	0.00	0.008	0.086	6.07	6.46	3.95	1.0
06/11/24	13:43	26,594.0	259.4	0.16	0.010	0.108	7.50	7.94	4.02	1.0
06/11/24	13:44	26,545.8	259.5	0.00	0.008	0.088	6.13	6.50	4.06	1.0
06/11/24	13:45	26,708.2	259.6	0.00	0.006	0.071	4.93	5.19	3.95	1.0
06/11/24	13:46	26,627.9	259.4	0.00	0.008	0.088	6.13	6.42	3.93	1.0
06/11/24	13:47	26,860.7	259.3	0.14	0.009	0.101	7.00	7.37	3.87	1.0
06/11/24	13:48	26,841.5	259.4	0.00	0.008	0.085	5.92	6.21	3.95	1.0
06/11/24	13:49	26,713.0	259.6	0.00	0.007	0.075	5.25	5.61	3.95	1.0
06/11/24	13:50	26,732.2	259.7	0.00	0.008	0.089	6.20	6.53	3.87	1.0
06/11/24	13:51	26,732.8	259.8	0.12	0.009	0.096	6.72	7.10	3.95	1.0
06/11/24	13:52	26,711.2	259.7	0.00	0.007	0.082	5.77	6.11	3.88	1.0
06/11/24	13:53	26,094.4	259.5	0.00	0.007	0.080	5.58	6.00	4.24	1.0
06/11/24	13:54	26,775.3	259.9	0.17	0.009	0.103	7.18	7.58	3.91	1.0
06/11/24	13:55	26,711.9	260.3	0.10	0.008	0.088	6.19	6.53	3.90	1.0
06/11/24	13:56	26,838.7	260.5	0.00	0.007	0.073	5.06	5.37	3.92	1.0
06/11/24	13:57	26,712.3	260.6	0.00	0.007	0.082	5.76	6.11	3.89	1.0
06/11/24	13:58	26,812.5	260.9	0.13	0.009	0.096	6.74	7.05	3.90	1.0
06/11/24	13:59	26,761.3	261.1	0.13	0.008	0.093	6.54	6.84	3.89	1.0
06/11/24	14:00	26,814.2	260.9	0.00	0.007	0.077	5.35	5.69	3.94	1.0
06/11/24	14:01	26,734.5	261.1	0.00	0.007	0.081	5.66	6.00	3.92	1.0
06/11/24	14:02	26,759.5	261.1	0.13	0.008	0.094	6.64	6.95	3.88	1.0
Average		26,671.0	259.9	0.05	0.008	0.088	6.13	6.47	3.94	1.0
Minimum		26,094.4	258.8	0.00	0.006	0.071	4.93	5.19	3.87	1.0
Maximum		26,860.7	261.1	0.17	0.010	0.108	7.50	7.94	4.24	1.0
Summation		640,104.7	6,237.1	1.08	0.188	2.106	147.19	155.35	94.51	24.0
Included Data Points		24	24	24	24	24	24	24	24	24
Total number of Data Points		24	24	24	24	24	24	24	24	24

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

Run 2

W002AS-041566-RT-6248

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Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 14:14 Through 06/11/2024 14:40
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	14:14	26,787.2	260.6	0.00	0.008	0.086	6.01	6.32	3.91	1.0
06/11/24	14:15	26,656.6	260.8	0.14	0.008	0.093	6.53	6.84	3.89	1.0
06/11/24	14:16	26,731.5	261.1	0.11	0.008	0.087	6.16	6.49	3.82	1.0
06/11/24	14:17	26,573.9	261.1	0.00	0.007	0.078	5.55	5.76	3.81	1.0
06/11/24	14:18	26,466.7	260.9	0.00	0.007	0.081	5.77	6.11	3.93	1.0
06/11/24	14:19	26,728.1	259.4	0.15	0.009	0.095	6.68	7.01	3.82	1.0
06/11/24	14:20	26,414.1	259.1	0.10	0.008	0.087	6.17	6.53	3.90	1.0
06/11/24	14:21	26,116.0	258.4	0.00	0.007	0.077	5.49	5.79	3.93	1.0
06/11/24	14:22	25,770.7	258.3	0.00	0.008	0.085	6.05	6.50	4.14	1.0
06/11/24	14:23	26,451.5	258.6	0.19	0.009	0.102	7.16	7.58	3.92	1.0
06/11/24	14:24	26,650.4	258.7	0.13	0.008	0.087	6.14	6.39	3.82	1.0
06/11/24	14:25	26,709.5	259.2	0.00	0.007	0.076	5.29	5.58	3.87	1.0
06/11/24	14:26	26,550.5	259.1	0.00	0.007	0.079	5.55	5.76	3.84	1.0
06/11/24	14:27	26,570.9	259.7	0.12	0.008	0.091	6.41	6.74	3.91	1.0
06/11/24	14:28	26,438.9	259.3	0.14	0.008	0.093	6.59	6.95	3.88	1.0
06/11/24	14:29	26,383.6	259.3	0.00	0.007	0.082	5.80	6.14	3.98	1.0
06/11/24	14:30	26,276.0	259.0	0.00	0.007	0.079	5.62	5.90	3.93	1.0
06/11/24	14:31	26,353.2	258.9	0.10	0.008	0.085	6.04	6.28	3.83	1.0
06/11/24	14:32	26,648.5	259.2	0.13	0.008	0.091	6.36	6.74	3.86	1.0
06/11/24	14:33	26,466.4	259.3	0.12	0.008	0.088	6.20	6.53	3.91	1.0
06/11/24	14:34	26,677.1	259.6	0.00	0.007	0.083	5.80	6.11	3.87	1.0
06/11/24	14:35	26,413.4	259.8	0.00	0.008	0.083	5.89	6.21	3.92	1.0
06/11/24	14:36	26,542.9	260.0	0.12	0.008	0.089	6.27	6.67	3.97	1.0
06/11/24	14:37	26,251.6	260.1	0.13	0.008	0.089	6.28	6.67	4.01	1.0
06/11/24	14:38	26,486.9	260.1	0.12	0.008	0.085	6.02	6.32	3.93	1.0
06/11/24	14:39	26,651.2	260.1	0.10	0.007	0.083	5.84	6.11	3.90	1.0
06/11/24	14:40	26,653.4	260.1	0.11	0.008	0.085	5.99	6.32	3.94	1.0
Average		26,497.1	259.6	0.07	0.008	0.086	6.06	6.38	3.91	1.0
Minimum		25,770.7	258.3	0.00	0.007	0.076	5.29	5.58	3.81	1.0
Maximum		26,787.2	261.1	0.19	0.009	0.102	7.16	7.58	4.14	1.0
Summation		715,420.7	7,009.8	2.01	0.209	2.319	163.66	172.35	105.44	27.0
Included Data Points		27	27	27	27	27	27	27	27	27
Total number of Data Points		27	27	27	27	27	27	27	27	27

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

Run 3

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 14:51 Through 06/11/2024 15:11
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	14:51	26,681.0	261.4	0.00	0.007	0.079	5.56	5.93	3.97	1.0
06/11/24	14:52	26,653.4	261.6	0.12	0.008	0.085	5.99	6.36	3.97	1.0
06/11/24	14:53	26,709.5	262.1	0.14	0.008	0.089	6.26	6.63	3.94	1.0
06/11/24	14:54	26,812.8	262.5	0.13	0.008	0.087	6.11	6.46	3.95	1.0
06/11/24	14:55	26,840.5	262.8	0.11	0.008	0.083	5.87	6.21	3.90	1.0
06/11/24	14:56	26,787.3	263.2	0.11	0.007	0.082	5.80	6.11	3.93	1.0
06/11/24	14:57	27,000.7	262.7	0.13	0.008	0.088	6.12	6.42	3.95	1.0
06/11/24	14:58	26,525.5	262.4	0.10	0.008	0.084	5.95	6.21	3.90	1.0
06/11/24	14:59	26,304.4	261.5	0.00	0.007	0.080	5.70	6.00	3.93	1.0
06/11/24	15:00	26,460.9	261.1	0.16	0.009	0.093	6.56	7.03	4.07	1.0
06/11/24	15:01	26,915.6	261.7	0.17	0.008	0.094	6.58	6.91	3.84	1.0
06/11/24	15:02	26,605.4	261.6	0.11	0.007	0.082	5.74	6.04	4.03	1.0
06/11/24	15:03	26,731.2	261.3	0.00	0.007	0.080	5.61	5.90	3.93	1.0
06/11/24	15:04	26,838.4	260.9	0.11	0.008	0.085	5.93	6.21	3.86	1.0
06/11/24	15:05	26,630.1	259.7	0.11	0.008	0.084	5.95	6.28	3.81	1.0
06/11/24	15:06	26,305.8	259.6	0.00	0.007	0.081	5.75	5.97	3.82	1.0
06/11/24	15:07	26,248.1	259.3	0.00	0.008	0.085	6.04	6.32	3.87	1.0
06/11/24	15:08	26,033.2	258.7	0.14	0.008	0.091	6.45	6.93	4.06	1.0
06/11/24	15:09	26,563.0	259.0	0.17	0.009	0.096	6.73	7.05	3.90	1.0
06/11/24	15:10	26,358.5	259.0	0.00	0.007	0.080	5.72	5.97	3.81	1.0
06/11/24	15:11	26,408.2	259.2	0.00	0.007	0.076	5.42	5.65	3.80	1.0
Average		26,591.1	261.0	0.09	0.008	0.085	5.99	6.31	3.92	1.0
Minimum		26,033.2	258.7	0.00	0.007	0.076	5.42	5.65	3.80	1.0
Maximum		27,000.7	263.2	0.17	0.009	0.096	6.73	7.05	4.07	1.0
Summation		558,413.5	5,481.3	1.81	0.162	1.784	125.84	132.59	82.24	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Report Generated: 06/11/24 16:24 Version 6.18 GONPRODU\Sheila.Reilly 1 of 1

Run 4

W002AS-041566-RT-6248

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:20 Through 06/11/2024 15:40
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	15:20	26,541.2	260.4	0.12	0.008	0.086	6.08	6.42	3.94	1.0
06/11/24	15:21	26,384.9	260.2	0.13	0.008	0.086	6.11	6.42	3.92	1.0
06/11/24	15:22	26,621.8	260.3	0.13	0.008	0.087	6.12	6.46	3.96	1.0
06/11/24	15:23	26,518.8	260.5	0.12	0.008	0.084	5.95	6.32	3.87	1.0
06/11/24	15:24	26,544.9	260.4	0.11	0.008	0.084	5.93	6.25	3.99	1.0
06/11/24	15:25	26,411.1	260.4	0.12	0.008	0.084	5.97	6.32	3.95	1.0
06/11/24	15:26	26,676.7	260.7	0.12	0.008	0.085	6.00	6.32	3.93	1.0
06/11/24	15:27	26,387.3	260.5	0.13	0.008	0.086	6.07	6.46	3.97	1.0
06/11/24	15:28	26,648.9	260.6	0.13	0.008	0.089	6.19	6.61	4.06	1.0
06/11/24	15:29	26,440.2	260.5	0.15	0.008	0.089	6.24	6.57	4.05	1.0
06/11/24	15:30	26,754.6	260.3	0.12	0.008	0.084	5.89	6.25	3.97	1.0
06/11/24	15:31	26,655.7	260.3	0.11	0.007	0.082	5.75	6.14	4.00	1.0
06/11/24	15:32	26,387.3	260.4	0.12	0.008	0.084	5.91	6.29	4.08	1.0
06/11/24	15:33	26,569.5	260.4	0.12	0.008	0.085	5.98	6.36	4.01	1.0
06/11/24	15:34	26,545.1	260.2	0.13	0.008	0.086	6.04	6.32	3.95	1.0
06/11/24	15:35	26,571.8	260.5	0.13	0.008	0.087	6.06	6.46	4.03	1.0
06/11/24	15:36	26,439.3	260.9	0.12	0.008	0.086	6.02	6.39	4.07	1.0
06/11/24	15:37	26,490.3	260.7	0.12	0.008	0.084	5.92	6.21	3.94	1.0
06/11/24	15:38	26,544.0	260.5	0.11	0.007	0.082	5.81	6.11	3.87	1.0
06/11/24	15:39	26,491.9	260.4	0.12	0.008	0.085	5.96	6.36	3.97	1.0
06/11/24	15:40	26,728.8	260.5	0.15	0.008	0.090	6.29	6.67	3.95	1.0
Average		26,540.7	260.5	0.12	0.008	0.085	6.01	6.37	3.98	1.0
Minimum		26,384.9	260.2	0.11	0.007	0.082	5.75	6.11	3.87	1.0
Maximum		26,754.6	260.9	0.15	0.008	0.090	6.29	6.67	4.08	1.0
Summation		557,354.1	5,469.6	2.61	0.166	1.795	126.29	133.71	83.48	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Run 5

W002AS-041566-RT-6248

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 15:55 Through 06/11/2024 16:15
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	15:55	26,385.2	261.2	0.11	0.008	0.085	6.00	6.36	3.95	1.0
06/11/24	15:56	26,542.3	261.3	0.13	0.008	0.088	6.21	6.53	3.92	1.0
06/11/24	15:57	26,385.0	261.2	0.14	0.008	0.088	6.25	6.53	3.93	1.0
06/11/24	15:58	26,488.9	261.1	0.11	0.008	0.083	5.88	6.21	3.91	1.0
06/11/24	15:59	26,597.9	261.5	0.11	0.008	0.084	5.92	6.21	3.90	1.0
06/11/24	16:00	26,625.7	261.2	0.13	0.008	0.086	6.08	6.39	3.84	1.0
06/11/24	16:01	26,680.4	260.9	0.14	0.008	0.088	6.23	6.53	3.90	1.0
06/11/24	16:02	26,654.6	261.0	0.12	0.008	0.086	6.02	6.32	3.93	1.0
06/11/24	16:03	26,493.2	261.0	0.12	0.008	0.084	5.96	6.36	3.98	1.0
06/11/24	16:04	26,651.5	261.0	0.11	0.008	0.083	5.88	6.21	3.88	1.0
06/11/24	16:05	26,440.3	261.0	0.11	0.008	0.083	5.92	6.21	3.91	1.0
06/11/24	16:06	26,650.7	261.1	0.12	0.008	0.087	6.15	6.42	3.85	1.0
06/11/24	16:07	26,466.7	261.0	0.12	0.008	0.086	6.14	6.42	3.91	1.0
06/11/24	16:08	26,623.2	261.1	0.13	0.008	0.086	6.07	6.42	3.89	1.0
06/11/24	16:09	26,519.3	261.2	0.13	0.008	0.086	6.06	6.42	3.95	1.0
06/11/24	16:10	26,571.1	261.1	0.13	0.008	0.087	6.10	6.46	4.00	1.0
06/11/24	16:11	26,572.2	261.4	0.12	0.008	0.084	5.98	6.32	3.90	1.0
06/11/24	16:12	26,438.7	261.3	0.12	0.008	0.085	6.00	6.36	3.97	1.0
06/11/24	16:13	26,596.5	261.5	0.13	0.008	0.087	6.14	6.46	3.95	1.0
06/11/24	16:14	26,519.8	261.6	0.13	0.008	0.086	6.09	6.42	3.89	1.0
06/11/24	16:15	26,651.2	261.6	0.11	0.007	0.082	5.83	6.11	3.90	1.0
Average		26,550.2	261.2	0.12	0.008	0.085	6.04	6.37	3.92	1.0
Minimum		26,385.0	260.9	0.11	0.007	0.082	5.83	6.11	3.84	1.0
Maximum		26,680.4	261.6	0.14	0.008	0.088	6.25	6.53	4.00	1.0
Summation		557,554.4	5,485.3	2.57	0.167	1.794	126.91	133.67	82.26	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Report Generated: 06/11/24 16:21 Version 6.18 GONPRODU\Sheila.Reilly

Run 6

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 16:24 Through 06/11/2024 16:44
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	16:24	26,676.7	260.9	0.12	0.008	0.085	5.99	6.32	3.85	1.0
06/11/24	16:25	26,574.5	261.2	0.10	0.007	0.082	5.85	6.18	3.83	1.0
06/11/24	16:26	26,572.6	261.2	0.12	0.008	0.087	6.11	6.46	3.97	1.0
06/11/24	16:27	26,652.6	261.0	0.15	0.008	0.090	6.35	6.63	3.91	1.0
06/11/24	16:28	26,573.8	261.0	0.14	0.008	0.087	6.12	6.42	3.91	1.0
06/11/24	16:29	26,757.6	261.0	0.11	0.007	0.082	5.77	6.11	3.89	1.0
06/11/24	16:30	26,682.4	261.4	0.11	0.008	0.084	5.90	6.21	3.92	1.0
06/11/24	16:31	26,547.3	261.6	0.12	0.008	0.084	5.96	6.32	3.88	1.0
06/11/24	16:32	26,599.6	261.7	0.12	0.008	0.086	6.06	6.42	3.90	1.0
06/11/24	16:33	26,626.5	261.8	0.12	0.008	0.086	6.11	6.42	3.93	1.0
06/11/24	16:34	26,493.0	261.7	0.14	0.008	0.088	6.21	6.57	4.03	1.0
06/11/24	16:35	26,678.2	261.6	0.13	0.008	0.086	6.08	6.42	3.90	1.0
06/11/24	16:36	26,710.4	261.6	0.13	0.008	0.084	5.93	6.21	3.91	1.0
06/11/24	16:37	26,866.8	261.8	0.12	0.008	0.084	5.86	6.21	3.90	1.0
06/11/24	16:38	26,659.0	261.8	0.13	0.008	0.086	6.03	6.36	4.00	1.0
06/11/24	16:39	26,785.3	261.7	0.14	0.008	0.087	6.13	6.42	3.93	1.0
06/11/24	16:40	26,576.5	261.6	0.12	0.008	0.083	5.93	6.21	3.86	1.0
06/11/24	16:41	26,890.5	261.7	0.11	0.007	0.082	5.77	6.07	3.81	1.0
06/11/24	16:42	26,524.3	261.7	0.11	0.008	0.083	5.90	6.21	3.94	1.0
06/11/24	16:43	26,756.7	262.0	0.13	0.008	0.088	6.22	6.53	3.86	1.0
06/11/24	16:44	26,496.7	261.8	0.11	0.008	0.085	6.05	6.28	3.85	1.0
Average		26,652.4	261.5	0.12	0.008	0.085	6.02	6.33	3.90	1.0
Minimum		26,493.0	260.9	0.10	0.007	0.082	5.77	6.07	3.81	1.0
Maximum		26,890.5	262.0	0.15	0.008	0.090	6.35	6.63	4.03	1.0
Summation		559,701.0	5,491.8	2.58	0.165	1.789	126.33	132.98	81.98	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Report Generated: 06/11/24 16:45 Version 6.18 GONPRODU\Sheila.Reilly 1 of 1

Run 7

W002AS-041566-RT-6248

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Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 16:57 Through 06/11/2024 17:17
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	16:57	26,763.3	261.4	0.16	0.008	0.090	6.35	6.63	3.94	1.0
06/11/24	16:58	26,974.1	261.8	0.13	0.007	0.084	5.92	6.18	3.81	1.0
06/11/24	16:59	26,764.6	261.8	0.00	0.007	0.080	5.62	5.90	3.94	1.0
06/11/24	17:00	26,656.1	261.9	0.12	0.008	0.085	6.01	6.32	3.93	1.0
06/11/24	17:01	26,654.2	261.9	0.13	0.008	0.089	6.23	6.57	3.99	1.0
06/11/24	17:02	26,520.7	262.0	0.14	0.008	0.087	6.15	6.57	3.96	1.0
06/11/24	17:03	26,678.6	261.9	0.13	0.008	0.086	6.05	6.46	4.00	1.0
06/11/24	17:04	26,759.6	262.0	0.13	0.008	0.086	6.06	6.42	3.92	1.0
06/11/24	17:05	26,576.2	261.8	0.14	0.008	0.085	6.00	6.36	4.04	1.0
06/11/24	17:06	26,944.2	262.1	0.15	0.008	0.088	6.11	6.46	3.99	1.0
06/11/24	17:07	26,871.3	262.1	0.15	0.008	0.087	6.06	6.46	4.04	1.0
06/11/24	17:08	26,789.2	262.1	0.12	0.007	0.082	5.77	6.14	3.96	1.0
06/11/24	17:09	26,815.0	262.0	0.11	0.007	0.081	5.73	6.00	3.90	1.0
06/11/24	17:10	26,762.1	262.0	0.12	0.008	0.084	5.89	6.25	3.96	1.0
06/11/24	17:11	26,760.7	262.1	0.15	0.008	0.089	6.24	6.57	3.96	1.0
06/11/24	17:12	26,761.5	261.6	0.13	0.008	0.086	6.02	6.32	3.90	1.0
06/11/24	17:13	26,840.6	261.7	0.12	0.007	0.082	5.78	6.11	3.88	1.0
06/11/24	17:14	26,976.6	261.8	0.11	0.007	0.083	5.80	6.07	3.80	1.0
06/11/24	17:15	26,606.6	261.7	0.11	0.008	0.083	5.87	6.21	3.90	1.0
06/11/24	17:16	26,653.1	261.7	0.13	0.008	0.086	6.09	6.42	3.90	1.0
06/11/24	17:17	26,732.5	261.5	0.14	0.008	0.089	6.27	6.63	3.89	1.0
Average		26,755.3	261.9	0.12	0.008	0.085	6.00	6.34	3.93	1.0
Minimum		26,520.7	261.4	0.00	0.007	0.080	5.62	5.90	3.80	1.0
Maximum		26,976.6	262.1	0.16	0.008	0.090	6.35	6.63	4.04	1.0
Summation		561,860.8	5,498.9	2.62	0.162	1.792	126.02	133.05	82.61	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Run 8

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 17:24 Through 06/11/2024 17:44
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	17:24	26,734.4	261.1	0.12	0.008	0.086	6.03	6.32	3.91	1.0
06/11/24	17:25	26,894.3	261.4	0.13	0.008	0.087	6.11	6.42	3.90	1.0
06/11/24	17:26	26,552.0	261.6	0.13	0.008	0.086	6.08	6.46	3.96	1.0
06/11/24	17:27	26,572.2	261.6	0.13	0.008	0.084	5.96	6.32	3.95	1.0
06/11/24	17:28	26,811.8	261.8	0.13	0.008	0.086	6.03	6.36	3.96	1.0
06/11/24	17:29	26,630.0	261.8	0.13	0.008	0.087	6.09	6.46	4.03	1.0
06/11/24	17:30	26,601.3	262.0	0.15	0.008	0.088	6.16	6.57	4.02	1.0
06/11/24	17:31	26,919.0	262.0	0.15	0.008	0.086	6.03	6.32	3.94	1.0
06/11/24	17:32	26,685.5	261.9	0.12	0.007	0.082	5.79	6.14	3.96	1.0
06/11/24	17:33	26,893.1	262.1	0.11	0.007	0.082	5.75	6.11	3.88	1.0
06/11/24	17:34	26,736.6	262.0	0.13	0.008	0.084	5.89	6.25	3.99	1.0
06/11/24	17:35	26,894.2	262.0	0.14	0.008	0.088	6.14	6.46	3.97	1.0
06/11/24	17:36	26,583.7	261.7	0.14	0.008	0.088	6.15	6.50	4.06	1.0
06/11/24	17:37	26,780.7	261.8	0.14	0.008	0.087	6.08	6.42	3.93	1.0
06/11/24	17:38	26,710.8	261.7	0.13	0.008	0.085	5.95	6.25	4.00	1.0
06/11/24	17:39	26,812.2	261.7	0.13	0.008	0.084	5.89	6.25	4.01	1.0
06/11/24	17:40	26,736.9	261.8	0.13	0.008	0.083	5.87	6.25	3.96	1.0
06/11/24	17:41	26,658.1	261.8	0.12	0.007	0.083	5.84	6.14	4.01	1.0
06/11/24	17:42	26,783.9	261.9	0.14	0.008	0.087	6.10	6.42	3.95	1.0
06/11/24	17:43	26,815.0	261.7	0.14	0.008	0.086	6.05	6.46	3.97	1.0
06/11/24	17:44	26,946.3	261.9	0.13	0.008	0.086	6.00	6.32	3.93	1.0
Average		26,750.1	261.8	0.13	0.008	0.085	6.00	6.34	3.97	1.0
Minimum		26,552.0	261.1	0.11	0.007	0.082	5.75	6.11	3.88	1.0
Maximum		26,946.3	262.1	0.15	0.008	0.088	6.16	6.57	4.06	1.0
Summation		561,752.0	5,497.3	2.77	0.165	1.795	125.99	133.20	83.29	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

Run 9

W002AS-041566-RT-6248

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll
Report Period: 06/11/2024 17:51 Through 06/11/2024 18:11
Time Online Criteria: 1 minute(s)

Source		ORB1								
Parameter		GASFLOW	LOADMW	NH3FLOW	NOX#/MM	NOX#/NMW	NOXPPM	NOXPPMC	O2	UNITOPHR
Unit		(HSCFH)	(MW)	(GPM)	(LB/MMBTU)	(LB/NMW)	(PPM)	(PPM)	(PERCENT)	(MIN)
06/11/24	17:51	26,682.7	261.3	0.12	0.007	0.083	5.84	6.11	3.94	1.0
06/11/24	17:52	26,603.1	261.3	0.12	0.008	0.085	5.97	6.36	4.01	1.0
06/11/24	17:53	26,782.4	261.4	0.15	0.008	0.090	6.28	6.67	3.97	1.0
06/11/24	17:54	26,607.1	261.2	0.14	0.008	0.087	6.08	6.46	3.99	1.0
06/11/24	17:55	26,861.4	261.1	0.12	0.008	0.084	5.85	6.21	3.88	1.0
06/11/24	17:56	26,610.1	260.7	0.10	0.007	0.079	5.59	5.90	3.86	1.0
06/11/24	17:57	26,834.0	260.7	0.11	0.007	0.084	5.85	6.11	3.93	1.0
06/11/24	17:58	26,688.0	261.2	0.14	0.008	0.090	6.31	6.67	3.98	1.0
06/11/24	17:59	26,603.9	260.9	0.16	0.008	0.092	6.43	6.82	4.09	1.0
06/11/24	18:00	26,548.1	261.2	0.14	0.008	0.085	5.98	6.36	4.00	1.0
06/11/24	18:01	26,652.0	261.5	0.11	0.008	0.083	5.80	6.18	4.06	1.0
06/11/24	18:02	26,498.5	261.7	0.12	0.008	0.084	5.89	6.29	4.08	1.0
06/11/24	18:03	26,726.3	261.8	0.15	0.008	0.090	6.28	6.67	4.02	1.0
06/11/24	18:04	26,500.5	261.7	0.15	0.008	0.087	6.14	6.46	3.97	1.0
06/11/24	18:05	26,883.8	261.7	0.14	0.008	0.085	5.92	6.25	3.98	1.0
06/11/24	18:06	26,689.6	261.3	0.13	0.007	0.083	5.81	6.14	3.99	1.0
06/11/24	18:07	26,942.3	261.2	0.11	0.007	0.081	5.65	5.97	3.83	1.0
06/11/24	18:08	26,872.5	261.1	0.10	0.007	0.080	5.63	5.86	3.84	1.0
06/11/24	18:09	26,817.7	260.9	0.11	0.007	0.083	5.85	6.07	3.84	1.0
06/11/24	18:10	26,555.3	260.7	0.12	0.008	0.084	5.98	6.28	3.81	1.0
06/11/24	18:11	26,780.5	260.7	0.12	0.008	0.087	6.13	6.39	3.83	1.0
Average		26,701.9	261.2	0.13	0.008	0.085	5.96	6.30	3.95	1.0
Minimum		26,498.5	260.7	0.10	0.007	0.079	5.59	5.86	3.81	1.0
Maximum		26,942.3	261.8	0.16	0.008	0.092	6.43	6.82	4.09	1.0
Summation		560,739.8	5,485.3	2.66	0.161	1.786	125.26	132.23	82.90	21.0
Included Data Points		21	21	21	21	21	21	21	21	21
Total number of Data Points		21	21	21	21	21	21	21	21	21

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

APPENDIX C
CALCULATIONS

Appendix C.1
General Emissions Calculations

GENERAL EMISSION 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

$$Ps = Pbar + \frac{Psg}{13.6}$$

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

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

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{lc} * \frac{T_{ref}}{528\ ^oR}$$

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

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

V. Emission Rates, lb/MMBtu

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

VI. Percent Isokinetic

$$I = \frac{17.32 \times T_s \, (V_m std)}{(1\text{-}Bwo)\ 0 \times Vs \times Ps \times Dn2} \times \frac{520°R}{T_{ref}}$$

VII. Particulate emissions

(a) Grain loading, gr/dscf
$C = 0.01543\ (M_n/V_{m\ std})$

(b) Grain loading at 12% CO_2, gr/dscf
$C_{12\%}\ CO_2 = C\ (12/\%\ CO_2)$

(c) Mass emissions, lb/hr
$M = C \times Qsd \times (60\ min/hr)/(7000\ gr/lb)$

(d) Particulate emission factor

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

Nomenclature:

A_s	= stack area, ft^2
B_{wo}	= 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
Dn	= nozzle diameter, in.
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, min.
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, iwb
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

RATA SPECIFIC EMISSION CALCULATIONS

The following equations are used for Relative Accuracy Test Audit (RATA) Computational Procedures:

1. Stack Gas Corrected Concentration

   a. $C_{gas} = (\overline{C} - C_o) \frac{C_{ma}}{C_m - C_o}$

2. Relative Accuracy Calculations

   a. Average Difference

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

   b. Standard Deviation

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

   c. Confidence Coefficient

$$CC = t_{0.975} \frac{S_d}{\sqrt{n}}$$

   d. Relative Accuracy

$$RA = \frac{|\bar{d}| + |cc|}{\overline{RA}} \; x \; 100$$

   e. Reference Method Average

$$\overline{RM} = \frac{1}{n} \sum_{i=1}^{n} RM_i$$

3. Bias Adjustment Factor

a. $BAF = 1 + \frac{|\bar{d}|}{CEM}$

4. Nomenclature

C_{gas}	=	Corrected Stack Gas Concentration, ppm dry
$\bar{C}$	=	Average Gas Concentration, ppm dry
C_o	=	Average of the Initial and Final Zero Bias Check
C_m	=	Average of the Initial and Final Upscale Bias Check
C_{ma}	=	Actual Value of Upscale Calibration Gas Concentration
$\bar{d}$	=	Arithmetic Mean
S_d	=	Standard Deviation
N	=	Number of Tests
CC	=	Confidence Coefficient
RA	=	Relative Accuracy
RM	=	Reference Method
$t_{0.975}$	=	t Value
$\lvert d \rvert$	=	Absolute Value of the Mean Difference

Appendix C.2
Spreadsheet Summary

40 CFR PART 75 RATA DATA AND WORKSHEET
NO_x lb/MMBtu

MONTROSE

Generating Station: Ormond Beach
Unit: 1
Test Date: 6/11/2024

Performed By: JP/PR/TM/AE
Test Condition: 261 MW
Fuel F-Factor: 8,710 dscf/MMBtu

Run Number	1		2		3		4		5		6		7		8		9	
Test Date	6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024		6/11/2024	
Start Time	13:38		14:13		14:50		15:19		15:54		16:23		16:56		17:23		17:50	
Stop Time	14:02		14:40		15:11		15:40		16:15		16:44		17:17		17:44		18:11	
	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x	O_2	NO_x
Calibration Span	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.41	9.14	8.411
Span Gas Value	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49	4.50	4.49
Pre-Analyzer Zero	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04	0.01
Pre-Analyzer Span	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60	4.59	4.60
Pre-Test Zero Bias	0.06	0.01	0.04	0.02	0.01	0.03	0.04	0.03	0.04	0.02	0.06	0.03	0.09	0.03	0.10	0.03	0.05	0.05
Pre-Test Span Bias	4.62	4.53	4.53	4.54	4.54	4.56	4.63	4.57	4.62	4.56	4.65	4.56	4.61	4.56	4.65	4.56	4.64	4.55
Pt 3	4.09	6.35	4.14	5.71	4.09	5.81	4.21	5.82	4.21	5.94	4.20	6.00	4.29	5.91	4.22	6.00	4.21	5.941
Pt 2	4.18	5.63	4.13	5.84	4.10	5.83	4.16	5.88	4.15	5.90	4.17	5.89	4.20	5.91	4.18	5.89	4.21	5.907
Pt 1	4.12	6.97	4.10	5.76	4.08	5.84	4.19	5.78	4.13	5.91	4.17	5.79	4.19	5.78	4.19	5.84	4.12	5.782
Post-Test Zero Bias	0.04	0.02	0.01	0.03	0.04	0.03	0.04	0.02	0.06	0.03	0.09	0.03	0.10	0.03	0.05	0.05	0.06	0.07
Post-Test Span Bias	4.53	4.54	4.54	4.56	4.63	4.57	4.62	4.56	4.65	4.56	4.61	4.56	4.65	4.56	4.64	4.55	4.58	4.55
Post-Analyzer Zero	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01	-0.12	0.01
Post-Analyzer Span	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61	4.66	4.61
RM Average	4.13	6.32	4.12	5.77	4.09	5.83	4.19	5.83	4.16	5.92	4.18	5.89	4.23	5.87	4.20	5.91	4.18	5.88
RM Corrected Average	4.06	6.26	4.09	5.70	4.01	5.74	4.07	5.74	4.04	5.83	4.06	5.81	4.10	5.79	4.06	5.84	4.08	5.82
RM lb/MMBtu	0.008		0.007		0.007		0.007		0.008		0.007		0.007		0.008		0.008	
CEMS lb/MMBtu	0.008		0.008		0.008		0.008		0.008		0.008		0.008		0.008		0.008	
Difference (lb/MMBtu)	0.000		-0.001		-0.001		-0.001		0.000		-0.001		-0.001		0.000		0.000	
Difference (%)	0.0%		-14.3%		-14.3%		-14.3%		0.0%		-14.3%		-14.3%		0.0%		0.0%	
F-Factor	8,710		8,710		8,710		8,710		8,710		8,710		8,710		8,710		8,710	
Load, MW	259.9		259.6		261.0		260.5		261.2		261.5		261.9		261.8		261.2	

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

TABLE 2
MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and After Each Test Day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and After Each Test Run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After Each Test Run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of Each Day	leak check	< 1 in. Hg decrease in 5 min. at > 20 in. Hg
Continuous Analyzers	Semi-Annually	3-point linearity	< 1% of analyzer range
NO_x Analyzer	Daily	NO_2 -> NO converter efficiency	> 90%
Differential Pressure Gauges (except for manometers)	Semi-Annually	Correction factor based on 5-point comparison to standard	± 5%
Differential Pressure Gauges (except for manometers)	Bi-Monthly	3-point comparison to standard, no correction factor	± 5%
Barometer	Semi-Annually	Adjusted to mercury-in-glass or National Weather Service Station	± 0.1 inches Hg
Dry Gas Meter	Semi-Annually	Calibration check at 4 flow rates using a NIST traceable standard	± 2%
Dry Gas Meter	Bi-Monthly	Calibration check at 2 flow rates using a NIST traceable standard	± 2% of semi-annual factor
Dry Gas Meter Orifice	Annually	4-point calibration for 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
STAC Certification

STACK TESTING ACCREDITATION COUNCIL

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 Certificates

Montrose Air Quality Services, LLC

AETB Qualified Individual Data

Source	Ormond Beach Unit 1
Test Date	6/11/2024
AETB Name	Montrose Air Quality Services, LLC.
AETB Phone Number	714-279-6777
AETB e-mail	qualitymanagement@montrose-env.com
QI Last Name	Peterson
QI First Name	John
QI Middle Initial	S.
QI Exam Date	February 4, 2022
Exam Provider	Source Evaluation Society
Exam Contact	gstiprogram@gmail.com

CERTIFICATE OF COMPLETION

John Peterson

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

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

Certificate Number: 002-2022-108

Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 10/17/2022

DATE OF EXPIRATION: 10/16/2027

MONTROSE ENVIRONMENTAL

CERTIFICATE OF COMPLETION

John Peterson

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

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

Certificate Number: 002-2022-40

Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 02/04/2022

DATE OF EXPIRATION: 02/03/2027

MONTROSE
ENVIRONMENTAL

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. John Peterson
Title:	Client Project Manager
Region:	West
Email:	AAleshaiker@montrose-env.com
Phone:	(714) 279-6777

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

V-CONE CALIBRATION REPORT

GenOn Ormond Beach

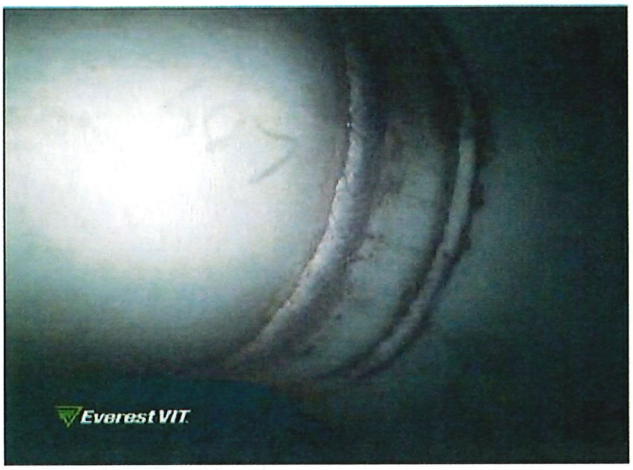
6635 South Edison Drive

Oxnard, CA. 93033

Unit 1

V-Cone Boroscope Inspection

March 12, 2024



Strut and Start of Flow Conditioner

V-Cone Mfg: McCrometer Serial Number: 92032631
Pipe Diameter 29.250 inch Cone Diameter 24.769 inch

Visual Contaminants & Surface	Clean	Slight	Heavy	Physical Damage
Point #1 Beta Edge	X			None Noted
Point #2 Rear Cone Face	X			None Noted
Point #3 Cone Suspension Strut		X		None Noted
Point #4 Flow Conditioner Face		X		None Noted
Point #5 Upstream Port	X			None Noted
Point #6 Downstream Port	X			None Noted

Inspection Start Time: 07:41 ML DST Inspection Completion Time: 14:45 ML DST

COMMENTS:

Boroscope revealed light contaminants on the front strut with very rasporadic spots on the pipe wall.The Beta region appears clean and clear. V-Cone element shows no physical damage, corrosion or obstructions. V-Cone flow conditioner reveals slight areas of contaminants, these spots should not effect the overall flow measurement. Sensing ports are clear and clean with thermowell being intact and clean. Welded rear cone segments beads are intact and secure. Spiral wound upstream flange gasket shows slight damage but not unattached from gasket ring.

RECOMMENDATIONS:

Rear Cone Face

Inspected by: Daryl T. Briscoe **Date** 03/12/2024

Certified Instrument Calibrations
616 South El Camino Real Suite G-4
San Clemente, Ca. 92672-3822
Phone (949) 413-8550

GENON
Ormond Beach Station LLC

Unit 1

V-Cone Calibration Report

Calibration Date: March 11, 2024

Certified Instrument Calibrations
616 South El Camino Real #G-4
San Clemente, CA.
92672-3822
Phone: (949) 413-8550

Ormond Beach Generating Station Unit #1
V-Cone System Information
March 11, 2024

Flow Computer Data

Manufacturer	ITT Barton
Model Number	1131 Scanner
Serial Number	002118
Board ID Number	10114204
Unit Node Name	OBGS_1
Software Version	NFlo M4.3.6R
ATOD System Voltage	4.99985
Input Battery Voltage	24.010

Flow Element Data

Type	V-Cone
Manufacturer	Ketema McCrometer
Tag Name / Number	1FE6500
Serial Number	92032631
Pipe Diameter D	29.250
Cone Diameter d	24.769
Beta	0.532
M	V0030

Transmitter Data

Tag Name	1TT-8331	1PT-8344	1FT-8350C	1FT-8350B	1FT-8350A
Resource	A05	A06	A07	A08	A09
Engineering Unit	Degrees F	Psig	Inches WC	Inches WC	Inches WC
Calibration Rang	15 - 115	0 - 100	0 - 125	0 - 24	0 - 4
Manufacturer	Rosemount	Rosemount	Rosemount	Rosemount	Rosemount
Model Number	3144D1NA	3051CG-4A	3051CD-2A	3051CD-1A	3051CD-1A
Serial Number	288665	667576	667574	667579	667578

Temperature Element Data

Manufacturer	ThermoElect
Type	J
Tag Number	1TE-8331
Model Number	SL-10655 U4 1/2
Serial Number	None
T/C Element Ser. #	None

NIST Traceable Instrument Used:

Control Number 23C1558

ID#	Serial #	Model #	Cal Date	Due Date	Description
CIC-7601	77601	760-6D	11/30/22	05/29/24	0 - 166.00 "H2O
Calibration Standard Used:					
01-726902-0000	Ruska Instruments, Model 6211-801-C				
02-472474-0000	Ruska Instruments, Model 2465-725				
CL-088757-0000	Ruska Instruments, Model 2462				
CL-471247-0000	Vaisala, Model DL2000				

CIC-7681	77681	760-18D	11/30/22	05/29/24	0 - 498.00 "H2O
Calibration Standard Used:					
CL-017275-0000	Ainsworth, Model 1254M				
02-472474-0000	Ruska Instruments, Model 2465-725				
CL-088757-0000	Ruska Instruments, Model 2462				
CL-471247-0000	Vaisala, Model DL2000				

CIC-9756	69756	760-200G	11/30/22	05/29/24	0 - 200 PSIG
Calibration Standard Used:					
CL-088757-0000	Ruska Instruments, Model 2462				
CL-387004-0000	Ruska Instruments, Model 2645-727				
CL-408461-0000	Ruska Instruments, Model 2460-903				
CL-471247-0000	Vaisala, Model DL2000				

CIC-4283	A14283	1504/5610	12/02/22	05/31/24	0 to 100 Degree C
Calibration Standard Used:					
22-007978-0000	Fluke, Model 1595A				
CL-470663-0000	Vaisala, Model SP-2000-20R				

CIC-8019	1378019	Fluke 8245A	11/22/22	05/21/24	Digital DMM
Calibration Standard Used:					
CL-470177-0000	Vaisala, Model DL-2000				
CL-451043-0000	Fluke, Model 5725A				

Calibration Traceable to the National Institute of Standards and Technology (N.I.S.T.)
Actual calibration certificates are on file with Certified Instrument Calibrations Company and copies may be obtained by request.

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Monday, March 11, 2024 at 08:02 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Monday, March 11, 2024 at 07:35 (ML).
Verification completed: Monday, March 11, 2024 at 08:02 (ML).
Verification done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #23
Channel category Differential Pressure
Channel text 1FT-8350A
Xmitter zero 0.000 Inch WC
Xmitter fullscale 4.000 Inch WC
Unit Temperature Celsius
Number of verification points: 5 (Up/Down)

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	0.000	Start	0.000
2.000	2.011	Ascending	0.275
4.000	4.000	Ascending	0.000
3.000	3.019	Descending	0.475
1.000	1.006	Descending	0.150

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Monday, March 11, 2024 at 08:58 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Monday, March 11, 2024 at 08:29 (ML).
Verification completed: Monday, March 11, 2024 at 08:58 (ML).
Verification done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #21
Channel category Differential Pressure
Channel text 1FT-8350B
Xmitter zero 0.000 Inch WC
Xmitter fullscale 24.000 Inch WC
Unit Temperature Celsius
Number of verification points: 5 (Up/Down)

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.003	Start	-0.013
12.000	11.990	Ascending	-0.042
24.000	23.999	Ascending	-0.004
18.000	18.009	Descending	0.038
6.000	5.990	Descending	-0.042

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Monday, March 11, 2024 at 09:55 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Monday, March 11, 2024 at 09:27 (ML).
Verification completed: Monday, March 11, 2024 at 09:55 (ML).
Verification done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #19
Channel category Differential Pressure
Channel text 1FT-8350C
Xmitter zero 0.000 Inch WC
Xmitter fullscale 125.000 Inch WC
Unit Temperature Celsius
Number of verification points: 5 (Up/Down)

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.006	Start	-0.005
62.500	62.592	Ascending	0.074
125.000	125.003	Ascending	0.002
93.750	93.813	Descending	0.050
31.250	31.289	Descending	0.031

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Monday, March 11, 2024 at 11:07 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Monday, March 11, 2024 at 10:26 (ML).
Verification completed: Monday, March 11, 2024 at 11:07 (ML).
Verification done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #15
Channel category Static Pressure
Channel text 1PT-8344
Xmitter zero 0.000 psi(a)
Xmitter fullscale 100.000 psi(a)
Unit Temperature Celsius
Number of verification points: 5 (Up/Down)

Verification Point psi(a)	As Found psi(a)	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.028	Start	-0.028
50.000	49.967	Ascending	-0.033
100.000	99.968	Ascending	-0.032
75.000	74.958	Descending	-0.042
25.000	24.972	Descending	-0.028

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Monday, March 11, 2024 at 13:41 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Monday, March 11, 2024 at 11:43 (ML).
Verification completed: Monday, March 11, 2024 at 13:41 (ML).
Verification done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #17
Channel category Temperature
Channel text 1TT-8331
Xmitter zero 15.000 Fahrenheit
Xmitter fullscale 115.000 Fahrenheit
Unit Temperature Celsius
Number of verification points: 5 (Up)

Verification Point Fahrenheit	As Found Fahrenheit	Direction	Percent Accuracy (% of Full-Scale)
15.000	14.854	Start	-0.146
40.000	39.934	Ascending	-0.066
65.000	65.025	Ascending	0.025
90.000	90.052	Ascending	0.052
115.000	115.109	Ascending	0.109

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Monday, March 11, 2024 at 08:29 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Monday, March 11, 2024 at 08:02 (ML).
Calibration completed: Monday, March 11, 2024 at 08:29 (ML).
Calibration done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #23
Channel category Differential Pressure
Channel text 1FT-8350A
Xmitter zero 0.000 Inch WC
Xmitter fullscale 4.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	-0.002	0.000	0.000
2.000	2.010	2.006	0.150
4.000	3.949	4.000	0.000
3.000	2.994	3.007	0.175
1.000	1.006	1.003	0.075

High Pressure Zero : 0.8111 mV (As Found)
: 0.6667 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Monday, March 11, 2024 at 09:27 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Monday, March 11, 2024 at 08:58 (ML).
Calibration completed: Monday, March 11, 2024 at 09:27(ML).
Calibration done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #21
Channel category Differential Pressure
Channel text 1FT-8350B
Xmitter zero 0.000 Inch WC
Xmitter fullscale 24.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	-0.004	0.000	0.000
12.000	11.999	12.001	0.004
24.000	24.006	24.000	0.000
18.000	18.004	18.002	0.008
6.000	5.997	5.998	-0.008

High Pressure Zero : -0.3067 mV (As Found)
: -0.1263 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Monday, March 11, 2024 at 10:26 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Monday, March 11, 2024 at 09:55 (ML).
Calibration completed: Monday, March 11, 2024 at 10:26 (ML).
Calibration done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #19
Channel category Differential Pressure
Channel text 1FT-8350C
Xmitter zero 0.000 Inch WC
Xmitter fullscale 125.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	0.035	0.000	0.000
62.500	62.601	62.510	0.008
125.000	125.025	125.000	0.000
93.750	93.808	93.746	-0.003
31.250	31.295	31.241	-0.007

High Pressure Zero : -0.2525 mV (As Found)
: 0.6489 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Monday, March 11, 2024 at 11:43 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Monday, March 11, 2024 at 11:07 (ML).
Calibration completed: Monday, March 11, 2024 at 11:43 (ML).
Calibration done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #15
Channel category Static Pressure
Channel text 1PT-8344
Xmitter zero 0.000 psi(a)
Xmitter fullscale 100.000 psi(a)
Number of calibration points: 5 (Up/Down)

Calibration Point psi(a)	As Found psi(a)	As Left psi(a)	Calibration Percent Accuracy
0.000	-0.025	0.000	0.000
50.000	49.968	50.000	0.000
100.000	99.966	100.000	0.000
75.000	74.969	75.003	0.003
25.000	24.964	24.996	-0.004

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Monday, March 11, 2024 at 15:50 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Monday, March 11, 2024 at 13:42 (ML).
Calibration completed: Monday, March 11, 2024 at 15:50 (ML).
Calibration done by: Non-Login

This input has been assigned to:
Node : OBGS_1, Flowrun #01 (OBGS_1)

Channel location : Node OBGS_1, Slot A, Resource #17
Channel category Temperature
Channel text 1TT-8331
Xmitter zero 15.000 Fahrenheit
Xmitter fullscale 115.000 Fahrenheit
Number of calibration points: 5 (Up)

Calibration Point Fahrenheit	As Found Fahrenheit	As Left Fahrenheit	Calibration Percent Accuracy
15.000	14.847	15.000	0.000
40.000	39.998	40.000	0.000
65.000	65.043	65.000	0.000
90.000	90.066	90.000	0.000
115.000	115.097	115.000	0.000

Control Number 23C1558

GenOn Ormond Beach

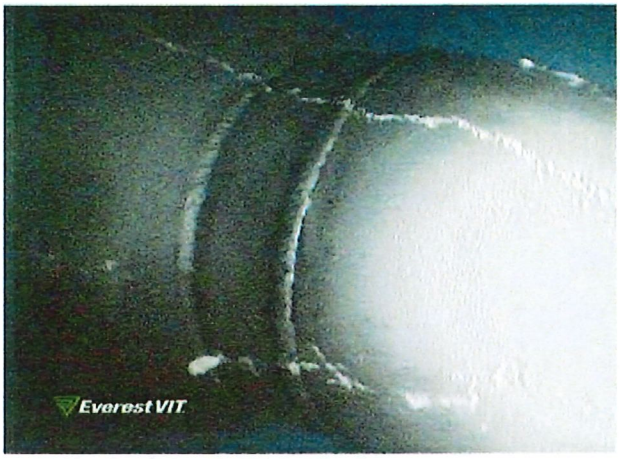
6635 South Edison Drive

Oxnard, CA. 93033

Unit 2

V-Cone Boroscope Inspection

March 14, 2024



Strut and Start of Flow Conditioner

V-Cone Mfg: McCrometer Serial Number: 92032632
Pipe Diameter 29.250 inch Cone Diameter 24.769 inch

Visual Contaminants & Surface	Clean	Slight	Heavy	Physical Damage
Point #1 Beta Edge	X			None Noted
Point #2 Rear Cone Face		X		None Noted
Point #3 Cone Suspension Strut		X		None Noted
Point #4 Flow Conditioner Face		X		None Noted
Point #5 Upstream Port	X			None Noted
Point #6 Downstream Port	X			None Noted

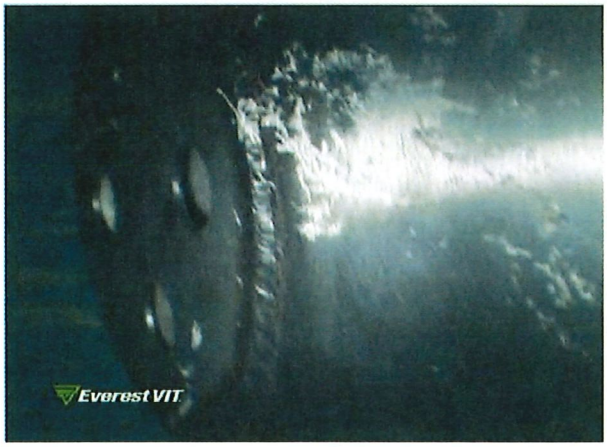
Inspection Start Time: 07:45 ML DST Inspection Completion Time: 16:15 ML DST

COMMENTS:

Boroscope revealed valve grease (white) on the front strut, flow conditioner and internal pipe walls.These areas of valve grease have been shredded before the Beta Region.The element shows no notable physical damage, corrosion or obstructions. The rear cone face revealed areas of grease spots including inside lower ring lip ledge. Beta region is clear with the exception of streaks of grease residual on the pipe wall and through the trailing edge of rear cone face.No obstructions were observed with welds found intact and secure, sensing lines also found clear.

RECOMMENDATIONS:

Continue to monitor grease accumulation in vital areas as a concern.Grease accumulation not significantly greater since inspection of last year. McCrometer V-Cone designed to shred contaminants away from measuring section.



Rear Cone Face

Inspected by: Daryl T. Briscoe **Date:** 03/14/2024

Certified Instrument Calibrations

Phone (949) 413-8550

GENON
Ormond Beach Station LLC

Unit 2

V-Cone Calibration Report

Calibration Date: March 13, 2024

Certified Instrument Calibrations
616 South El Camino Real #G-4
San Clemente, CA.
92672-3822
Phone: (949) 413-8550

Ormond Beach Generating Station Unit #2
V-Cone System Information
March 13, 2024

Flow Computer Data

Manufacturer	ITT Barton
Model Number	1131 Scanner
Serial Number	002119
Board ID Number	10114195
Unit Node Name	OBGS_2
Software Version	NFlo M4.3.6R
ATOD System Voltage	5.00082
Input Battery Voltage	24.000

Flow Element Data

Type	V-Cone
Manufacturer	Ketema McCrometer
Tag Name / Number	2FE6500
Serial Number	92032632
Pipe Diameter D	29.250
Cone Diameter d	24.769
Beta	0.535
M	V0030

Transmitter Data

Tag Name	2TT-8331	2PT-8344	2FT-8350C	2FT-8350B	2FT-8350A
Resource	A05	A06	A07	A08	A09
Engineering Unit	Degrees F	Psig	Inches WC	Inches WC	Inches WC
Calibration Rang	15 - 115	0 - 100	0 - 125	0 - 24	0 - 4
Manufacturer	Rosemount	Rosemount	Rosemount	Rosemount	Rosemount
Model Number	3144D1NA	3051CG-4A	3051CD-2A	3051CD-1A	3051CD-1A
Serial Number	288666	667577	667575	667580	1236482

Temperature Element Data

Manufacturer	Telmar
Type	"J"
Tag Number	2TE-8331
Model Number	570166
Serial Number	10 06 01908
T/C Element Ser. #	MI7573JUL6X12PM30

NIST Traceable Instrument Used:

Control Number 23C1558

ID#	Serial #	Model #	Cal Date	Due Date	Description
CIC-7601	77601	760-6D	11/30/22	05/29/24	0 - 166.00 "H2O
Calibration Standard Used:					
01-726902-0000	Ruska Instruments, Model 6211-801-C				
02-472474-0000	Ruska Instruments, Model 2465-725				
CL-088757-0000	Ruska Instruments, Model 2462				
CL-471247-0000	Vaisala, Model DL2000				

CIC-7681	77681	760-18D	11/30/22	05/29/24	0 - 498.00 "H2O
Calibration Standard Used:					
CL-017275-0000	Ainsworth, Model 1254M				
02-472474-0000	Ruska Instruments, Model 2465-725				
CL-088757-0000	Ruska Instruments, Model 2462				
CL-471247-0000	Vaisala, Model DL2000				

CIC-9756	69756	760-200G	11/30/22	05/29/24	0 - 200 PSIG
Calibration Standard Used:					
CL-088757-0000	Ruska Instruments, Model 2462				
CL-387004-0000	Ruska Instruments, Model 2645-727				
CL-408461-0000	Ruska Instruments, Model 2460-903				
CL-471247-0000	Vaisala, Model DL2000				

CIC-4283	A14283	1504/5610	12/02/22	05/31/24	0 to 100 Degree C
Calibration Standard Used:					
22-007978-0000	Fluke, Model 1595A				
CL-470663-0000	Vaisala, Model SP-2000-20R				

CIC-8019	1378019	Fluke 8245A	11/22/22	05/21/24	Digital DMM
Calibration Standard Used:					
CL-470177-0000	Vaisala, Model DL-2000				
CL-451043-0000	Fluke, Model 5725A				

Calibration Traceable to the National Institute of Standards and Technology (N.I.S.T.)
Actual calibration certificates are on file with Certified Instrument Calibrations Company and copies may be obtained by request.

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, March 13, 2024 at 07:16 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started : Wednesday, March 13, 2024 at 06:48 (ML)
Verification completed: Wednesday, March 13, 2024 at 07:16 (ML)
Verification done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #23
Channel category Differential Pressure
Channel text 2FT-8350A
Xmitter zero 0.000 Inch WC
Xmitter fullscale 4.000 Inch WC
Number of verification points: 5

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.037	Start	-0.925
2.000	1.982	Ascending	-0.450
4.000	3.986	Ascending	-0.350
3.000	2.985	Descending	-0.375
1.000	0.966	Descending	-0.850

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, March 13, 2024 at 08:18 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, March 13, 2024 at 07:47 (ML)
Verification completed: Wednesday, March 13, 2024 at 08:18 (ML)
Verification done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #21
Channel category Differential Pressure
Channel text 2FT-8350B
Xmitter zero 0.000 Inch WC
Xmitter fullscale 24.000 Inch WC
Number of verification points: 5

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.005	Start	-0.021
12.000	11.989	Ascending	-0.046
24.000	24.031	Ascending	0.129
18.000	18.036	Descending	0.150
6.000	5.982	Descending	-0.075

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, March 13, 2024 at 09:25 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, March 13, 2024 at 08:51 (ML)
Verification completed: Wednesday, March 13, 2024 at 09:25 (ML)
Verification done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #19
Channel category Differential Pressure
Channel text 2FT-8350C
Xmitter zero 0.000 Inch WC
Xmitter fullscale 125.000 Inch WC
Number of verification points: 5

Verification Point Inch WC	As Found Inch WC	Direction	Percent Accuracy (% of Full-Scale)
0.000	-0.050	Start	-0.040
62.500	62.457	Ascending	-0.034
125.000	124.958	Ascending	-0.034
93.750	93.737	Descending	-0.010
31.250	31.219	Descending	-0.025

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, March 13, 2024 at 10:34 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, March 13, 2024 at 10:02 (ML)
Verification completed: Wednesday, March 13, 2024 at 10:34 (ML)
Verification done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #15
Channel category Static Pressure
Channel text 2PT-8344
Xmitter zero 0.000 psi(a)
Xmitter fullscale 100.000 psi(a)
Number of verification points: 5

Verification Point psi(a)	As Found psi(a)	Direction	Percent Accuracy (% of Full-Scale)
0.000	0.435	Start	0.435
50.000	50.453	Ascending	0.453
100.000	100.472	Ascending	0.472
75.000	75.472	Descending	0.472
25.000	25.479	Descending	0.479

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, March 13, 2024 at 12:44 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, March 13, 2024 at 10:59 (ML)
Verification completed: Wednesday, March 13, 2024 at 12:44 (ML)
Verification done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #17
Channel category Temperature
Channel text 2TT-8331
Xmitter zero 15.000 Fahrenheit
Xmitter fullscale 115.000 Fahrenheit
Number of verification points: 5

Verification Point Fahrenheit	As Found Fahrenheit	Direction	Percent Accuracy (% of Full-Scale)
15.000	15.228	Start	0.228
40.000	40.133	Ascending	0.133
65.000	65.189	Ascending	0.189
90.000	90.254	Ascending	0.254
115.000	115.250	Ascending	0.250

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, March 13, 2024 at 07:47 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, March 13, 2024 at 07:16 (ML)
Calibration completed: Wednesday, March 13, 2024 at 07:47 (ML)
Calibration done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #23
Channel category Differential Pressure
Channel text 2FT-8350A
Xmitter zero 0.000 Inch WC
Xmitter fullscale 4.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	-0.036	0.000	0.000
2.000	1.980	1.990	-0.250
4.000	3.987	4.000	0.000
3.000	2.986	3.025	0.625
1.000	0.968	1.016	0.400

High Pressure Zero : 5.0789 mV (As Found)
: -9.6889 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, March 13, 2024 at 08:51 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, March 13, 2024 at 08:18 (ML)
Calibration completed: Wednesday, March 13, 2024 at 08:51 (ML)
Calibration done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #21
Channel category Differential Pressure
Channel text 2FT-8350B
Xmitter zero 0.000 Inch WC
Xmitter fullscale 24.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	0.002	0.000	0.000
12.000	11.883	11.955	-0.188
24.000	23.953	24.000	0.000
18.000	17.960	18.019	0.079
6.000	5.988	6.026	0.108

High Pressure Zero : 0.5238 mV (As Found)
: 1.4808 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, March 13, 2024 at 10:02 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, March 13, 2024 at 09:25 (ML)
Calibration completed: Wednesday, March 13, 2024 at 10:02 (ML)
Calibration done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #19
Channel category Differential Pressure
Channel text 2FT-8350C
Xmitter zero 0.000 Inch WC
Xmitter fullscale 125.000 Inch WC
Number of calibration points: 5 (Up/Down)

Calibration Point Inch WC	As Found Inch WC	As Left Inch WC	Calibration Percent Accuracy
0.000	-0.030	0.000	0.000
62.500	62.427	62.490	-0.008
125.000	124.958	125.000	0.000
93.750	93.700	93.755	0.004
31.250	31.206	31.254	0.003

High Pressure Zero : -0.8129 mV (As Found)
: - 0.0542 mV (As Left)
Span Compensation Factor : 0.0000 % / MPag (As Found)
: 0.0000 % / MPag (As Left)

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, March 13, 2024 at 10:59 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, March 13, 2024 at 10:34 (ML)
Calibration completed: Wednesday, March 13, 2024 at 10:59 (ML)
Calibration done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location Node OBGS_2, Slot A, Resource #15
Channel category Static Pressure
Channel text 2PT-8344
Xmitter zero 0.000 psi(a)
Xmitter fullscale 100.000 psi(a)
Number of calibration points: 5 (Up/Down)

Calibration Point psi(a)	As Found psi(a)	As Left psi(a)	Calibration Percent Accuracy
0.000	0.459	0.000	0.000
50.000	50.455	49.995	-0.005
100.000	100.415	100.000	0.000
75.000	75.472	75.017	0.017
25.000	25.452	24.999	-0.001

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, March 13, 2024 at 14:40 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, March 13, 2024 at 12:44 (ML)
Calibration completed: Wednesday, March 13, 2024 at 14:40 (ML)
Calibration done by: Cert-Inst-Cals

This input has been assigned to:
Node : OBGS_2, Flowrun #01 (OBGS_2)

Channel location	Node OBGS_2, Slot A, Resource #17
Channel category	Temperature
Channel text	2TT-8331
Xmitter zero	15.000 Fahrenheit
Xmitter fullscale	115.000 Fahrenheit

Number of calibration points: 5 (Up)

Calibration Point Fahrenheit	As Found Fahrenheit	As Left Fahrenheit	Calibration Percent Accuracy
15.000	15.071	15.000	0.000
40.000	39.986	40.000	0.000
65.000	65.023	65.000	0.000
90.000	90.175	90.000	0.000
115.000	115.254	115.000	0.000

Control Number 23C1558

LINEARITY REPORT

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2024 00:00 Through 09/06/2024 23:59

Source: ORB1
Parameter: NOXHI
System ID: 101
Component ID: 015
Span Value: 250.000
Span Scale Code: H

Test End Date/Time: 09/06/24 06:55
Test Number: XML (015-Q3-2024-1) / EDR (1)
Reason for Test: Periodic Quality Assurance
Test Result: Pass
Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Low-Level				
09/06/24 06:23	59.600	60.000	-0.400	0.7
09/06/24 06:35	59.600	60.100	-0.500	0.8
09/06/24 06:47	59.600	60.000	-0.400	0.7

Reference Mean: 59.600
Measured Mean: 60.033
Level Error: 0.7
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: B32018
Cylinder #: CC215900
Cylinder Exp. Date: 12/19/2026

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Mid-Level				
09/06/24 06:27	128.400	128.800	-0.400	0.3
09/06/24 06:39	128.400	128.900	-0.500	0.4
09/06/24 06:51	128.400	128.500	-0.100	0.1

Reference Mean: 128.400
Measured Mean: 128.733
Level Error: 0.3
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: B32019
Cylinder #: CC91055
Cylinder Exp. Date: 04/19/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
High-Level				
09/06/24 06:31	223.000	223.300	-0.300	0.1
09/06/24 06:43	223.000	223.300	-0.300	0.1
09/06/24 06:55	223.000	223.100	-0.100	0.0

Reference Mean: 223.000
Measured Mean: 223.233
Level Error: 0.1
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: F22020
Cylinder #: CC244312
Cylinder Exp. Date: 10/06/2028

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2024 00:00 Through 09/06/2024 23:59

Source: ORB1
Parameter: O2HI
System ID: 101
Component ID: 016
Span Value: 20.000
Span Scale Code: H

Test End Date/Time: 09/06/24 08:38
Test Number: XML (016-Q3-2024-1) / EDR (1)
Reason for Test: Periodic Quality Assurance
Test Result: Pass
Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Low-Level				
09/06/24 08:22	5.500	5.500	0.000	0.0
09/06/24 08:28	5.500	5.500	0.000	0.0
09/06/24 08:34	5.500	5.500	0.000	0.0

Reference Mean: 5.500
Measured Mean: 5.500
Level Error: 0.0
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: B32019
Cylinder #: CC195272
Cylinder Exp. Date: 07/23/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Mid-Level				
09/06/24 08:24	11.100	11.100	0.000	0.0
09/06/24 08:30	11.100	11.100	0.000	0.0
09/06/24 08:36	11.100	11.100	0.000	0.0

Reference Mean: 11.100
Measured Mean: 11.100
Level Error: 0.0
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: B32019
Cylinder #: CC338195
Cylinder Exp. Date: 08/05/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
High-Level				
09/06/24 08:26	18.100	18.200	-0.100	0.6
09/06/24 08:32	18.100	18.200	-0.100	0.6
09/06/24 08:38	18.100	18.200	-0.100	0.6

Reference Mean: 18.100
Measured Mean: 18.200
Level Error: 0.6
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: F22020
Cylinder #: SA11523
Cylinder Exp. Date: 12/09/2028

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2024 00:00 Through 09/05/2024 23:59

Source: ORB2
Parameter: NOXHI
System ID: 201
Component ID: 025
Span Value: 250.000
Span Scale Code: H

Test End Date/Time: 09/05/24 06:28
Test Number: XML (025-Q3-2024-1) / EDR (1)
Reason for Test: Periodic Quality Assurance
Test Result: Pass
Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Low-Level				
09/05/24 06:04	59.600	57.600	2.000	3.4
09/05/24 06:13	59.600	58.300	1.300	2.2
09/05/24 06:22	59.600	59.300	0.300	0.5

Reference Mean: 59.600
Measured Mean: 58.400
Level Error: 2.0
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: B32018
Cylinder #: CC215900
Cylinder Exp. Date: 12/19/2026

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Mid-Level				
09/05/24 06:07	128.400	128.500	-0.100	0.1
09/05/24 06:16	128.400	127.800	0.600	0.5
09/05/24 06:25	128.400	128.000	0.400	0.3

Reference Mean: 128.400
Measured Mean: 128.100
Level Error: 0.2
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: B32019
Cylinder #: CC91055
Cylinder Exp. Date: 04/19/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
High-Level				
09/05/24 06:10	223.000	223.200	-0.200	0.1
09/05/24 06:19	223.000	223.500	-0.500	0.2
09/05/24 06:28	223.000	223.600	-0.600	0.3

Reference Mean: 223.000
Measured Mean: 223.433
Level Error: 0.2
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: F22020
Cylinder #: CC244312
Cylinder Exp. Date: 10/06/2028

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2024 00:00 Through 09/05/2024 23:59

Source: ORB2
Parameter: O2HI
System ID: 201
Component ID: 026
Span Value: 20.000
Span Scale Code: H

Test End Date/Time: 09/05/24 08:43
Test Number: XML (026-Q3-2024-1) / EDR (1)
Reason for Test: Periodic Quality Assurance
Test Result: Pass
Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Low-Level				
09/05/24 08:19	5.500	5.400	0.100	1.8
09/05/24 08:28	5.500	5.400	0.100	1.8
09/05/24 08:37	5.500	5.400	0.100	1.8

Reference Mean: 5.500
Measured Mean: 5.400
Level Error: 1.8
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: B32019
Cylinder #: CC195272
Cylinder Exp. Date: 07/23/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
Mid-Level				
09/05/24 08:22	11.100	10.900	0.200	1.8
09/05/24 08:31	11.100	10.900	0.200	1.8
09/05/24 08:40	11.100	10.900	0.200	1.8

Reference Mean: 11.100
Measured Mean: 10.900
Level Error: 1.8
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: B32019
Cylinder #: CC338195
Cylinder Exp. Date: 08/05/2027

Injection Time	Reference Value	Measured Value	Difference	% of Reference
High-Level				
09/05/24 08:25	18.100	18.100	0.000	0.0
09/05/24 08:34	18.100	18.100	0.000	0.0
09/05/24 08:43	18.100	18.100	0.000	0.0

Reference Mean: 18.100
Measured Mean: 18.100
Level Error: 0.0
APS Indicator: False
Gas Type Code: BALN,O2
Vendor Identifier: F22020
Cylinder #: SA11523
Cylinder Exp. Date: 12/09/2028