



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

February 12, 2024

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

**RE: 2023 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 2023 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, 2023, through December 31, 2023, and the deviation report for the period July 01, 2023, through December 31, 2023.

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.

<p>Signature and Title of Responsible Official:</p>  <p>Title: Plant Manager - Ormond Beach Power, LLC Ormond Beach Generating Station</p>	<p>Date:</p> <p><i>2-9-2024</i></p>
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Time Period Covered by Compliance Certification

01 / 01 / 2023 (MM/DD/YY) to 12 / 31 / 2023 (MM/DD/YY)



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

<p>A. Attachment # or Permit Condition #: Attachment 59N1, Condition #1</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records and Emission Calculations</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

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

<p>A. Attachment # or Permit Condition #: Attachment 59N1, Condition #3</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>B. Description: NH3 Emissions The Annual Ammonia Slip test for Unit 2 was conducted on May 23, 2023 and the average ammonia slip result was 2.3 ppm @ 3% O₂, which is within the 10 ppmv limit. No Annual Ammonia Slip test was required for Unit 1 due to insufficient quarterly operating hours.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable BAAQMD method ST-1B dated 01/20/1982</p>
<p>C. Method of monitoring: Source Testing</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



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Ormond Beach Generating Station

<p>A. Attachment # or Permit Condition #: Attachment 59N1, Condition #4</p>	<p>D. Frequency of monitoring:</p>
<p>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.</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records and Operator Logs</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment 59N1, Condition #5</p>	<p>D. Frequency of monitoring:</p>
<p>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 12/17/2023 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.</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records, physical inspection, and Emission Calculations</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment 59N1, Conditions #6 & #7</p>	<p>D. Frequency of monitoring:</p>
<p>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.</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records and Operator Logs</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Attachment 59N3, Condition #1</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description: NOx Limits (Aux Boilers) 0.040 lbs/MMBTU There were no Auxiliary Boiler exceedances in 2023.</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records and Emission Calculations</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment 59N3, Condition #2</p>	<p>D. Frequency of monitoring:</p>
<p>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.</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Records and Operator Logs</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

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



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

<p>A. Attachment # or Permit Condition #: Attachment 74.9N7 , Conditions #1 - #4</p>	<p>D. Frequency of monitoring:</p>
<p>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 admin building. Condition 4 - Calendar year hours of maintenance and operation are reported by Feb 15.</p>	<p>Periodic</p>
<p>C. Method of monitoring: Maintenance and Operating Logs</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment ATCM Engine N2, Conditions #1 - #3</p>	<p>D. Frequency of monitoring:</p>
<p>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</p>	<p>Periodic</p>
<p>C. Method of monitoring: Purchase Records and Operation Log</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>



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<p>A. Attachment # or Permit Condition #: Attachment RICE MACT, Conditions #1 - #2</p>	<p>D. Frequency of monitoring:</p> <p style="margin-left: 20px;">Periodic</p>
<p>B. Description: Maintenance and Operation Recordkeeping</p> <p>Condition 1 – Engines inspected, serviced and oil changed annually or every 500 hours</p> <p>Condition 2 – Operated according to manufacturer specifications</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="margin-left: 20px;">N/A</p>
<p>C. Method of monitoring: Generator Service Report</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p style="margin-left: 20px;">*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment RICE MACT, Conditions #3 - #9</p>	<p>D. Frequency of monitoring:</p> <p style="margin-left: 20px;">Continuous</p>
<p>B. Description: Operation Recordkeeping</p> <p>Condition 3 – The engine is equipped with a non-resettable timer</p> <p>Condition 4 – Engine idle time is restricted to less than 30 minutes per event</p> <p>Condition 5-9 – Operation is limited to less than the 100 hours and in compliance with 40 CFR part 63, Subpart ZZZZ (RICE MACT).</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="margin-left: 20px;">N/A</p>
<p>C. Method of monitoring: Maintenance and Operation Log</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p style="margin-left: 20px;">*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment 103N1-65, Conditions #1 - #3</p>	<p>D. Frequency of monitoring:</p> <p style="margin-left: 20px;">Continuous</p>
<p>B. Description: Continuous Monitoring Systems</p> <p>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.</p> <p>Condition 3 - Monitored violations are reported to the District within 96 hours of each occurrence pursuant with Rule 103.B.1.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p style="margin-left: 20px;">N/A</p>
<p>C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p style="margin-left: 20px;">*If yes, attach Deviation Summary Form</p>



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Ormond Beach Generating Station

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

<p>A. Attachment # or Permit Condition #: Attachment 103N3-65, Conditions #1 - #3</p>	<p>D. Frequency of monitoring:</p> <p style="text-align: center;">Continuous</p>
<p>B. Description: Continuous Monitoring Systems</p> <p>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.</p> <p>Condition 3 – Monitored violations are reported to the District within 96 hours of each occurrence pursuant with Rule 103.B.1.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CEMs Inspection, Maintenance, Testing, and Reporting Records</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>



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

<p>A. Attachment # or Permit Condition #: PO00065PC1-231, Conditions #1 - #2</p>	<p>D. Frequency of monitoring:</p> <p>Continuous</p>
<p>B. Description: General Recordkeeping Requirements and Solvent Cleaning Additional Requirements</p> <p>Condition 1 - Monthly record-keeping of permitted throughput and consumption are maintained onsite.</p> <p>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 onsite.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p>N/A</p>
<p>C. Method of monitoring: Rules 26 and 29 Fuel Throughput/Consumption and Rule 29 Solvent Usage Records</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

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



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

<p>A. Attachment # or Permit Condition #: Attachment 54.B.1, Conditions #1 - #3</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description: Sulfur Compounds</p> <p>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.</p>	<p>Annually</p>
<p>C. Method of monitoring: Natural Gas Analyses for Sulfur</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment 54.B.2, Conditions #1 - #3</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description: Sulfur Compounds Ground Level</p> <p>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 Nov. 7, 2023 confirms compliance.</p>	<p>Annually</p>
<p>C. Method of monitoring: Recordkeeping, Natural Gas Analyses for Sulfur and Modeling Demonstration</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>



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

<p>A. Attachment # or Permit Condition #: Attachment 57.1, Conditions #1 - #2</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Rule 57.B District Analysis</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u> G. Compliance Status? (C or I): <u> C </u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u> *If yes, attach Deviation Summary Form</p>

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



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

<p>A. Attachment # or Permit Condition #: Attachment 64.B.2, Conditions #1 - #3</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: CARB Diesel Fuel Delivery Records</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

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

<p>A. Attachment # or Permit Condition #: Attachment 74.11.1, Conditions #1 - #4</p>	<p>D. Frequency of monitoring: N/A</p>
<p>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, consequently, Rule 74.11.1 is not applicable.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Equipment Design Record Review - Permit Condition Not Currently Applicable</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

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

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

<p>A. Attachment # or Permit Condition #: Attachment 74.2, Conditions #1 - #6</p>	<p>D. Frequency of monitoring:</p>
<p>B. Description: Architectural Coatings</p> <p>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.</p>	<p>Continuous</p>
<p>C. Method of monitoring: Routine Surveillance of GenOn Paint Usage and Activity Records. Contractor maintains their own permit with the District</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p>N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u>Y</u></p> <p>G. Compliance Status? (C or I): <u>C</u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u></p> <p>*If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

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

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

<p>A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #1 - #4</p>	<p>D. Frequency of monitoring:</p>
<p>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</p>	<p>Continuous</p>
	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Title V Reports and Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u> G. Compliance Status? (C or I): <u> C </u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

<p>A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #5</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Title V Reports and Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #6 - #7</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Title V Reports and Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #8 - #10</p>	<p>D. Frequency of monitoring: Continuous</p>
<p>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.</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
<p>C. Method of monitoring: Title V Reports and Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u>Y</u> G. Compliance Status? (C or I): <u>C</u> H. *Excursions, exceedances, or other non-compliance? (Y or N): <u>N</u> *If yes, attach Deviation Summary Form</p>



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

<p>A. Attachment # or Permit Condition #: Attachment Part 70 General, Conditions #11 - #15</p>	<p>D. Frequency of monitoring:</p> <p>Continuous</p>
<p>B. Description: General Part 70 Permit Conditions</p> <p>Condition 11 - Facility recognizes that the permit does not provide any specific property rights</p> <p>Condition 12 - Facility recognizes that the permit provisions are severable.</p> <p>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</p> <p>Condition 14 - Facility recognizes that any document submitted on behalf of this permit must be certified by a responsible official</p> <p>Condition 15 - Facility submits a certification of compliance with all applicable requirements to the District and EPA on an annual basis</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p>N/A</p>
<p>C. Method of monitoring: Title V Reports and Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

<p>A. Attachment # or Permit Condition #: Attachment PO General, Conditions #1 - #2</p>	<p>D. Frequency of monitoring:</p> <p>Continuous</p>
<p>B. Description: General Permit to Operate Conditions</p> <p>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</p> <p>Condition 2 - Facility maintains copies of the permit reasonably close to the equipment and readily accessible for District review</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable</p> <p>N/A</p>
<p>C. Method of monitoring: Periodic Review of Requirements</p>	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

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



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

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

<p>A. Attachment # or Permit Condition #: Attachment 40CFR68RMP-65</p>	<p>D. Frequency of monitoring:</p>
<p>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).</p>	<p>Annually</p>
<p>C. Method of monitoring: Risk Management Plan Documentation and Review</p>	<p>E. Source test reference method, if applicable. Attach Source Test Summary Form, if applicable N/A</p>
	<p>F. Currently in Compliance? (Y or N): <u> Y </u></p> <p>G. Compliance Status? (C or I): <u> C </u></p> <p>H. *Excursions, exceedances, or other non-compliance? (Y or N): <u> N </u></p> <p>*If yes, attach Deviation Summary Form</p>

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



ANNUAL COMPLIANCE CERTIFICATION PERMIT ATTACHMENT FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) to 12/31/23 (MM/DD/YY)

Ormond Beach Generating Station

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

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

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



Ventura County
Air Pollution
Control District

ANNUAL COMPLIANCE CERTIFICATION

SOURCE TEST SUMMARY FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) 12/31/23 (MM/DD/YY)

A. Emission Unit Description: Ormond Beach Unit 1			B. Pollutant: NO _x
C. Measured Emission Rate: Insufficient 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 1			B. Pollutant: NH ₃
C. Measured Emission Rate: Insufficient 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:

A. Emission Unit Description: Ormond Beach Unit 2			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: 05/23/2023

A. Emission Unit Description: Ormond Beach Unit 2			B. Pollutant: NH ₃
C. Measured Emission Rate: 2.3 @ 3% O ₂	D. Limited Emission Rate: 10 ppmv	E. Specific Source Test or Monitoring Record Citation: Attachment 59N1, Condition 3	F. Test Date: 05/23/2023



ANNUAL COMPLIANCE CERTIFICATION DEVIATION SUMMARY FORM

Period Covered by Compliance Certification: 01/01/23 (MM/DD/YY) 12/31/23 (MM/DD/YY)

A. Attachment # or Permit Condition #: There were no deviations in 2023	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:

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:

2023
ANNUAL COMPLIANCE CERTIFICATION
ATTACHMANTS

ORMOND BEACH GENERATING STATION
PERMIT NO. 00065

AMMONIA SLIP TEST

TEST REPORT FOR 2023 ANNUAL AMMONIA SLIP TEST AT ORMOND BEACH POWER, LLC UNIT 2

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

Matt McCune

Test Date: **May 23, 2023**
Production Date: **June 7, 2023**
Report Number: **W002AS-026975-RT-4716**



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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: MMcC Date: 6/7/2023

Name: Matt McCune Title: Regional Vice President

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: Michael Chowsanitphon Date: 6/7/2023

Name: Michael Chowsanitphon Title: Reporting Hub Manager

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1.0 INTRODUCTION AND SUMMARY

Montrose Air Quality Services, LLC (MAQS) was contracted by Ormond Beach Power, LLC (Ormond Beach) to perform the annual ammonia slip test at Ormond Beach Unit 2 as required by Authority to Construct Number 0065, Condition Number 11. This report documents the results of the ammonia slip test performed on May 23, 2023. 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 Matt McCune, Luis Olivares, Leandrew Escobeda, and Adrian Enwright of MAQS. Matt McCune was the on-site Qualified Individuals for MAQS. Roger Kahle and Mike Escarcega 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 NH₃ 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 264 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% O₂.

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 2
 MAY 23, 2023**

Parameter/Units	Average Measured Value	Permit Limit
Load, MW	264	--
O ₂ , %	4.92	--
NH₃		
ppm	2.1	--
ppm @ 3% O ₂	2.3	10
lb/hr	2.8	--
lb/MMBtu	0.0010	--
lb/MMSCF	1.10	--

2.0 UNIT AND CEMS DESCRIPTION

2.1 UNIT DESCRIPTION

Unit 2 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, O₂ concentration, standard F-Factor, and fuel higher heating value using EPA Method 19.

2.3 TEST CONDITIONS

The test was performed on May 23, 2023, with the unit operating at 35% of full load (264 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

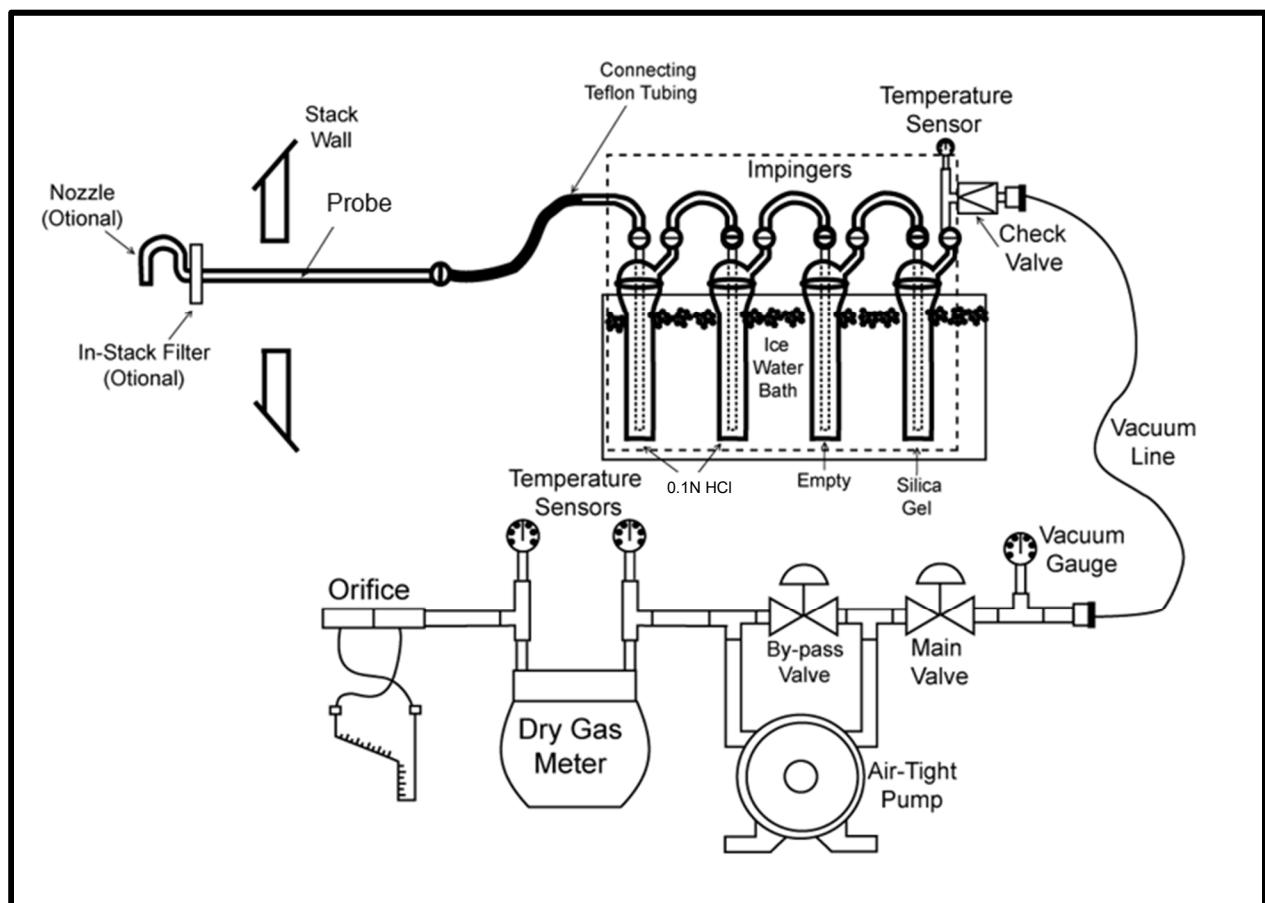
The reference method measurements were made from sample ports accessible from the stack sampling platform on the unit. There are four six-inch sample ports equally spaced at this location. The sample ports are located greater than 2.0 diameters downstream of the nearest flow disturbance and greater than 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) Method 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 ST-1A and ST-1B for ammonia concentration by ion specific electrode analysis. A diagram of the sampling equipment is presented as Figure 3-1.

Stack O₂ 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% O₂ 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 2.3 ppm @ 3% O₂ which is less than the permitted limit of 10 ppm @ 3% O₂.

**TABLE 4-1
AMMONIA SLIP TEST RESULTS
ORMOND BEACH UNIT 2
MAY 23, 2023**

Parameter/Units	1-NH ₃	2-NH ₃	3-NH ₃	Average	Limit
Time	1120/1159	1215/1255	1303/1342		--
Load, MW	262.9	263.6	264.7	263.7	--
Stack Flow, dscfm @ T_{ref}⁽¹⁾	512,000	516,300	518,000	515,433	--
O₂, %⁽¹⁾	4.93	4.93	4.91	4.92	--
NO_x⁽¹⁾					
ppm	5.90	5.86	5.87	5.88	--
ppm @ 3% O ₂	6.6	6.6	6.6	6.6	--
NH₃					
ppm	2.4	1.9	1.9	2.1	--
ppm @ 3% O ₂	2.7	2.2	2.1	2.3	10
lb/hr	3.3	2.7	2.6	2.9	--
lb/MMBtu	0.0012	0.0010	0.0009	0.0010	--
lb/MMSCF	1.29	1.03	0.98	1.10	--

(1) From facility CEMS

4.2 TEST OVERVIEW

The test program was successful in meeting the program objectives. The sample trains were leak checked before and after the test and all QA/QC requirements of BAAQMD Method ST-1B were satisfied.

APPENDIX A TEST DATA

Appendix A.1 Sample Location Data

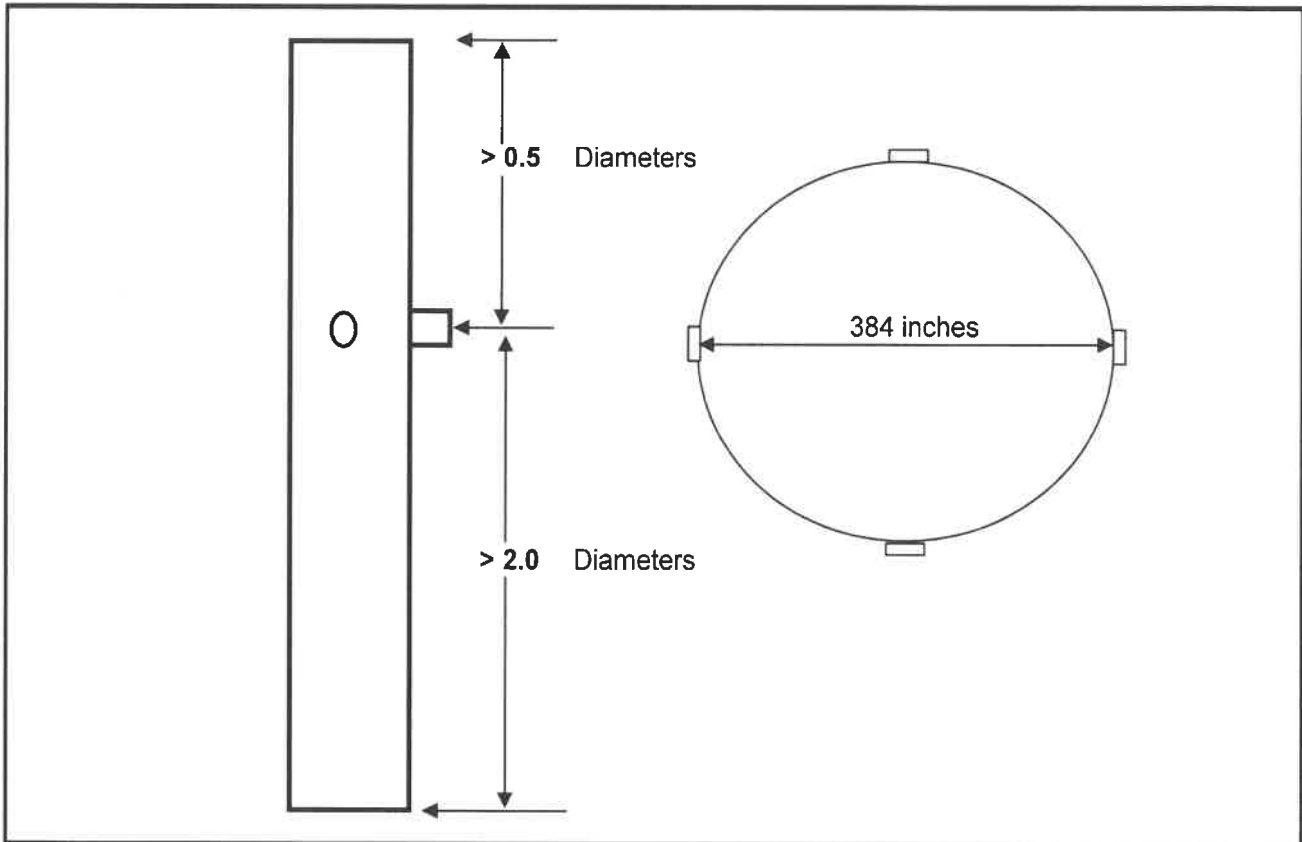
METHOD 1 DATA SHEET SAMPLE LOCATION

Client: Ormond Beach Power, LLC

Date: 5/23/23

Sample Location: Unit 2

Performed By: MM



Diameter (in.)	<u>384.0</u>	Sample Point	% of Diameter	Dist from Wall (inches)	Dist from Port (inches)
Upstream (ft.)	<u>> 64.0</u>	1	4.4	16.9	28.9
Downstream (ft.)	<u>> 16.0</u>	2	14.6	56.1	68.1
Coupling (in.)	<u>12.0</u>	3	29.6	113.7	125.7
Stack Area (ft ²)	<u>804.25</u>				

Appendix A.2

Sample Data Sheets

BAY AREA AQMD AMMONIA WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: Gen On Energy Ormond
 LOCATION: Unit 2
 DATE: 05/23/2023
 RUN NO: 1 - NYS
 OPERATOR: LE
 METER BOX NO: 29-WCS
 METER AHC: 1.885
 METER Yd: 1.013
 STACK AREA, FT²: 804.25
 TRAVERSE POINTS, MIN/POINT: 3
 ΔH= 1.5 X ΔP:
 Probe Condition, pre/post test: good (good)
 Silica Gel Expended, Y/N: N/A
 Filter Condition after Test: N/A
 Check Weight: 444.4 / 500.0

AMBIENT TEMPERATURE: 61°
 BAROMETRIC PRESSURE: 29.80
 ASSUMED MOISTURE:
 PITOT TUBE COEFF. Cp: NA
 PROBE ID NO/MATERIAL: Teflon
 PROBE LENGTH: 12 ft
 NOZZLE ID NO/MATERIAL: NA
 NOZZLE DIAMETER: NA
 FILTER NO/TYPE: NA
 PRE-TEST LEAK RATE: <0.005 CFM@ 15 in. Hg.
 POST-TEST LEAK RATE: <0.005 CFM@ 15 in. Hg.
 PITOT LEAK CHECK - PRE: NA POST: NA
 CHAIN OF CUSTODY: SAMPLE CUSTODIAN AE
SAMPLER LE/LO
SAMPLE CUSTODIAN AE

Imp. # Contents Post-Test - Pre-Test = Difference
 1 0.1N HCL 859.7 665.2
 2 0.1N HCL 695.4 694.7
 3 Empty 637.9 636.4
 4 Silica Gel 871.1 867.6
 5 LR (00 ml H₂O)
 6
 Total: 109.7

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O ₂ %	Pstatic in. H ₂ O
3	1120	684.530	NA	1.5	NA	NA	NA	57	64	66	5		
2	1123	686.650		1.5				57	64	66	5		
1	1126	688.840		1.5				55	65	65	5		
PC	1129	691.020											
3	1130	691.020		1.5				57	67	65	5		
2	1133	693.150		1.5				57	67	65	5		
1	1136	695.280		1.5				57	67	65	5		
PC	1139	697.390											
3	1140	697.390		1.5				58	68	66	5		
2	1143	699.505		1.5				58	68	66	5		
1	1146	701.620		1.5				58	68	68	5		
PC	1149	703.690											
3	1150	703.690		1.5				58	69	67	5		
2	1153	705.880		1.5				58	69	67	5		
1	1156	707.895		1.5				58	69	67	5		
E	1159	709.980											
Average:		<u>252.50</u>		<u>1.5</u>						<u>66.6</u>			

Comments:

BAY AREA AQMD AMMONIA WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: GenOn Energy Ormond
 LOCATION: Unit 2
 DATE: 05/25/2023
 RUN NO: 2 - NH3
 OPERATOR: LE
 METER BOX NO: 29-105
 METER ΔH@: 1885
 METER Yd: 1.013
 STACK AREA, FT²: 804.25
 TRAVERSE POINTS, MIN/POINT: 3
 ΔH= 1.5 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: 61°
 BAROMETRIC PRESSURE: 29.80
 ASSUMED MOISTURE: _____
 PITOT TUBE COEFF, Cp: NA
 PROBE ID NO/MATERIAL: Teflon
 PROBE LENGTH: 12 ft
 NOZZLE ID NO/ MATERIAL: NA
 NOZZLE DIAMETER: NA
 FILTER NO/TYPE: NA
 PRE-TEST LEAK RATE: <0.005 CFM@ 15 in. Hg.
 POST-TEST LEAK RATE: <0.005 CFM@ 12 in. Hg.
 PITOT LEAK CHECK - PRE: NA POST: NA
 CHAIN OF CUSTODY: SAMPLE CUSTODIAN LE
SAMPLER LE/L0
SAMPLE CUSTODIAN AE

Imp. # Contents Post-Test - Pre-Test = Difference
 1 0.1N HCL 895.9 846.5
 2 0.1N HCL 781.0 774.6
 3 Empty 645.0 644.7
 4 Silica Gel 845.9 839.4
 5 LR 100 mL 420
 6 _____
 Total: 107.5

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O ₂ %	Pstatic in. H ₂ O
3	1215	712.535	NA	1.5	NA	NA	NA	54	70	69	5		
2	1218	714.820		1.5				54	70	69	5		
1	1221	717.050		1.5				53	71	69	5		
PC	1224	719.255											
3	1225	719.255		1.5				53	71	69	5		
2	1228	721.470		1.5				53	72	70	5		
1	1231	726.680*	723.680						72	70	5		
PC	1234	725.880											
3	1235	725.880		1.5				54	73	70	5		
2	1238	728.090		1.5				54	73	70	5		
1	1241	730.310		1.5				54	74	70	5		
PC	1244	732.510											
3	1245	732.510		1.5				55	74	70	5		
2	1248	734.680		1.5				55	74	71	5		
1	1251	736.895		1.5				55	74	71	5		
E	1254	739.100											
Average:		726.565		1.5					71.0				

Comments: _____

*LE 05/23/23

BAY Near N43

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET - STANDARD

CLIENT: GenOn Energy Ormond
 LOCATION: Unit 2
 DATE: 05/23/2023
 RUN NO: 3-143
 OPERATOR: LE
 METER BOX NO: 2A-WCS
 METER ΔH@: 1.505
 METER Yd: 1.013
 STACK AREA, FT²: 804.25
 TRAVERSE POINTS, MIN/POINT: 3
 ΔH= 1.5 X ΔP:
 Probe Condition, pre/post test: good/good
 Silica Gel Expanded, Y/N: N
 Filter Condition after Test: NA
 Check Weight: 140.4/500.0

AMBIENT TEMPERATURE: 61°
 BAROMETRIC PRESSURE: 29.80
 ASSUMED MOISTURE: NA
 PITOT TUBE COEFF, Cp: NA
 PROBE ID NO/MATERIAL: TELLON
 PROBE LENGTH: 12 ft
 NOZZLE ID NO/MATERIAL: NA
 NOZZLE DIAMETER: NA
 FILTER NO/TYPE: NA
 PRE-TEST LEAK RATE: 0.005 CFM@ 5 in. Hg.
 POST-TEST LEAK RATE: 0.005 CFM@ 12 in. Hg.
 PITOT LEAK CHECK - PRE: NA POST: NA
 CHAIN OF CUSTODY: SAMPLE CUSTODIAN AE
SAMPLER LE/LQ
SAMPLE CUSTODIAN AE

Imp. # Contents Post-Test - Pre-Test = Difference
 1 0.1N HCl 844.9 665.8
 2 0.1N HCl 698.2 696.4
 3 Empty 639.1 637.9
 4 56
 UR 100 mL H₂O
 Total: 94.6

Point	Time	Meter Volume, ft ³	ΔP in. H ₂ O	ΔH in. H ₂ O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F		Vacuum in. Hg.	O ₂ %	P. static in. H ₂ O
									In	Out			
3	1303	742.150	NA	1.5	NA	NA	NA	55	71	70	5		
2	1306	744.340	1	1.5	NA	NA	NA	55	71	70	5		
1	1309	746.400	1	1.5	NA	NA	NA	56	72	70	5		
PC	1311/1312	748.460	1	1.5	NA	NA	NA	57	73	71	5		
3	1313	748.460	1	1.5	NA	NA	NA	57	73	71	5		
2	1316	750.400	1	1.5	NA	NA	NA	57	73	71	5		
1	1319	752.520	1	1.5	NA	NA	NA	57	73	71	5		
PC	1322	754.530	1	1.5	NA	NA	NA	57	73	71	5		
3	1323	754.530	1	1.5	NA	NA	NA	57	73	71	5		
2	1326	756.620	1	1.5	NA	NA	NA	57	73	71	5		
1	1329	758.685	1	1.5	NA	NA	NA	58	75	72	5		
PC	1332	760.805	1	1.5	NA	NA	NA	58	75	72	5		
3	1333	760.805	1	1.5	NA	NA	NA	59	75	72	5		
2	1336	762.920	1	1.5	NA	NA	NA	59	75	72	5		
1	1339	765.110	1	1.5	NA	NA	NA	59	75	72	5		
E	1342	767.075	1	1.5	NA	NA	NA	59	75	72	5		
Average:		<u>747.925</u>		<u>1.5</u>						<u>72.0</u>			

Comments:

*LE
05/23/2023

Appendix A.3 Laboratory Data

Appendix A.4 QA/QC Data

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Orifice Method - Triplicate Runs/Four Calibration Points
 English Meter Box Units, English K' Factor
 Filename: M:\Santia Ana\Equipment\Test Equipment\Calibrations\Dry Gas Meters\29-WCS\2023\29WCS Semi Annual Cal 4-6-2023.xlsx
 File Modified From: APEX 522 Series Meter box Calibration
 Revised: 4/8/2023

Model #: Clean Air Express
 ID #: 29-WCS
 Date: 4/6/2023
 Bar. Pressure: 30.00 (in. Hg)
 Performed By: L. Olivares
 Reviewed By: Surya Adhikari

DRY GAS METER READINGS										CRITICAL ORIFICE READINGS				
dH (in H2O)	Time (min)	Volume		Volume Total (cu ft)	Initial Temps.		Final Temps.		Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Ambient Temperature		
		Initial (cu ft)	Final (cu ft)		Inlet (deg F)	Outlet (deg F)	Inlet (deg F)	Outlet (deg F)				Initial (deg F)	Final (deg F)	Average (deg F)
0.16	26.00	124.700	130.240	5.540	69.0	67.0	69.0	68.0	14742-33	0.1635	18.0	65.0	65.0	65.0
0.16	26.00	130.240	135.775	5.535	69.0	68.0	69.0	68.0	14742-33	0.1635	18.0	65.0	66.0	65.5
0.16	26.00	135.775	141.335	5.560	69.0	68.0	70.0	69.0	14742-33	0.1635	18.0	66.0	67.0	66.5
0.72	12.00	108.200	113.610	5.410	71.0	67.0	70.0	67.0	PK-48	0.3491	16.0	63.0	65.0	64.0
0.72	12.00	113.610	119.015	5.405	70.0	67.0	71.0	67.0	PK-48	0.3491	16.0	65.0	65.0	64.0
0.72	12.00	119.015	124.425	5.410	71.0	67.0	71.0	68.0	PK-48	0.3491	16.0	65.0	63.0	64.0
1.80	7.00	91.900	97.040	5.140	71.0	65.0	71.0	65.0	PK-63	0.5729	15.0	64.0	63.0	63.5
1.80	7.00	97.040	102.180	5.140	71.0	65.0	72.0	66.0	PK-63	0.5729	15.0	63.0	62.0	62.5
1.80	7.00	102.180	107.340	5.160	72.0	66.0	73.0	67.0	PK-63	0.5729	15.0	62.0	63.0	62.5
3.50	5.00	76.100	81.155	5.055	71.0	62.0	71.0	63.0	PK-73	0.7978	14.0	63.0	63.0	63.0
3.50	5.00	81.155	86.210	5.055	71.0	63.0	72.0	63.0	PK-73	0.7978	14.0	63.0	63.0	63.0
3.50	5.00	86.210	91.270	5.060	72.0	63.0	73.0	64.0	PK-73	0.7978	14.0	63.0	63.0	63.0

DRY GAS METER				DRY GAS METER				DRY GAS METER					
ORIFICE		ORIFICE		ORIFICE		ORIFICE		ORIFICE		ORIFICE		ORIFICE	
VOLUME CORRECTED V _m (std) (cu ft)	VOLUME CORRECTED V _c (std) (cu ft)	VOLUME CORRECTED V _c (liters)	VOLUME CORRECTED V _c (cu ft)	NOMINAL V _c	Y Value (number)	Y Value (number)	Y Value (number)	dh@ Value (in H2O)	Individual Run	Individual Orifice	Orifice Average	Orifice Average	Orifice Average
5.552	157.2	5.566	157.6	5.522	1.002	1.002	1.002	1.971	0.95 < Y < 1.057	Ymax - Ymin < 0.0107	0.98 < Y/Yd < 1.027	dh@ - dh@ av < 0.1557	Pass
5.545	157.0	5.563	157.6	5.524	1.003	1.003	1.003	1.971	Pass	Pass	Pass	Pass	Pass
5.564	157.6	5.568	157.4	5.530	0.999	0.999	0.999	1.973	Pass	Pass	Pass	Pass	Pass
		Average	1.002	Average	1.002	1.002	1.002	1.972	Pass	Pass	Pass	Pass	Pass
5.424	153.6	5.490	155.5	5.436	1.012	1.012	1.012	1.944	Pass	Pass	Pass	Pass	Pass
5.419	153.5	5.485	155.3	5.441	1.012	1.012	1.012	1.947	Pass	Pass	Pass	Pass	Pass
5.419	153.5	5.490	155.5	5.436	1.013	1.013	1.013	1.942	Pass	Pass	Pass	Pass	Pass
		Average	1.012	Average	1.012	1.012	1.012	1.944	Pass	Pass	Pass	Pass	Pass
5.174	146.5	5.258	148.9	5.202	1.016	1.016	1.016	1.809	Pass	Pass	Pass	Pass	Pass
5.170	146.4	5.263	149.1	5.197	1.018	1.018	1.018	1.804	Pass	Pass	Pass	Pass	Pass
5.180	146.7	5.263	149.1	5.197	1.016	1.016	1.016	1.801	Pass	Pass	Pass	Pass	Pass
		Average	1.017	Average	1.017	1.017	1.017	1.805	Pass	Pass	Pass	Pass	Pass
5.122	145.1	5.233	148.2	5.171	1.022	1.022	1.022	1.821	Pass	Pass	Pass	Pass	Pass
5.117	144.9	5.233	148.2	5.171	1.023	1.023	1.023	1.819	Pass	Pass	Pass	Pass	Pass
5.115	144.9	5.233	148.2	5.171	1.023	1.023	1.023	1.818	Pass	Pass	Pass	Pass	Pass
		Average	1.022	Average	1.022	1.022	1.022	1.819	Pass	Pass	Pass	Pass	Pass
		Average Yd:	1.013	dh@:	1.885								
		Q_g dh = 1:	0.546										

SIGNED: _____ Signature on File _____ Date: 4/6/2023



DIGITAL TEMPERATURE READOUT CALIBRATION

Digital Temperature Readout ID: 29-WCS
 Readout Description: Control Box
 Date: 1/3/2023
 Performed By: LO, RMo, DA

Calibrated Thermocouple ID: TC-CAL
 T1 Reference Thermometer ID: 313010
 T2 Reference Thermometer ID: 242196
 T3 Reference Thermometer ID: 805002770

T/C I.D.	Readout I.D.	T/C - Readout °F				Reference Thermometer °F				Difference			
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)		
TC-CAL													
T3 (OIL)	29-WCS	369	369	369	369	361	361	361	361	8.0	1.0%	Pass	
T2 (Boiling H ₂ O)	29-WCS	220	220	220	220	212	212	212	212	8.0	1.2%	Pass	
T1 (Ice/Water)	29-WCS	37	37	37	37	32	32	32	32	5.0	1.0%	Pass	

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

Thermocouple Source Readings

T/C Source S/N	T/C Source S/N	T/C - Readout °F				T/C Source °F				Difference		
		Reading 1	Reading 2	Reading 3	Average	Reading 1	Reading 2	Reading 3	Average	°F	%, (°R)	
T4 (~650 F)	129103	653	653	653	653	650	650	650	650	3.0	0.3%	Pass
T3 (~370 F)	129103	372	372	372	372	370	370	370	370	2.0	0.2%	Pass
T2 (~212 F)	129103	214	214	214	214	212	212	212	212	2.0	0.3%	Pass
T1 (~32 F)	129103	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)

Barometric Pressure Determination



Date: 05/23/23

Time: _____

Data By: MM

Reference: <http://forecast.weather.gov/MapClick.php?lat=3;>

Reference Barometer ID	Oxnard, Oxnard Airport (KOXR)
Reference Barometer Location	
Reference Barometer Other Info.	Lat: 34.20056°N Lon: 119.20306°WElev: 43ft.
Reference Barometer Indication, corrected to sea level	29.92
Reference Barometer Reference Elevation	43
Reference Barometer Actual Pressure	29.88
Test Barometer Location/Site	Ormond Beach
Location/Site Elevation	0
Location/Site Barometric Pressure	29.92
Sampling Location Height (above/below site elevation)	125
Sampling Location Barometric Pressure	29.80

APPENDIX B FACILITY CEMS DATA

ORMOND U-2
NH3 SLIP
RUN #1

Average Data
Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 11:20 Through 05/23/2023 11:59
Time Online Criteria: 1 minute(s)

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)	
05/23/23 11:20	25,534.2	262.5	0.18	0.008	0.085	5.84	5.06	514.8	1.0	
05/23/23 11:21	25,471.6	261.9	0.17	0.008	0.084	5.85	4.90	507.1	1.0	
05/23/23 11:22	25,425.2	261.8	0.16	0.008	0.083	5.74	5.01	508.4	1.0	
05/23/23 11:23	25,494.7	262.0	0.18	0.008	0.085	5.92	4.91	507.6	1.0	
05/23/23 11:24	25,563.1	260.6	0.20	0.008	0.088	6.08	4.91	509.0	1.0	
05/23/23 11:25	25,512.8	263.1	0.19	0.008	0.086	6.04	4.91	508.0	1.0	
05/23/23 11:26	25,537.5	261.8	0.18	0.008	0.085	5.90	4.93	508.5	1.0	
05/23/23 11:27	25,431.5	261.4	0.17	0.008	0.084	5.83	4.89	506.4	1.0	
05/23/23 11:28	25,481.9	262.5	0.17	0.008	0.085	5.88	4.94	507.4	1.0	
05/23/23 11:29	25,415.4	261.5	0.19	0.008	0.086	5.98	5.01	509.2	1.0	
05/23/23 11:30	25,468.4	261.9	0.19	0.008	0.087	6.06	4.88	507.1	1.0	
05/23/23 11:31	25,547.2	261.4	0.20	0.008	0.086	5.95	4.97	511.9	1.0	
05/23/23 11:32	25,662.9	261.9	0.18	0.008	0.085	5.89	4.85	511.0	1.0	
05/23/23 11:33	25,577.4	262.9	0.17	0.008	0.083	5.76	4.92	509.3	1.0	
05/23/23 11:34	25,538.3	261.9	0.18	0.008	0.084	5.88	4.88	508.5	1.0	
05/23/23 11:35	25,441.8	265.1	0.18	0.008	0.085	5.99	4.96	509.7	1.0	
05/23/23 11:36	25,606.3	263.3	0.21	0.008	0.088	6.09	4.94	509.8	1.0	
05/23/23 11:37	25,616.2	265.3	0.20	0.008	0.086	6.05	4.91	510.0	1.0	
05/23/23 11:38	25,850.5	263.8	0.20	0.008	0.086	5.93	4.90	514.7	1.0	
05/23/23 11:39	25,851.1	266.9	0.19	0.008	0.084	5.92	4.83	511.5	1.0	
05/23/23 11:40	25,814.6	266.6	0.18	0.008	0.083	5.83	4.89	514.0	1.0	
05/23/23 11:41	25,849.9	265.3	0.20	0.008	0.085	5.87	4.93	514.7	1.0	
05/23/23 11:42	26,039.7	269.4	0.20	0.008	0.086	6.05	4.82	515.2	1.0	
05/23/23 11:43	25,876.8	267.3	0.19	0.008	0.085	5.96	4.96	518.5	1.0	
05/23/23 11:44	25,597.5	267.3	0.17	0.008	0.084	5.92	4.96	512.9	1.0	
05/23/23 11:45	25,361.8	266.5	0.15	0.008	0.082	5.76	5.05	508.1	1.0	
05/23/23 11:46	25,127.3	262.5	0.16	0.008	0.084	5.86	5.07	506.6	1.0	
05/23/23 11:47	25,217.7	262.6	0.19	0.008	0.087	6.14	4.96	505.3	1.0	
05/23/23 11:48	25,515.2	259.9	0.22	0.008	0.090	6.20	4.97	511.2	1.0	
05/23/23 11:49	25,688.1	261.3	0.23	0.008	0.090	6.22	4.87	511.5	1.0	
05/23/23 11:50	25,832.6	259.2	0.22	0.008	0.087	5.92	4.89	514.3	1.0	
05/23/23 11:51	25,920.5	261.7	0.20	0.008	0.084	5.76	4.86	516.1	1.0	
05/23/23 11:52	25,991.6	261.1	0.20	0.008	0.085	5.78	4.94	517.5	1.0	
05/23/23 11:53	25,803.0	260.0	0.21	0.008	0.084	5.76	4.91	513.7	1.0	
05/23/23 11:54	26,100.0	262.9	0.21	0.008	0.085	5.83	4.85	519.7	1.0	

W002AS-026975-RT 4710

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

Average Data

Plant: ORMOND BEACH GEN STA

Interval: 1 Minute

Type: Roll

Report Period: 05/23/2023 11:20 Through 05/23/2023 11:59

Time Online Criteria: 1 minute(s)

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)	
05/23/23 11:55	25,948.9	261.1	0.20	0.008	0.085	5.74	5.01	519.9	1.0	
05/23/23 11:56	25,939.4	263.7	0.20	0.008	0.084	5.78	4.93	516.5	1.0	
05/23/23 11:57	26,054.6	259.9	0.22	0.008	0.086	5.82	4.91	518.8	1.0	
05/23/23 11:58	25,912.1	265.2	0.19	0.008	0.083	5.74	4.84	512.7	1.0	
05/23/23 11:59	25,992.2	269.7	0.20	0.008	0.084	5.66	5.04	520.8	1.0	

Average 262.9
 Minimum 259.2
 Maximum 269.4
 Summation 10,516.7
 Included Data Points 40
 Total number of Data Points 40

0.19 0.008 0.085 5.90 512.0
 0.15 0.008 0.082 5.65 505.3
 0.23 0.008 0.090 6.22 520.8
 7.63 0.320 3.408 236.17 20,478.9
 40 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

ARMOND U-2
 NH3 SLIP
 RUN # 2

Average Data

Plant: ORMOND BEACH GEN STA
 Interval: 1 Minute
 Type: Roll

Report Period: 05/23/2023 12:15 Through 05/23/2023 12:55
 Time Online Criteria: 1 minute(s)

Source		ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MMW (LB/MMBTU)	NOX#NMW (LB/MMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)		
05/23/23 12:15	25,948.5	261.7	0.21	0.008	0.085	5.81	4.93	516.6	1.0		
05/23/23 12:16	26,155.3	260.8	0.24	0.008	0.089	6.07	4.79	517.5	1.0		
05/23/23 12:17	26,181.2	267.3	0.20	0.008	0.086	5.97	4.83	518.0	1.0		
05/23/23 12:18	25,759.4	263.4	0.18	0.008	0.082	5.63	5.03	516.1	1.0		
05/23/23 12:19	25,849.7	262.3	0.21	0.008	0.085	5.85	4.93	514.7	1.0		
05/23/23 12:20	25,939.3	266.8	0.19	0.008	0.085	5.92	4.90	516.5	1.0		
05/23/23 12:21	25,704.7	263.3	0.19	0.008	0.083	5.71	5.04	515.0	1.0		
05/23/23 12:22	25,849.6	261.8	0.21	0.008	0.086	5.90	4.88	514.7	1.0		
05/23/23 12:23	25,976.1	266.3	0.20	0.008	0.086	5.96	4.87	517.2	1.0		
05/23/23 12:24	25,705.1	263.7	0.19	0.008	0.085	5.85	5.07	518.3	1.0		
05/23/23 12:25	25,695.9	259.5	0.22	0.008	0.087	5.94	4.91	511.6	1.0		
05/23/23 12:26	26,003.6	265.4	0.20	0.008	0.086	5.95	4.84	514.5	1.0		
05/23/23 12:27	25,786.5	264.7	0.18	0.008	0.083	5.75	5.02	516.7	1.0		
05/23/23 12:28	25,695.1	263.9	0.20	0.008	0.083	5.79	4.96	514.8	1.0		
05/23/23 12:29	26,010.1	262.7	0.20	0.008	0.087	5.97	4.89	517.9	1.0		
05/23/23 12:30	25,877.6	263.7	0.20	0.008	0.085	5.88	4.92	515.2	1.0		
05/23/23 12:31	25,822.9	264.7	0.19	0.008	0.084	5.81	4.94	514.1	1.0		
05/23/23 12:32	25,651.2	261.7	0.19	0.008	0.084	5.79	5.00	513.9	1.0		
05/23/23 12:33	25,759.9	265.7	0.20	0.008	0.086	5.99	4.88	512.9	1.0		
05/23/23 12:34	25,804.2	261.3	0.21	0.008	0.086	5.88	4.96	517.0	1.0		
05/23/23 12:35	25,823.3	265.0	0.20	0.008	0.085	5.95	4.84	511.0	1.0		
05/23/23 12:36	25,754.6	261.8	0.20	0.008	0.085	5.84	4.97	516.0	1.0		
05/23/23 12:37	25,631.8	264.4	0.19	0.008	0.084	5.88	4.92	510.3	1.0		
05/23/23 12:38	25,652.7	262.1	0.20	0.008	0.085	5.84	5.01	514.0	1.0		
05/23/23 12:39	25,664.8	262.5	0.21	0.008	0.086	5.95	4.94	511.0	1.0		
05/23/23 12:40	25,867.1	266.1	0.21	0.008	0.086	6.00	4.93	515.0	1.0		
05/23/23 12:41	25,818.1	263.9	0.19	0.008	0.084	5.81	4.99	517.3	1.0		
05/23/23 12:42	25,753.2	261.2	0.22	0.008	0.086	5.92	4.95	512.8	1.0		
05/23/23 12:43	25,994.6	264.0	0.22	0.008	0.087	6.00	4.87	517.6	1.0		
05/23/23 12:44	25,863.6	264.9	0.19	0.008	0.083	5.78	4.94	515.0	1.0		
05/23/23 12:45	25,805.7	263.1	0.20	0.008	0.084	5.78	4.96	517.0	1.0		
05/23/23 12:46	26,168.5	262.8	0.23	0.008	0.088	5.97	4.87	521.0	1.0		
05/23/23 12:47	26,219.5	262.2	0.23	0.008	0.087	5.91	4.89	522.0	1.0		
05/23/23 12:48	26,048.2	264.0	0.20	0.008	0.084	5.72	4.97	521.9	1.0		
05/23/23 12:49	25,924.0	265.1	0.19	0.008	0.082	5.69	4.98	519.4	1.0		

W002AS-026975-RT 4710

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

Average Data

Plant: ORMOND BEACH GEN STA

Interval: 1 Minute

Type: Roll

Report Period: 05/23/2023 12:15 Through 05/23/2023 12:55

Time Online Criteria: 1 minute(s)

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)	
05/23/23 12:50	25,919.2	263.1	0.19	0.008	0.083	5.67	4.95	519.3	1.0	
05/23/23 12:51	26,082.2	262.7	0.21	0.008	0.086	5.84	4.88	519.3	1.0	
05/23/23 12:52	26,091.8	264.6	0.21	0.008	0.086	5.87	4.93	519.5	1.0	
05/23/23 12:53	25,988.2	266.1	0.21	0.008	0.085	5.90	4.97	520.7	1.0	
05/23/23 12:54	25,937.0	264.6	0.21	0.008	0.085	5.83	4.97	519.7	1.0	
05/23/23 12:55	26,108.2	263.4	0.21	0.008	0.085	5.81	4.83	516.6	1.0	

Average	25,885.2	263.6	0.20	0.008	0.085	5.86	4.93	516.3	1.0
Minimum	25,631.8	259.5	0.18	0.008	0.082	5.63	4.79	510.3	1.0
Maximum	26,219.5	267.3	0.24	0.008	0.089	6.07	5.07	522.0	1.0
Summation	1,081,292.2	10,808.3	8.34	0.328	3.489	240.38	202.16	21,169.6	41.0
Included Data Points	41	41	41	41	41	41	41	41	41
Total number of Data Points	41	41	41	41	41	41	41	41	41

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

ORMOND U-2
NH3 SLIP
RUN #3

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 13:03 Through 05/23/2023 13:42
Time Online Criteria: 1 minute(s)

W002AS-026975-RT 4710

ORB2										
Source	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)	
05/23/23 13:03	26,002.6	265.0	0.21	0.008	0.086	5.92	4.88	517.7	1.0	
05/23/23 13:04	26,013.5	263.7	0.20	0.008	0.085	5.84	4.90	517.9	1.0	
05/23/23 13:05	26,068.2	264.9	0.21	0.008	0.085	5.83	4.91	519.0	1.0	
05/23/23 13:06	26,238.3	266.2	0.22	0.008	0.087	6.00	4.90	522.4	1.0	
05/23/23 13:07	26,073.9	263.8	0.22	0.008	0.087	5.92	4.94	519.2	1.0	
05/23/23 13:08	26,030.9	265.1	0.21	0.008	0.085	5.82	4.95	518.3	1.0	
05/23/23 13:09	26,012.4	264.4	0.19	0.008	0.083	5.72	4.93	517.9	1.0	
05/23/23 13:10	26,070.3	263.3	0.22	0.008	0.086	5.83	4.96	522.3	1.0	
05/23/23 13:11	26,171.9	265.3	0.21	0.008	0.086	5.90	4.83	517.9	1.0	
05/23/23 13:12	26,091.9	263.6	0.20	0.008	0.084	5.77	4.92	519.5	1.0	
05/23/23 13:13	26,106.8	265.3	0.21	0.008	0.085	5.89	4.86	519.8	1.0	
05/23/23 13:14	26,176.1	265.7	0.20	0.008	0.085	5.87	4.91	521.2	1.0	
05/23/23 13:15	26,020.6	263.4	0.21	0.008	0.085	5.80	4.97	521.3	1.0	
05/23/23 13:16	26,030.5	264.8	0.21	0.008	0.086	5.93	4.89	518.3	1.0	
05/23/23 13:17	25,986.2	263.1	0.21	0.008	0.085	5.82	4.88	520.7	1.0	
05/23/23 13:18	26,006.5	264.3	0.22	0.008	0.086	5.91	4.88	517.8	1.0	
05/23/23 13:19	26,145.0	264.3	0.22	0.008	0.086	5.90	4.87	520.6	1.0	
05/23/23 13:20	26,074.2	266.0	0.20	0.008	0.084	5.84	4.84	515.9	1.0	
05/23/23 13:21	25,986.5	265.2	0.20	0.008	0.084	5.81	4.93	517.6	1.0	
05/23/23 13:22	25,903.9	264.3	0.20	0.008	0.085	5.84	4.94	515.8	1.0	
05/23/23 13:23	25,878.4	265.3	0.19	0.008	0.084	5.83	4.91	515.2	1.0	
05/23/23 13:24	25,883.1	264.1	0.20	0.008	0.085	5.83	4.96	518.6	1.0	
05/23/23 13:25	26,021.0	266.4	0.21	0.008	0.086	6.02	4.84	514.9	1.0	
05/23/23 13:26	26,005.6	264.5	0.22	0.008	0.088	6.01	4.97	521.0	1.0	
05/23/23 13:27	25,922.5	265.1	0.21	0.008	0.085	5.91	4.93	516.1	1.0	
05/23/23 13:28	25,887.3	264.6	0.20	0.008	0.085	5.85	4.94	515.4	1.0	
05/23/23 13:29	25,858.8	265.4	0.20	0.008	0.085	5.89	4.90	514.9	1.0	
05/23/23 13:30	25,944.6	263.6	0.21	0.008	0.085	5.82	4.92	516.6	1.0	
05/23/23 13:31	26,083.0	265.5	0.21	0.008	0.085	5.86	4.87	519.3	1.0	
05/23/23 13:32	25,997.7	265.2	0.20	0.008	0.084	5.80	4.89	517.6	1.0	
05/23/23 13:33	25,910.6	266.5	0.20	0.008	0.084	5.86	4.92	515.9	1.0	
05/23/23 13:34	26,004.8	264.0	0.19	0.008	0.084	5.81	4.84	514.6	1.0	
05/23/23 13:35	25,914.3	262.9	0.20	0.008	0.085	5.84	4.94	516.0	1.0	
05/23/23 13:36	25,929.0	265.9	0.21	0.008	0.086	5.98	4.91	516.3	1.0	
05/23/23 13:37	26,048.3	265.3	0.22	0.008	0.087	5.98	4.89	518.6	1.0	

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

Average Data

Plant: ORMOND BEACH GEN STA

Interval: 1 Minute

Type: Roll

Report Period: 05/23/2023 13:03 Through 05/23/2023 13:42

Time Online Criteria: 1 minute(s)

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/NMW (LB/NMW)	NOXPPM (PPM)	O2 (PERCENT)	STKFLOW (KSCFM)	UNITOPHR (MIN)	
05/23/23 13:38	26,057.9	265.5	0.23	0.008	0.088	6.04	4.94	518.8	1.0	
05/23/23 13:39	26,056.3	263.7	0.22	0.008	0.086	5.91	4.88	518.8	1.0	
05/23/23 13:40	26,030.3	265.5	0.20	0.008	0.084	5.82	4.90	518.3	1.0	
05/23/23 13:41	25,861.3	264.8	0.19	0.008	0.083	5.74	4.94	514.9	1.0	
05/23/23 13:42	25,867.5	263.8	0.20	0.008	0.083	5.73	4.87	515.4	1.0	

Average
Minimum
Maximum
Summation
Included Data Points
Total number of Data Points

Average	26,010.1	264.7	0.21	0.008	0.085	5.87	4.91	518.0	1.0
Minimum	25,856.8	262.9	0.19	0.008	0.083	5.72	4.83	514.6	1.0
Maximum	26,236.3	266.5	0.23	0.008	0.088	6.04	4.97	522.4	1.0
Summation	1,040,402.5	10,589.3	8.28	0.320	3.407	234.69	196.33	20,718.3	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

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

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

C. Stack gas velocity, ft/sec

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

II. Moisture

A. Sample gas volume, dscf

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

B. Water vapor volume, scf

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

C. Moisture content, dimensionless

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

III. Stack gas volumetric flow rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

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

IV. Gaseous Mass Emission Rates, lb/hr

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

V. Emission Rates, lb/MMBtu

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

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1-Bwo) * 0 * V_s * P_s * Dn2} * \frac{520^{\circ}R}{T_{ref}}$$

VII. Particulate emissions

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

(b) Grain loading at 12% CO₂, gr/dscf
C_{12% CO₂} = C (12/% CO₂)

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

(d) Particulate emission factor
lb/10⁶ Btu = C x $\frac{1 \text{ lb}}{7000 \text{ gr}}$ x F x $\frac{20.9}{20.9 - \% O_2}$

Nomenclature:

A _s	= stack area, ft ²
B _{w0}	= flue gas moisture content, dimensionless
C _{12%CO₂}	= particulate grain loading, gr/dscf corrected to 12% CO ₂
C	= particulate grain loading, gr/dscf
C _p	= pitot calibration factor, dimensionless
D _n	= nozzle diameter, 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, iwg
Q	= wet stack flow rate at actual conditions, wacfm
Q _{sd}	= dry standard stack flow rate, dscfm
SV	= specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T _m	= meter temperature, °R
T _{ref}	= reference temperature, °R
T _s	= stack temperature, °R
V _s	= stack gas velocity, ft/sec
V _{lc}	= volume of liquid collected in impingers, ml
V _m	= uncorrected dry meter volume, dcf
V _{mstd}	= dry meter volume at standard conditions, dscf
V _{wstd}	= volume of water vapor at standard conditions, scf
Y _d	= meter calibration coefficient

Appendix C.2

Spreadsheet Summaries

APPENDIX D QUALITY ASSURANCE

BAAQMD METHOD ST-1B DATA WORKSHEET AND SUMMARY

Facility.....	Ormond Beach			Parameter.....	NH ₃
Unit.....	2			Fuel.....	Natural gas
Sample Location.....	Stack			Data By.....	MM
Test Number.....	1-NH3	2-NH3	3-NH3	Average	Limit
Reference Temperature (°F).....	68	68	68		
Test Date.....	5/23/2023	5/23/2023	5/23/2023		
Test Method.....	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B		
Sample Train.....	29-WCS	29-WCS	29-WCS		
Meter Calibration Factor.....	1.013	1.013	1.013		
Stack Area (ft ²).....	804.25	804.25	804.25		
Sample Time (Minutes).....	36	36	36		
Barometric Pressure ("Hg).....	29.80	29.80	29.80		
Start/Stop Time	1120/1159	1215/1254	1303/1342		
Meter Volume (acf).....	25.450	26.565	24.925		
Meter Temperature (°F).....	66.6	71.0	72.0		
Meter Pressure (iwg).....	1.5	1.5	1.5		
Liquid Volume (ml).....	104.7	107.5	94.6		
Stack O ₂ (%).....	4.93	4.93	4.91	4.92	
Unit Load (MW).....	262.9	263.6	264.7	263.7	
Standard Sample Volume (SCF).....	25.839	26.748	25.049		
Moisture Fraction.....	0.161	0.159	0.151		
Stack Flow Rate (dscfm, 68 °F).....	512,000	516,300	518,000	515,433	
Stack Flow Rate (@ Tref).....	512,000	516,300	518,000		
Gas Constant (ft-lbf/lb-mole-R).....	1545.33	1545.33	1545.33		
Molecular Weight NH ₃ (lb/lb-mole)....	17.03	17.03	17.03		
Specific Molar Volume (ft ³ /lb-mole)....	385.3384615	385.3384615	385.3384615		
F-Factor (dscf/MMBtu).....	8,710	8,710	8,710		
HHV(Btu/SCF).....	1,050	1,050	1,050		
Mass Conversion (lb/ug).....	2.2046E-09	2.2046E-09	2.2046E-09		
O ₂ Correction Factor (%).....	3	3	3		
Mass NH ₃ (ug).....	1,263	1,043	937		
Mass NH ₃ (lb).....	2.78E-06	2.30E-06	2.07E-06		
NH ₃ (ppmv, flue gas).....	2.4	1.9	1.9	2.1	
NH ₃ (ppmv @ O ₂ Correction Factor)...	2.7	2.2	2.1	2.3	10
NH ₃ (lb/hr).....	3.3	2.7	2.6	2.8	
NH ₃ (lb/MMBtu).....	0.0012	0.0010	0.0009	0.0010	
NH ₃ (lb/MMSCF).....	1.29	1.03	0.98	1.10	

Note: O₂, Stack Flow Rate, and Unit Load are from facility certified CEMS.

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

Identifier	Description	Units	Equation	Value
A	Reference Temperature	F	--	68
B	Reference Temperature	R	A + 460	528
C	Meter Calibration Factor (Yd)	--	--	1.013
D	Barometric Pressure	" Hg	--	29.80
E	Meter Volume	acf	--	25.450
F	Meter Temperature	F	--	66.6
G	Meter Temperature	R	F + 460	526.6
H	Delta H	" H ₂ O	--	1.5
I	Meter Volume (standard)	dscf	0.03342 * E * (D + H/13.6) * B/G * C	25.839
J	Liquid Collected	grams	--	104.7
K	Water vapor volume	scf	0.0472 * J * B/528	4.942
L	Moisture Content	--	K/(K + I)	0.161
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	--	2.2046E-09
R	O ₂ Correction Factor	--	--	3
S	Stack Flow Rate @ 68 F	dscfm	--	512,000
T	Stack Flow Rate @ Tref	dscfm	S * B/528	512,000
U	Mass NH ₃	ug	--	1,263
V	Mass NH ₃	lb	U * Q	2.78E-06
W	MW of NH ₃	lb/lb-mole	--	17.03
X	NH ₃	ppm	(V * N * 10 ⁹)/(I * W)	2.4
Y	Flue Gas O ₂	%	--	4.93
Z	NH ₃	ppmc	X * (20.9 - R)/(20.9 - Y)	2.7
AA	NH ₃	lb/hr	X * T * W * 60/(N * 10 ⁹)	3.3
AB	NH ₃	lb/MMBtu	(X * W * O)/(385.3 * 10 ⁹) * 20.9/(20.9 - Y)	0.001
AC	NH ₃	lb/MMSCF	AB * P	1.3

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.1

Quality Assurance Program Summary

QUALITY ASSURANCE PROGRAM SUMMARY

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

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

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

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

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

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

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

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

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

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

ASTM D7036-04 Required Information

Uncertainty Statement

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

Performance Data

Performance data are available for review.

Qualified Personnel

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

Plant Entry and Safety Requirements

Plant Entry

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

Safety Requirements

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

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

The following safety measures are followed:

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

Each facility will provide plant specific safety training.

**TABLE 1
 EQUIPMENT MAINTENANCE SCHEDULE**

Equipment	Acceptance Limits	Frequency of Service	Methods of Service
Pumps	<ol style="list-style-type: none"> 1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	<ol style="list-style-type: none"> 1. Free mechanical movement 	As recommended by manufacturer	<ol style="list-style-type: none"> 1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	<ol style="list-style-type: none"> 1. Absence of malfunction 2. Proper response to zero span gas 	As recommended by manufacturer	As recommended by manufacturer
Integrated Sampling Tanks	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Steam clean 2. Leak check
Mobile Van Sampling System	<ol style="list-style-type: none"> 1. Absence of leaks 	Depends on nature of use	<ol style="list-style-type: none"> 1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling Lines	<ol style="list-style-type: none"> 1. Sample degradation less than 2% 	After each test series	<ol style="list-style-type: none"> 1. Blow dry, inert gas through line until dry

**TABLE 2
MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS**

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

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

Appendix D.2 STAC Certification



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 4th day of February 2022.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 29, 2024

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

Appendix D.3 Individual QI Certificates

CERTIFICATE OF COMPLETION

Matt McCune

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: 002-2018-50



Tate Strickler, Accreditation Director

DATE OF
ISSUE:

9/19/18

DATE OF
EXPIRATION:

9/19/23



CERTIFICATE OF COMPLETION

Matt McCune

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 Methods

Certificate Number: 002-2018-51



Tate Strickler, Accreditation Director

DATE OF ISSUE: 9/18/18

DATE OF EXPIRATION: 9/18/23



CERTIFICATE OF COMPLETION

Matt McCune

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 Method ST-1B

Certificate Number: 002-2022-62

Tate Strickler
Tate Strickler, VP – Quality Systems

DATE OF ISSUE: 03/30/2022

DATE OF EXPIRATION: 03/29/2027

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

HIGH ACCURACY METER TEST

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

Single Phase
Poly Phase



(Glass)

WORK ORDER #:

LOCATION: OBGS
 MANUFACTURER: SEL
 WATTS: 3A PHASE: 3 ELEMENT: 2
 P.T. RATIO: 240/1 C.T. RATIO: 2000/5 STD. SER. NO.:
 MODEL: 155 WIRE: 3 WOLTS: 115VAC SERIAL #: 314202186
 NOMINAL ANALOG: 4-20 mA MULTIPLIER: 1.8 STD. WATTS:
 STD. mA: 1.8

START OF TEST TIME:
 WATT DISPLAY 0.00
 WATT-HOUR COUNT: 1215437.3

END OF TEST TIME:
 WATT DISPLAY 0.00
 WATT-HOUR COUNT: 1215498.73

TEST DATA

NOMINAL SETTINGS				DIGITAL OUTPUT				ANALOG OUTPUT				WATTS DISPLAY						
Sec. Volts	Sec. Amps	P.F.	TMI Coil	Run Pulses	RO Count	STD & IT % E	Standard Count		IND % E	TRUE % E	UT mA	STD std. mA	IND. % E	TRUE % E	Display Watts	STD. Watts	IND. % E	TRUE % E
							Run #1	Run #2										
115	5.0	1.0					1.0				19.96	20.00			196.0	195.0		
115	4.167	1.0					"	"			17.30	17.30			997.0	996.0		
115	2.5	1.0					"	"			11.99	11.99			598.0	598.0		
115	2.083	1.0					"	"			10.66	10.66			498.0	498.0		
115	1.042	1.0					"	"			7.34	7.34			349.1	349.0		
115	0.521	1.0					"	"			5.61	5.61			119.4	119.3		
115	0.00	1.0					"	"			4.02	4.00			0.00	0.00		

AS FOUND / AS LEFT

COMMENTS: TEST ENDING - ARTES 440 II

Test Tech: Jim Samuel Contact Information: 805) 986-7294
 Signed: Jim Samuel Cell: 805) 481-9552 577-5740
 Date: 12/17/2023
 isamuel@obgs.com obgs.com

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

Single Phase
Poly Phase



LOCATION: OBGS WORK ORDER #: 314202187
 MANUFACTURER: SEL SERIAL #: 4171 Adv. Transf. MW
 WATTS: 32 PHASE: 3 ELEMENT: 3 VOLTS: 115 VAC NOMINAL ANALOG: 4-20 mA
 P.T. RATIO: 240/1 C.T. RATIO: 1200/5 WIRE: 3 PULSE/HOUR: 5730 KE: 1.8 MULTIPLIER:
 STD. ELE.: _____ STD. SER. NO.: _____ STD. mA: _____ STD. WATTS: _____

START OF TEST

TIME:

WATT DISPLAY 0.02
WATT-HOUR COUNT: 65596.51

END OF TEST

TIME:

WATT DISPLAY 0.02
WATT-HOUR COUNT: 65599.74

TEST DATA

NOMINAL SETTINGS				DIGITAL OUTPUT				ANALOG OUTPUT				WATTS DISPLAY						
Sec. Volts	Sec. Amps	P.F.	T/M Coil	Run Pulses	RO Count	STD & IT % E	Standard Count		IND %E	TRUE %E	UT mA	STD std. mA	IND. % E	TRUE %E	Display Watts	STD. Watts	IND. %E	TRUE %E
							Run #1	Run #2										
115	5.0	1.0					1.0											
115	4.167	1.0					"	"										
115	2.5	1.0					"	"										
115	2.083	1.0					"	"										
115	1.042	1.0					"	"										
115	0.50	1.0					"	"										
115	0.00	1.0					"	"										
AS FOUND / AS LEFT																		
COMMENTS: <u>TEST EQUIP. - ARTES 440 II</u>																		

Test Tech: Jim Samuel Contact Information: 805) 986-7294
 Signed: Samuel Samuel Cell: 805) 461-0582 377-340
 Date: 12/17/2023
 Email: jsamuel@genval.com Genval.com

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

Single Phase
Poly Phase



WORK ORDER #

LOCATION: OBGS WORK ORDER # _____
 MANUFACTURER: SEL SERIAL #: 34202188
 WATTS: 54 PHASE: 3 ELEMENT: 2 NOMINAL ANALOG: 4-20 mA
 P.T RATIO: 240/1 C.T. RATIO: 2500/5 WIRE: 3 PULSE/HOUR: 2000000 Ke: 18 MULTIPLIER: _____
 STD. ELE.: _____ STD. SER. NO.: _____ STD. mA: _____ STD. WATTS: _____

START OF TEST

TIME: _____

WATT DISPLAY 0.00

WATT-HOUR COUNT: 1771578.17

END OF TEST

TIME: _____

WATT DISPLAY 0.00

WATT-HOUR COUNT: 1771593.02

TEST DATA

NOMINAL SETTINGS				DIGITAL OUTPUT				ANALOG OUTPUT				WATTS DISPLAY						
Sec. Volts	Sec. Amps	P.F.	TM Coil	Run Pulses	RO Count	STD & IT % E	Standard Count		IND % E	TRUE % E	UT mA	STD std. mA	IND. % E	TRUE % E	Display Watts	STD. Watts	IND. % E	TRUE % E
							Run #1	Run #2										
115	5.0	1.0					1.0	11	11	19.96	20.00				196.0	195.0		
115	4.167	1.0					"	"	"	17.30	17.30				997.0	996.0		
115	2.50	1.0					"	"	"	11.99	11.99				578.0	578.0		
115	2.083	1.0					"	"	"	10.66	10.66				498.0	498.0		
115	1.042	1.0					"	"	"	7.34	7.34				249.0	249.0		
115	0.50	1.0					"	"	"	5.61	5.61				17.5	17.0		
115	0.00	1.0					"	"	"	4.02	4.00				0.00	0.00		
AS FOUND / AS LEFT																		
COMMENTS: <u>TEST EQUIP. - ARTES 440 II</u>																		

Test Tech: _____ Jim Samuel Date: 12/17/2023
 Contact Information: _____ (805) 491-0562 (805) 986-7294
 Signed: Samuel Samuel Cell: _____ isamuel@mecon.com
 _____ Geobl.com

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

Single Phase
Poly Phase



WORK ORDER #:

LOCATION: OBGS WORK ORDER #: 314200189
 MANUFACTURER: SEL CIRCUIT: RESERVE A.H. TRANSFORMER SERIAL #: 115VAC
 WATTS: 30 PHASE: 3 ELEMENT: 2 MODEL: 735 NOMINAL ANALOG: 4-20 mA
 P.T. RATIO: 120/1 C.T. RATIO: 600/5 WIRE: 3 PULSE/HOUR: 7200 Kg: 1.8 MULTIPLIER: 1
 STD. ELE.: STD. SER. NO.: STD. Ke: STD. ma: STD. WATTS:

START OF TEST

END OF TEST

TIME: 0.03
 WATT DISPLAY: 0.03
 WATT-HOUR COUNT: 127637.46

TIME: 0.03
 WATT DISPLAY: 0.03
 WATT-HOUR COUNT: 127642.34

TEST DATA

NOMINAL SETTINGS				DIGITAL OUTPUT				ANALOG OUTPUT				WATTS DISPLAY									
Sec. Volts	Sec. Amps	P.F.	T/Mi Coil	Run Pulses	RO Count	STD & IT % E	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	
115	5.0	1.0					AS FOUND / AS LEFT	1.0	Minute				19.95	20.00			71.80	72.00			
115	4.167	1.0						"	"				12.30	17.30			59.80	59.75			
115	2.50	1.0						"	"				11.98	11.98			35.88	35.84			
115	2.083	1.0						"	"				10.65	10.65			29.90	29.87			
115	1.042	1.0						"	"				7.34	7.34			14.95	14.95			
115	0.50	1.0						"	"				5.61	5.61			7.18	7.18			
115	0.00	1.0						"	"				4.00	4.00			0.03	0.00			

COMMENTS: TEST EQUIP. - ARTES 44011

Test Tech: Jim Samuel Date: 12/17/2023
 Contact Information: 805) 986-7294 Email: isamuel@iri.com
 Cell: 805) 401-0662 377-5410 Website: SPG.WV.COM

COLD START-UP LOG

ORMOND BEACH POWER, LLC
ORMOND BEACH GENERATING STATION
COLD START-UP TRACKING

January 2023 through December 2023

QTR.	MONTH	UNIT #1	UNIT #2	NAB	SAB
1ST	January	1	0	2	2
	February	0	1	1	1
	March	0	0	0	0
2ND	April	1	0	5	5
	May	0	3	3	3
	June	1	0	3	3
3RD	July	1	5	11	5
	August	7	7	11	15
	September	0	0	0	0
4TH	October	1	2	7	4
	November	0	0	0	0
	December	2	0	1	1
YTD REPORTING TOTAL:		14	18	44	39

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.

**EMERGENCY GENERATOR
ANNUAL SERVICE**

**LEDDY POWER SYSTEMS, INC.
SERVICE REPORT**

Service Date		Customer ID		Contact Name / Phone No.	
10/3/2023		GenOn Holdings		John / 805-985-7309	
Service Tech ID(s)		Reference / Invoice No.		Equipment Location	
1020/1011		2735		6635 Edison Dr., Oxnard, CA 93003	
Equipment Make / Model No.		Serial No.	Spec No.	Eng. Hours (Start)	Eng. Hours (End)
CUMMINS/400DFCE		H970646232	89568B	156.1	157.5
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	277/480	STANDBY	N/A
Reason for Service		COOLANT SERVICE AND BLOCK HEATER REPLACEMENT.			
Multi-Point Inspection					
X	No Action Required	W	Warning / Action Required	N	Not Applicable
General			Cooling System		
Inspect outside of the equipment and area		W	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)		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) Trash cans that are stored next to the generator impede access and airflow to the unit.					
Detailed Service Summary					

**LEDDY POWER SYSTEMS, INC.
SERVICE REPORT**

Performed multipoint inspection, and test ran unit. Drained coolant. Removed and replaced block heater. Installed new hoses for block heater. Removed and replaced thermostat. Installed new hoses with clamps on upper and lower coolant tubes. Removed and replaced coolant filter. Filled unit with 14 gallons of coolant. Test ran unit and recorded measurements.

Recommendations/Actions Required:

1. Recommend moving all the trash cans that are stored next to the generator, so they do not impede access and airflow to the genset.

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

CARB APPROVED DIESEL FUEL USE

Leddy Power Systems, Inc.
530 Los Angeles Ave., Suite 115-145
Moorpark, CA 93021 US
+1 8055524221
info@leddypower.com



INVOICE

BILL TO

Todd Kinsey
GenOn Holdings, Inc.
Ormond Beach Generating
Facility
6635 Edison Drive
Oxnard, CA 93003

SHIP TO

Todd Kinsey
GenOn Holdings, Inc.
Ormond Beach Generating
Facility
6635 Edison Drive
Oxnard, CA 93003

INVOICE # 2614

DATE 06/10/2023

DUE DATE 06/10/2023

TERMS Due on Receipt

	QTY	RATE	AMOUNT
FUEL:DIESEL OHW DIESEL	33	7.89	260.37
FEE:ENVIRONMENTAL/HAZMAT FEE ENVIRONMENTAL/HAZMAT FEE 3%	1	7.81	7.81
<hr/>			
Delivery & dispensed on 06-07-2023		SUBTOTAL	268.18
Customer PO 4503738892-1		TAX	0.00
		TOTAL	268.18
		PAYMENT	268.18
		BALANCE DUE	\$0.00

PAID



Silvas Oil Company, Inc.
Independent Petroleum Distributor



Corporate Office
P.O. Box 1048
Fresno, CA 93714
(559) 233-5171
www.silvasoil.com
PLEASE RETURN REMITTANCE TO
ADDRESS ABOVE

ACCOUNT NUMBER: 2240

INVOICE

NUMBER: 131780

DATE: 08-02-23

SOLD TO: **GENON HOLDINGS, INC.**
"DO NOT MAIL" ORMOND BEACH
1360 POST OAK BLVD ST #2000
HOUSTON, TX 77056

SHIP TO: **NRG CALIFORNIA, SOUTH LP**
2240
GENON - ORMOND BEACH STATION
6635 S. EDISON
OXNARD, CA 93033

STATEMENTS AT THE BOTTOM ARE MADE A PART HEREOF.				PURCHASE ORDER NUMBER: 4503739107-1					
DELIVERED BY (SIGNATURE IN FULL)		RECEIVED IN GOOD ORDER		This invoice amount due on: 09-17-23					
X		X		NET 45					
NO. OF PKG'S	BULK OR PKG. SIZE	PRODUCT DELIVERED	ORDERED	DELIVERED	TAXES			PRICES	AMOUNT
					FED	STATE	SALES		
2	DRUM	NA1993, DIESEL FUEL, 3, PG III - CARB (RED) ULS DIESEL #2 DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE. FEDERAL LUST TAX	110	110	T		6.35900	699.49	
				110			0.00100	0.11	
8	EACH	DRUM17H 1A2/X400/S HAZARDOUS WASTE DRM	8	8	T		69.95000	559.60	
FOR EMERGENCY RESPONSE CALL 1-559-341-6948									
SG AR 78005744 JUSTIN 805-561-8786									
***> SALES TAX: 5.312% 37.17; 9.250% 51.76									
SALESMAN - 80		PLACARD		YES <input type="checkbox"/> NO <input type="checkbox"/>		SALES TAX MULTI		88.93	
DRUMS DELIVERED ▶ 2		DRUMS RETURNED ▶		DRUMS NET ▶ 2		20.00		40.00	
ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.								TOTAL →	1,388.13
BAKERSFIELD 661-589-5620		FRESNO 559-233-5171		KINGSBURG 559-897-5117		OXNARD 805-486-4581		SANTA MARIA 805-925-7676	

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If invoice is not paid as agreed, interest will be charged at the rate of 1.5% per month on any unpaid balance until unpaid balance is paid in full. A handling charge of \$20 will be assessed on all returned checks.
In the event of any dispute arising under or in connection with this sale, the prevailing party in such dispute shall be entitled to be reimbursed for all costs, fees, and expenses incurred in connection with prosecuting or defending such claim, including reasonable attorney's fees. Purchaser agrees that venue for any action arising under or in connection herewith shall be in State or Federal Courts located in Fresno County, California and waives the right to have any such action heard in any other court.
RETURNABLE DRUMS: In accordance with the Seller's current container policy, certain containers (including iron or steel barrels and drums) remain the property of the Seller. Container deposits paid by the customer will be refunded by Seller upon prompt return of the container in good condition.
Purchaser acknowledges that fuel may expand or contract during transport and that product measurement shall be based upon calibrated product delivery into Seller's truck as shown by Seller's supplier.
PURCHASER SHALL IDENTIFY AND HOLD HARMLESS SELLER FROM AND AGAINST ANY AND ALL LIABILITIES, CLAIMS, CAUSES OF ACTION, LOSSES, FINES, PENALTIES, ATTORNEYS' FEES, COSTS AND EXPENSES WHETHER CONTINGENT, ACCRUED, ABSOLUTE OR OTHERWISE ("CLAIMS") ARISING OUT OF OR RELATING TO THE SALE OF PRODUCT HEREUNDER ARISING FROM ANY CAUSE OTHER THAN THE GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT OF SELLER, INCLUDING, WITHOUT LIMITATION, CLAIMS OF ACTUAL OR ALLEGED CONTAMINATION OR POLLUTION FROM ANY TOXIC OR HAZARDOUS MATERIAL OR SUBSTANCE WHICH IS CLASSIFIED OR REGULATED AS TOXIC OR HAZARDOUS TO HEALTH OR THE ENVIRONMENT BY ANY GOVERNMENTAL AUTHORITY.
IN NO EVENT SHALL SELLER BE LIABLE TO PURCHASER FOR ANY PROSPECTIVE OR SPECULATIVE PROFITS OR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER BASED UPON CONTRACT, TORT OR NEGLIGENCE, OR IN ANY OTHER MANNER ARISING OUT OF OR RELATED TO THE SALE OF PRODUCT HEREUNDER.
This is to certify that the articles listed above are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.
Purchaser shall pay all applicable taxes. Applicable taxes which are payable by purchaser include all local, state and federal taxes (including but not limited to sales, use, value added, occupation, gross receipts, registration, ad valorem, excise, environmental and documentary taxes, including any interest charge or penalty that may result therefrom) and duty, fee, governmental charge or assessment levied on the sale of product hereunder. Purchaser shall furnish Seller with satisfactory tax exemption certificates prior to purchase if an exemption is claimed. Seller has included certain federal, state, local taxes, and fees on this invoice that to the best of Seller's information, knowledge, and belief, are applicable to this sale. Any tax or fee subsequently determined to be applicable to this sale and not included on this invoice will be billed to the purchaser at a later date.

TAX LEGEND:
Blank - Not subject to tax
T - Subject to tax - amount appears below
X - Exempt from tax



Silvas Oil Company, Inc.
Independent Petroleum Distributor



Corporate Office
P.O. Box 1048
Fresno, CA 93714
(559) 233-5171
www.silvasoil.com
PLEASE RETURN REMITTANCE TO
ADDRESS ABOVE

ACCOUNT NUMBER: 2240

INVOICE

NUMBER: 128512-A

DATE: 03-22-23

SOLD TO: GENON HOLDINGS, INC.

SHIP TO: NRG CALIFORNIA, SOUTH LP

"DO NOT MAIL" ORMOND BEACH
1360 POST OAK BLVD ST #2000
HOUSTON, TX 77056

GENON - ORMOND BEACH STATION
6635 S. EDISON
OXNARD, CA 93033

STATEMENTS AT THE BOTTOM ARE MADE A PART HEREOF.				PURCHASE ORDER NUMBER: 4503739107-1					
DELIVERED BY (SIGNATURE IN FULL)		RECEIVED IN GOOD ORDER		This invoice amount due on: 05-07-23					
X		X		NET 45					
NO OF PKG S	BULK OR PKG SIZE	PRODUCT DELIVERED	ORDERED	DELIVERED	TAXES			PRICES	AMOUNT
					FED	STATE	SALES		
2	DRUM	NA1993, DIESEL FUEL, 3, PG IIII - CARB (RED) ULS DIESEL #2 DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE. FEDERAL LUST TAX -NEEDS ASAP FOR EMERGENCY RESPONSE CALL 1-559-341-6948 SG AR 78005744	110	110			T	5.74900	632.39
				110				0.00100	0.11
				JUSTIN 805-986-7216					
SALESMAN - 80		PLACARD	YES <input type="checkbox"/>	NO <input type="checkbox"/>	SALES TAX		5.312	33.60	
DRUMS DELIVERED ▶		2	DRUMS RETURNED ▶		DRUMS NET ▶		2	20.00	40.00
ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.								TOTAL →	706.10
BAKERSFIELD 661-589-5620		FRESNO 559-233-5171	KINGSBURG 559-897-5117	OXNARD 805-486-4581	SANTA MARIA 805-925-7676				

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RETURNABLE DRUMS: In accordance with the Seller's current container policy, certain containers (including iron or steel barrels and drums) remain the property of the Seller. Container deposits paid by the customer will be refunded by Seller upon prompt return of the container in good condition.
Purchaser acknowledges that fuel may expand or contract during transport and that product measurement shall be based upon calibrated product delivery into Seller's truck as shown by Seller's supplier.
PURCHASER SHALL INDemnIFY AND HOLD HARMLESS SELLER FROM AND AGAINST ANY AND ALL LIABILITIES, CLAIMS, CAUSES OF ACTION, LOSSES, FINES PENALTIES, ATTORNEYS, FEES, COSTS AND EXPENSES WHETHER CONTINGENT, ACCRUED, ABSOLUTE OR OTHERWISE ("CLAIMS") ARISING OUT OF OR RELATING TO THE SALE OF PRODUCT HEREUNDER ARISING FROM ANY CAUSE OTHER THAN THE GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT OF SELLER, INCLUDING, WITHOUT LIMITATION, CLAIMS OF ACTUAL OR ALLEGED CONTAMINATION OR POLLUTION FROM ANY TOXIC OR HAZARDOUS MATERIAL OR SUBSTANCE WHICH IS CLASSIFIED OR REGULATED AS TOXIC OR HAZARDOUS TO HEALTH OR THE ENVIRONMENT BY ANY GOVERNMENTAL AUTHORITY.
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This is to certify that the articles listed above are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.
Purchaser shall pay all applicable taxes. Applicable taxes which are payable by purchaser include all local, state and federal taxes (including but not limited to sales, use, value added, occupation, gross receipts, registration, ad valorem, excise, environmental and documentary taxes, including any interest charge or penalty that may result therefrom) and duty, fee, governmental charge or assessment levied on the sale of product hereunder. Purchaser shall furnish Seller with satisfactory tax exemption certificates prior to purchase if an exemption is claimed. Seller has included certain federal, state, local taxes, and fees on this invoice that to the best of Seller's information, knowledge, and belief, are applicable to this sale. Any tax or fee subsequently determined to be applicable to this sale and not included on this invoice will be billed to the purchaser at a later date.

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Silvas Oil Company, Inc.
Independent Petroleum Distributor



Corporate Office
P.O. Box 1048
Fresno, CA 93714
(559) 233-5171
www.silvasoil.com
PLEASE RETURN REMITTANCE TO
ADDRESS ABOVE

ACCOUNT NUMBER: 2240

INVOICE

NUMBER: 128143

DATE: 03-02-23

SOLD TO: GENON HOLDINGS, INC.

SHIP TO: NRG CALIFORNIA, SOUTH LP

"DO NOT MAIL" ORMOND BEACH
1360 POST OAK BLVD ST #2000
HOUSTON, TX 77056

GENON - ORMOND BEACH STATION
6635 S. EDISON
OXNARD, CA 93033

STATEMENTS AT THE BOTTOM ARE MADE A PART HEREOF.				PURCHASE ORDER NUMBER: 4503738183-01					
DELIVERED BY (SIGNATURE IN FULL)		RECEIVED IN GOOD ORDER		This invoice amount due on: 04-17-23					
X		X		NET 45					
NO. OF PKG'S	BULK OR PKG SIZE	PRODUCT DELIVERED	ORDERED	DELIVERED	TAXES		PRICES	AMOUNT	
					FED	STATE SALES			
2	DRUM	NA1993, DIESEL FUEL, 3, PG III - CARB (RED) ULS DIESEL #2 DYED DIESEL FUEL, NONTAXABLE USE ONLY, PENALTY FOR TAXABLE USE. FEDERAL LUST TAX -NEEDS ASAP	110	110		T	5.99900	659.89	
				110			0.00100	0.11	
FOR EMERGENCY RESPONSE CALL 1-559-341-6948				JUSTIN 805-986-7216					
SG AR 78005744									
SALESMAN - 80			PLACARD		YES <input type="checkbox"/>	NO <input type="checkbox"/>	SALES TAX	5.312	35.06
DRUMS DELIVERED ▶		2	DRUMS RETURNED ▶		DRUMS NET ▶		2	20.00	40.00
ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION.							TOTAL →		735.06
BAKERSFIELD 661-589-5620		FRESNO 559-233-5171		KINGSBURG 559-897-5117		OXNARD 805-486-4581		SANTA MARIA 805-925-7676	

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RETURNABLE DRUMS: In accordance with the Seller's current container policy, certain containers (including iron or steel barrels and drums) remain the property of the Seller. Container deposits paid by the customer will be refunded by Seller upon prompt return of the container in good condition.

Purchaser acknowledges that fuel may expand or contract during transport and that product measurement shall be based upon calibrated product delivery into Seller's truck as shown by Seller's supplier.

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TAX LEGEND:



- Blank - Not subject to tax
- T - Subject to tax - amount appears below
- X - Exempt from tax

**EMERGENCY GENERATOR
RUN-TIME REPORT**

RICE/NESHAP ZZZZ Section h ANNUAL REPORT FORM
Reporting Period: January 1, 2023 through December 31, 2023
Report Due Date: March 31, 2024

You are required to comply with the National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE NESHAP). This includes requirements to comply with 40 CFR Part 63, Subpart ZZZZ, Section 63.6650(h): Stationary Reciprocating Internal Combustion Engines.
Please Note: Your APCD Permit to Operate requires the holder to furnish the information required by the RICE NESHAP regulation upon request. Failure to do so may result in enforcement action (including monetary penalties) or suspension of the APCD Permit to Operate.

Permit No: 00065

Facility name and address where the engine is located				Reporting Period					
Name:	Ormond Beach Generating Station			Start Date:	January 3, 2023				
Address:	6635 South Edison Drive			End Date:	January 2, 2024				
City:	Oxnard			Report Date:	February 1, 2024				
Engine Information									
Horsepower	Engine Model Number			Engine Serial Number		Model Year			
605	NTA855-G5			11856001		1997			
Engine Location		Latitude	3 4 . 1 3 4 2 2		Longitude	1 1 9 . 1 3 8 8 0			
Date-Time-Hours of Engine Operation				Entity Requesting Engine Operation and Reason					
Date	Start Time	End Time	#Hours	Entity		Reason			
				(see attachment)					
Please attach additional pages, if necessary:									
Number of hours the engine is contractually obligated to operate per year:						0			
Were there any deviations from the fuel requirements during the reporting period?						Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
If yes, report the number, duration, cause of deviations and the corrective action taken. Please attach additional pages, if necessary.									
Signature of person supplying the information: "I certify that the above information is correct."									
Signature:					Date: February 6, 2024				
Print Name: Thomas DiCiolli				Phone #: (805) 986-7241					
Title: Plant Manager				Email: Thomas.DiCiolli@genon.com					
Submit electronic report to: Compliance and Emissions Data Reporting Interface (CEDRI) at www.epa.gov/cdx									
Send this written report to:				For questions contact:					
Mr. Neil Hammel neil@vcapcd.org Ventura County Air Pollution Control District 4567 Telephone Road, Second Floor Ventura, CA 93003				Neil: (805) 303-3827 neil@vcapcd.org Fax: (805) 456-7797					

**ORMOND BEACH MONTHLY
EMERGENCY GENERATOR
ENGINE RUN-TIME RECORDS**


FIRST OF MONTH	EMER. GENERATOR		RUNNING 12-MONTH	OPERATIONAL REASON
	METER	RUNTIME		
Jan 2023	150.5	2.7	8.8	Maintenance
Feb 2023	153.2	0.0	8.3	No operation
Mar 2023	153.2	0.0	7.8	No operation
Apr 2023	153.2	0.3	8	Load Test
May 2023	153.5	0.5	8.5	Load Test
Jun 2023	154.0	1.3	7.6	Load Test
Jul 2023	155.3	0.0	7.1	No operation
Aug 2023	155.3	0.3	6.3	Load Test
Sep 2023	155.6	0.5	6.5	Load Test
Oct 2023	156.1	2.4	8.4	Annual Service
Nov 2023	158.5	0.1	8.1	Load Test
Dec 2023	158.6	0.0	8.1	No operation
Jan 2024	158.6	-158.6		

**EMERGENCY DIESEL ENGINE
2023 ANNUAL REPORT FORM**

Reporting Period: January 1 through December 31, 2023

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: <input type="text" value="605"/> BHp 605			
Engine Description (Manufacturer, Model, Serial Number, Cummings etc.): Model No. NTA855-G5 S/N: 11856001 Mftg. Year: 1997			
REPORTING REQUIREMENTS FOR CALENDAR YEAR 2023			
	Date of Reading		Meter Reading
First of 2023:	January 3, 2023	First of 2023:	150.5
End of 2023:	January 2, 2024	End of 2023:	158.6
Total annual hours for: Maintenance & Testing:			8.1
Hours of Emergency use:			0
Total Hours of operation:			8.1
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: 		Date: 2-9-2024	
Print Name: Thomas A. Di Ciolli		Title: Plant Manager	
Phone #: (805) 986-7241		Email: thomas.diciolli@genon.com	
SEND REPORT TO:			
Inspector Name: <input type="text" value="Steve Bova"/>		Email: <input type="text" value="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
EMERGENCY GENERATOR
ENGINE RUN-TIME RECORDS**

FIRST OF MONTH	EMER. GENERATOR		RUNNING 12-MONTH	OPERATIONAL REASON
	METER	RUNTIME		
Jan 2023	150.5	2.7	8.8	Maintenance
Feb 2023	153.2	0.0	8.3	No operation
Mar 2023	153.2	0.0	7.8	No operation
Apr 2023	153.2	0.3	8	Load Test
May 2023	153.5	0.5	8.5	Load Test
Jun 2023	154.0	1.3	7.6	Load Test
Jul 2023	155.3	0.0	7.1	No operation
Aug 2023	155.3	0.3	6.3	Load Test
Sep 2023	155.6	0.5	6.5	Load Test
Oct 2023	156.1	2.4	8.4	Annual Service
Nov 2023	158.5	0.1	8.1	Load Test
Dec 2023	158.6	0.0	8.1	No operation
Jan 2024	158.6	-158.6		

**CUMULATIVE EMISSIONS
OPERATING HOURS & FUEL USE**

Cumulative Emissions

Plant: ORB

Cumulative Emissions for: 2023

	AUX-N			AUX-S		
	GASFLOW KSCFH	UNITOPHR OpTime	UNITOPHR OpHrs	GASFLOW KSCFH	UNITOPHR OpTime	UNITOPHR OpHrs
January	2,003.3	29.9	31	1,794.8	23.9	26
February	1,443.2	24.6	26	1,293.2	20.3	21
March	0.0	0.0	0	0.0	0.0	0
April	2,573.7	38.6	42	1,544.1	25.5	28
May	3,040.7	55.9	58	2,331.3	35.0	39
June	2,354.0	27.4	30	2,319.1	26.3	29
July	8,514.1	111.1	119	3,897.9	55.7	60
August	28,521.8	276.9	288	27,965.6	284.1	296
September	0.0	0.0	0	0.0	0.0	0
October	4,928.0	69.5	78	3,787.2	46.7	51
November	0.0	0.0	0	0.0	0.0	0
December	2,938.4	26.5	28	3,017.0	28.5	29
Quarter 1	3,446.6	54.4	57	3,087.9	44.2	47
Quarter 2	7,968.4	121.9	130	6,194.5	86.7	96
Quarter 3	37,035.8	388.0	407	31,863.5	339.8	356
Quarter 4	7,866.4	96.0	106	6,804.2	75.2	80
YTD	56,317.2	660.3	700	47,950.1	545.9	579

Cumulative Emissions

Plant: ORB
Cumulative Emissions for: 2023

	ORB1			ORB2		
	GASFLOW HSCFH	UNITOPHR OpTime	UNITOPHR OpHrs	GASFLOW HSCFH	UNITOPHR OpTime	UNITOPHR OpHrs
January	79,807.2	10.6	12	130,503.9	14.1	15
February	0.0	0.0	0	39,355.4	8.9	10
March	0.0	0.0	0	0.0	0.0	0
April	772,095.4	40.5	41	0.0	0.0	0
May	0.0	0.0	0	861,650.5	46.7	49
June	1,505,092.3	75.6	76	0.0	0.0	0
July	66,362.7	8.9	10	9,059,508.5	374.9	379
August	5,118,471.0	229.3	236	7,973,841.5	341.3	349
September	0.0	0.0	0	0.0	0.0	0
October	928,298.5	46.2	47	2,686,498.6	134.8	136
November	0.0	0.0	0	0.0	0.0	0
December	56,269.4	13.1	15	0.0	0.0	0
Quarter 1	79,807.2	10.6	12	169,859.4	23.0	25
Quarter 2	2,277,187.7	116.0	117	861,650.5	46.7	49
Quarter 3	5,184,833.7	238.2	246	17,033,350.0	716.2	728
Quarter 4	984,567.9	59.3	62	2,686,498.6	134.8	136
YTD	8,526,396.5	424.1	437	20,751,358.5	920.7	938

SOLVENT & AEROSOL USE LOG

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

25. Gray Primer													
Starting Inventory	2	8	8	5	5	13	12	12	12	20	18	17	
Purchases Added	6				12				18				
Total	8		5	5	13	12	12	12	20	18	17	15	
Monthly Usage			3		4	1	0		10	2	1	2	
26. White Paint													
Starting Inventory	9	9	9	9	9	9	4	4	4	4	4	4	4
Purchases Added													
Total	9	9	9	9	9	4	4	4	4	4	4	4	4
Monthly Usage						5							
27. Semi-Gloss/Flat Black													
Starting Inventory	5	5	12	10	10	10	16	16	13	11	10	10	10
Purchases Added		12				7							
Total	5	12	10	10	10	16	16	13	11	10	10	10	10
Monthly Usage		5	2			1		3	2	1	10		
28. Gloss Black													
Starting Inventory	8	8	4	4	4	4	4	4	8	8	8	8	8
Purchases Added								6					
Total	8	4	4	4	4	4	4	8	8	8	8	8	8
Monthly Usage		4						2					
29. High Heat Aluminum Paint													
Starting Inventory	10	10	10	10	10	10	10	10	10	10	10	10	8
Purchases Added													
Total	10	10	10	10	10	10	10	10	10	10	10	8	8
Monthly Usage											2		
30. FLEX SEAL													
Starting Inventory	12	12	12	12	12	12	12	12	12	12	12	8	8
Purchases Added													
Total	12	12	12	12	12	12	12	12	12	12	12	8	8
Monthly Usage										4			
31. Dykem Aerosol Remover													
Starting Inventory	6	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	6
Monthly Usage													
32. White Lithium													
Starting Inventory	5	5	5	5	5	5	7	7	7	7	7	7	7
Purchases Added						14							
Total	5	5	5	5	5	7	7	7	7	7	7	7	7
Monthly Usage						12							

33. Glass Cleaner													
Starting Inventory	6	18	15	15	15	15	15	15	15	15	7	7	7
Purchases Added	12												
Total	18	15	15	15	15	15	15	15	15	15	7	7	7
Monthly Usage		2							6				
34. Yellow/White Marker Paint													
Starting Inventory	12	12	7	7	7	7	7	7	7	3	3	3	3
Purchases Added													
Total	12	7	7	7	7	7	7	3	3	3	3	3	3
Monthly Usage		5						4					
35. High Heat Black Paint													
Starting Inventory	7	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	7
Monthly Usage													
36. Gray(Stainless)Paint													
Starting Inventory	4	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	4
Monthly Usage													
38. Contact Cleaner													
Starting Inventory	6	15	4	13	10	9	11	14	14	8	14	17	
Purchases Added	12		35		14	8	12			17	12		
Total	15	11	13	10	9	11	14	14	8	20	17	9	
Monthly Usage	3	4	26	3	15	6	8	14	6	11	9	8	
39. Fluid Film/Linebacker													
Starting Inventory	16	14	12	7	5	5	12	12	1	7	11	11	
Purchases Added		3				16		12	12	15			
Total	14		7	5	5	12	12	1	7	22	11	11	
Monthly Usage	2	12	5	2		9		11	6	11			
40. Polyurethane Foam Sealant													
Starting Inventory	12	12	12	9	9	9	9	9	9	9	9	9	9
Purchases Added													
Total	12	12	9	9	9	9	9	9	9	9	9	9	9
Monthly Usage			3										
41. Spray Adhesive													
Starting Inventory	36	36	36	26	24	24	32	32	32	32	32	32	32
Purchases Added						10							
Total	36	36	26	24	24	32	32	32	32	32	32	32	32
Monthly Usage			10	2		2							

VISUAL EMISSIONS REPORT



December 11, 2023

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 - 2023
Report Number: W002AS-031700-RT-5315**

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 October 19, 2023. Surya Adhikari, a CARB certified visible emission evaluator (most recent re-certification performed 8/3/2023), performed the tests.

The results of the tests show that no visible emissions were observed during the tests for Unit 1, Auxiliary Boiler North, and Auxiliary Boiler South. However, visible emissions were observed for Emergency standby engine during the monitoring periods. The maximum opacity was observed at 5% for the Emergency standby engine 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,

A handwritten signature in black ink, appearing to read "Surya", with a long horizontal flourish extending to the right.

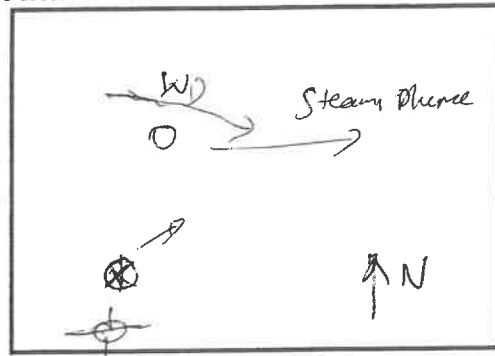
Surya Adhikari
Senior Reporting QC Specialist
Montrose Air Quality Services, LLC

SA/rcr
Attachments

ATTACHMENTS

FIGURE 9-1. RECORD OF VISUAL DETERMINATION OF OPACITY

Company: Ormond Beach Power, LLC
 Location: Unit 1
 Test No.: 1-2-3-VEE
 Date: 10/19/2023
 Type Facility: Natural gas utility Boiler
 Control Device: SCR
 Hours of Observation: 1225-1243
 Observer: Sunya Adhikari
 Observer Certification Date: 8/3/2023
 Point of Emissions: Stack
 Observer Affiliation: Montrose Environmental
 Height of Discharge Point: ~250'



KEY

- X = Observer
- ⊙ = Sun
- WD = Wind Direction
- O = Stack

CLOCK TIME	Initial	Final
Distance to Discharge	~800'	~800'
Direction from Discharge	N	N
Height of Observation Point	Ground	Ground
BACKGROUND DESCRIPTION		
WEATHER CONDITIONS		
Wind Direction	WD*	WD WS
Wind Speed	10	10
Ambient Temperature	69	69
SKY CONDITIONS (clear, over-cast, % clouds, etc.)	Clear	Clear
PLUME DESCRIPTION		
Color	Steam	Steam
Distance Visible	mile	mile
OTHER INFORMATION		

* SA 10/19

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start - End	Opacity	
		Sum	Average
1	1225-1231	0	0
2	1231-1237	0	0
3	1237-1243	0	0

Readings ranged from 0 to 0 % opacity.
 The source was not in compliance with 20% at the time the evaluation was made.



Figure 9-2. Observation record.



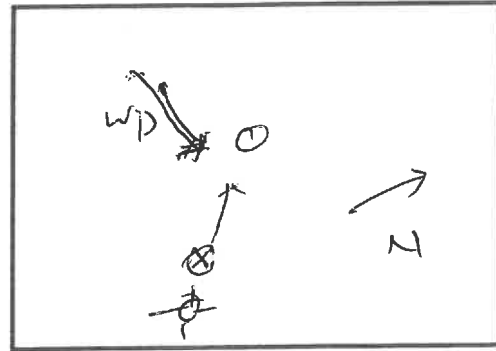
Company Ormond Beach Observer Surya Adhikari
 Location Unit 1 Type facility Utility Boiler
 Test Number 1-2-3-VEE Point of emissions Stack

HR.	MIN.	SECONDS				STEAM PLUME (check if applicable)		Comments
		0	15	30	45	ATTACHED	DETACHED	
	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							
12	25	☉	☉	☉	☉	Attached		Thick Attached
12	26	☉	☉	☉	☉	Attached		Steam plume
12	27	☉	☉	☉	☉	Attached		
12	28	☉	☉	☉	☉	Attached		Comingled with
12	29	☉	☉	☉	☉	Attached		Unit 2
12	30	☉	☉	☉	☉	Attached		
12	31	☉	☉	☉	☉	X		
12	32	☉	☉	☉	☉	X		
12	33	☉	☉	☉	☉	X		
12	34	☉	☉	☉	☉	X		
12	35	☉	☉	☉	☉	X		
12	36	☉	☉	☉	☉	X		
12	37	☉	☉	☉	☉	X		
12	38	☉	☉	☉	☉	X		
12	39	☉	☉	☉	☉	X		
12	40	☉	☉	☉	☉	X		
12	41	☉	☉	☉	☉	X		
12	42	☉	☉	☉	☉	X		
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							

R
R2
R3

FIGURE 9-1. RECORD OF VISUAL DETERMINATION OF OPACITY

Company: Ormond Beach Power, LLC
 Location: Aux Boiler - North
 Test No.: 1213 - VEE
 Date: 10/19/2023
 Type Facility: Natural gas utility boiler
 Control Device: Low Max Burner
 Hours of Observation: 1139 - 1200
 Observer: Sunya Adhikari
 Observer Certification Date: 8/3/2023
 Point of Emissions: Stack
 Observer Affiliation: Montrose Environmental
 Height of Discharge Point: ~80'



KEY

- X = Observer
- ⊗ = Sun
- WD = Wind Direction
- O = Stack

CLOCK TIME	Initial	Final
Distance to Discharge	220'	220'
Direction from Discharge	N	N
Height of Observation Point	ground	ground
BACKGROUND DESCRIPTION		
WEATHER CONDITIONS		
Wind Direction	WWS ^{1019 SA}	WWS ^{1019 SA}
Wind Speed	11	11
Ambient Temperature	69	69 ^{SA 1019}
SKY CONDITIONS (clear, over-cast, % clouds, etc.)	Clear	Clear
PLUME DESCRIPTION		
Color	none ^{SA 1019}	None
Distance Visible	none	None
OTHER INFORMATION		

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start - End	Opacity	
		Sum	Average
1	1139 - 1145	0	0
2	1145 - 1151	0	0
3	1154 - 1200	0	0

Readings ranged from 0 to 0 % opacity.
 The source was/was not in compliance with 20% at the time the evaluation was made.



Date of last revision 2/14/2017

Page 1 of 2
 Master Document Storage\Forms\Datasheets\Field Datasheets

DS834040

Figure 9-2. Observation record.



Company Ormond Beach Observer Surya Adhikari

Location Aux Boiler-North Type facility Utility Boiler

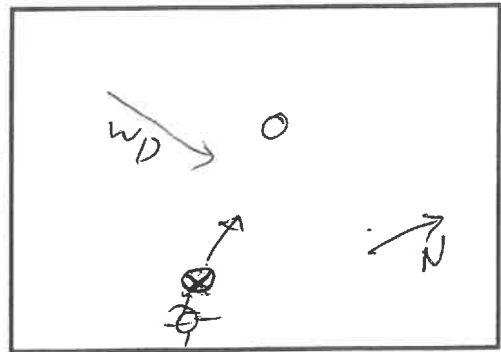
Test Number 1-2-3-VEE Point of emissions Stack

HR.	MIN.	SECONDS				STEAM PLUME (check if applicable)		Comments
		0	15	30	45	ATTACHED	DETACHED	
	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							
	28							
	29							
	30							
	31							
	32							
	33							
	34							
	35							
	36							
	37							
	38							
	39	☉	☉	☉	☉			
	40	☉	☉	☉	☉			
	41	☉	☉	☉	☉			
	42	☉	☉	☉	☉			
	43	☉	☉	☉	☉			
	44	☉	☉	☉	☉			
	45	☉	☉	☉	☉			
	46	☉	☉	☉	☉			
	47	☉	☉	☉	☉			
	48	☉	☉	☉	☉			
	49	☉	☉	☉	☉			
	50	☉	☉	☉	☉			
	51	☉	☉	☉	☉			
	52	---	---	---	---			Rest Room Break
	53	---	---	---	---			
	54	☉	☉	☉	☉			
	55	☉	☉	☉	☉			
	56	☉	☉	☉	☉			
	57	☉	☉	☉	☉			
	58	☉	☉	☉	☉			
	59	☉	☉	☉	☉			

R1
R2
R3

FIGURE 9-1. RECORD OF VISUAL DETERMINATION OF OPACITY

Company: Ormond Beach power, LLC
 Location: Aux Boiler - South
 Test No.: 1, 2, 3 - VEE
 Date: 10/19/2023
 Type Facility: Natural gas utility Boiler
 Control Device: low NOx burner
 Hours of Observation: 1120 - 1138
 Observer: Sunya Adhikari
 Observer Certification Date: 8/3/2023
 Point of Emissions: Stack
 Observer Affiliation: Montrose Environmental
 Height of Discharge Point: ~80'



KEY

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

CLOCK TIME	Initial	Final
Distance to Discharge	~200'	~200'
Direction from Discharge	N	N
Height of Observation Point	ground	ground
BACKGROUND DESCRIPTION		
WEATHER CONDITIONS		
Wind Direction	WNWS	WNWS
Wind Speed	11	11
Ambient Temperature	69	69
SKY CONDITIONS (clear, over-cast, % clouds, etc.)		
	Clear	Clear
PLUME DESCRIPTION		
Color	none	none
Distance Visible	none	none
OTHER INFORMATION		

Stack 10/19

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start - End	Opacity	
		Sum	Average
1	1120 - 1126	0	0
2	1126 - 1132	0	0
3	1132 - 1138	0	0

Readings ranged from 0 to 0 % opacity.
 The source was/was not in compliance with 20% at the time the evaluation was made.



Date of last revision 2/14/2017

Figure 9-2. Observation record.



Company Ormond Beach Observer Surya Adhikari
 Location Aux Boiler - South Type facility Utility Boiler
 Test Number 1-2-3-VEE Point of emissions Stack

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

Figure 9-2. Observation record.



Company Ormond Beach Observer Surya Adhikari

Location Emergency engine Type facility Utility Boiler

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

HR.	MIN.	SECONDS				STEAM PLUME (check if applicable)		Comments
		0	15	30	45	ATTACHED	DETACHED	
	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	10	0	0	0			
	26	00	0	0	0			
	27	10	0	0	0			
	28	00	0	0	0			
	29	10	0	0	0			
	30	00	0	0	0			
	31	10	0	0	0			gray smoke
	32	00	0	0	0			
	33	10	0	0	0			
	34	00	0	0	0			
	35	10	0	0	0			
	36	00	0	0	0			
	37	10	0	0	0			
	38	00	0	0	0			
	39	10	0	0	0			
	40	00	0	0	0			
	41	10	0	0	0			
	42	00	0	0	0			
	43							
	44							
	45							
	46							
	47							
	48							
	49							
	50							
	51							
	52							
	53							
	54							
	55							
	56							
	57							
	58							
	59							

R1

R2

R3



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 3, 2023

This certificate expires six months after the evaluation completion date.

A handwritten signature in blue ink that reads 'Heather Quiros'. The signature is written in a cursive style.

Heather Quiros, Acting Chief

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



June 7, 2023

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

Subject: Ormond Beach Unit 2 Visual Emissions Report - 2023
Report Number: W002AS-026975-RT-4718

Dear Roger,

Montrose Air Quality Services, LLC (MAQS) performed visual emission opacity observations for Ormond Beach Unit 2 on May 23, 2023. Matt McCune, a CARB certified visible emission evaluator (most recent re-certification performed 2/9/2023), 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,

A handwritten signature in black ink that reads "Matt McCune". The signature is stylized and written in a cursive-like font.

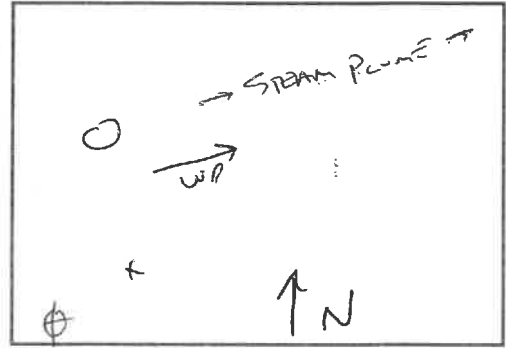
Matthew R. McCune, P.E.
Regional Vice President
Montrose Air Quality Services, LLC

MRM/rcr
Attachments

ATTACHMENTS

FIGURE 9-1. RECORD OF VISUAL DETERMINATION OF OPACITY

Company: ORMOND BEACH
 Location: UNIT 2
 Test No.: 1- 2- 3- VEE-2
 Date: 5-23-23
 Type Facility: N. GAS UTILITY BLDG
 Control Device: SCR
 Hours of Observation: 1421-1459
 Observer: MAT McCINE
 Observer Certification Date: 2-9-23
 Point of Emissions: Stack
 Observer Affiliation: MONROE
 Height of Discharge Point: ~250'



KEY

- X = Observer
- ☉ = Sun
- WD = Wind Direction
- O = Stack

CLOCK TIME	Initial	Final
Distance to Discharge	~800'	~800'
Direction from Discharge	NW	NW
Height of Observation Point	Ground	Ground
BACKGROUND DESCRIPTION	Cloudy	cloudy
WEATHER CONDITIONS		
Wind Direction	SW	SW
Wind Speed	7	7
Ambient Temperature	62	62
SKY CONDITIONS (clear, over-cast, % clouds, etc.)	Cloudy	cloudy
PLUME DESCRIPTION		
Color	STEAM/WHITE	STEAM
Distance Visible	MILE	MILE
OTHER INFORMATION		

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start - End	Opacity	
		Sum	Average
1	1421-27	0	0
2	1427-33	0	0
3	1433-39	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.



Company Ormond Beach Observer M. McCune
 Location Unit 2 Type facility Utility Boiler
 Test Number 1, 2, 3 Point of emissions Stack

HR.	MIN.	SECONDS				STEAM PLUME (check if applicable)		Comments	
		0	15	30	45	ATTACHED	DETACHED		
	0								
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								
R1	21					X		Thick, Attached Steam Plume ↓	
	22					X			
	23					X			
R2	24					X			
	25					X			
	26					X			
R3	27					X			
	28					X			
	29					X			
	30					X			
	31					X			
	32					X			
	33					X			
	34					X			
	35					X			
	36					X			
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Air Quality Training Program

Awards This Certificate To

Matt McCune

For Completion Of

MM106 - Visible Emissions Evaluation: Day Certification

In
Long Beach

On
Thursday, February 9, 2023

This certificate expires six months after the evaluation completion date.

A blue ink signature of Dr. Todd P. Sax, consisting of several loops and a long horizontal stroke.

Dr. Todd P. Sax, Chief
Enforcement Division

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

ANNUAL GAS CERTIFICATION



Analytical Services, Inc.

Environmental and Analytical Services-Since 1994
California State Accredited Laboratory in Accordance with ELAP Certificate # 2332

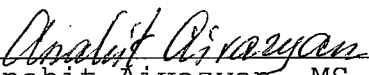
Prepared for: Ormond Beach Generating Station
6635 South Edison Drive
Oxnard, CA 93033
Attn: Roger Kahle

Report Date: November 7, 2023
Laboratory Number: 232500
Project Name: N/A
Purchase Order No: 2023 PO 4503739006
Sampled by: Roger Kahle

Enclosed are the analysis results for samples received October 18, 2023 with the Chain of Custody document. The samples were received in good condition, at 22.3°C, and they were identified and assigned the laboratory ID numbers listed below.

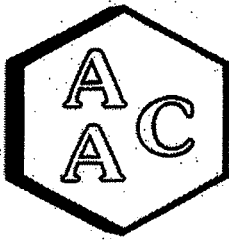
<u>SAMPLE DESCRIPTION</u>	<u>CAS LAB NUMBER ID</u>
OB-NAT GAS-231018-01-Sulfur	232500-01

By my signature below, I certify that the results contained in this laboratory report comply with applicable standards for certification by the California Department of Public Health's Environmental Laboratories Accreditation Program (ELAP), both technically and for completeness, and that, based on my inquiry of the person or persons directly responsible for performing the analyses, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.


Anahit Aivazyan, MS.
Technical Manager

If you have any further questions or concerns, please contact me at your convenience. This report consists of 8 pages excluding the cover letter and the Chain of Custody.

This report shall not be reproduced except in full without the written approval of CAS. The test results reported represent only the item being tested and may not represent the entire material from which the sample was taken.



Atmospheric Analysis & Consulting, Inc.

CLIENT : CAPCO Analytical Services, Inc.
PROJECT NAME : Annual Natural Gas
PROJECT NO. : 232500
AAC PROJECT NO. : 232145
REPORT DATE : 11/03/2023

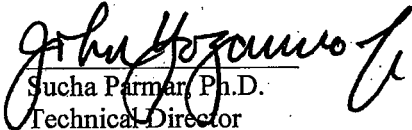
On October 18, 2023, Atmospheric Analysis & Consulting, Inc. received one (1) Tedlar Bag for BTU analysis by ASTM D-3588/5504. Upon receipt, the sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab No.
232500-01-OB Nat Gas 231018	232145-50262

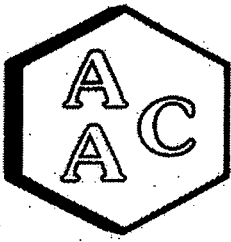
This analysis is performed in accordance with AAC's Quality Manual. Test results apply to the sample(s) as received. For detailed information pertaining to specific EPA, NCASI, ASTM and SCAQMD accreditations (Methods & Analytes), please visit our website at www.aacalab.com.

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 8 pages.



Atmospheric Analysis & Consulting, Inc.

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

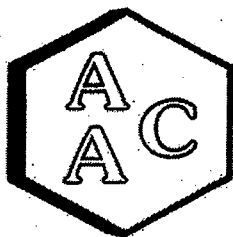
CLIENT : CAPCO Analytical Services, Inc.
PROJECT NO. : 232145

SAMPLING DATE : 10/18/2023
ANALYSIS DATE : 10/19/2023

Client ID:		232500-01-OB Nat Gas 231018			
AAC ID:		232145-50262			
Component		Mole %	Mole % SRL	Weight %	Weight % SRL
FIXED GASES	H ₂	< 1.00	1.00	< 0.001	0.001
	O ₂	0.785	0.100	1.44	0.002
	N ₂	3.76	0.100	6.05	0.001
	CO	< 0.100	0.100	< 0.001	0.001
	CO ₂	0.828	0.100	2.09	0.002
	CH ₄	90.8	0.100	83.7	0.001
	He	NM	NM	NM	NM
HYDROCARBONS	Ar	< 0.100	0.100	< 0.002	0.002
	C ₂ (as Ethane)	3.56	0.100	6.14	0.002
	C ₃ (as Propane)	0.181	0.00005	0.457	0.0001
	C ₄ (as Butane)	0.0313	0.00005	0.104	0.0002
	C ₅ (as Pentane)	0.00797	0.00005	0.0330	0.0002
	C ₆ (as Hexane)	0.00262	0.00005	0.0130	0.0002
C ₆₊ (as Hexane)	0.00263	0.00005	0.0130	0.0002	
TRS	Total Reduced Sulfur	0.000163	0.0000010	0.000319	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	21490
Carbon (C)	68.6	LHV Btu/lb	19369
Hydrogen (H)	22.4	HHV Btu/dscf	987
Oxygen (O)	2.96	LHV Btu/dscf	889
Nitrogen (N)	6.05	F-Factor	8650
Helium (He)	0.00	Relative Density	0.602
Argon (Ar)	0.00	C2-C6+ Weight %	0.00
Sulfur (S)	0.00	MW lb/lb-mole	17.4
Motor Octane Number	131	Methane Number	93.4
		Wobbe Number	1272



Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

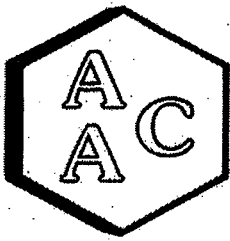
CLIENT : CAPCO Analytical Services, Inc.
PROJECT NO. : 232145
MATRIX : AIR
UNITS : ppmV

SAMPLING DATE : 10/18/2023
ANALYSIS DATE : 10/19/2023

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	232500-01-OB Nat Gas 231018
AAC ID	232145-50262
Analyte	Result
Hydrogen Sulfide	0.226
COS / SO ₂	0.160
Methyl Mercaptan	< 0.050
Ethyl Mercaptan	< 0.050
Dimethyl Sulfide	< 0.050
Carbon Disulfide	< 0.050
Isopropyl Mercaptan	< 0.050
tert-Butyl Mercaptan	0.944
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	< 0.050
2-Methylthiophene	< 0.050
3-Methylthiophene	0.404
Tetrahydrothiophene	< 0.050
Bromothiophene	< 0.050
Thiophenol	< 0.050
Diethyl Disulfide	< 0.050
Total Unidentified Sulfur	< 0.050
Total Reduced Sulfurs	1.57

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.



Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

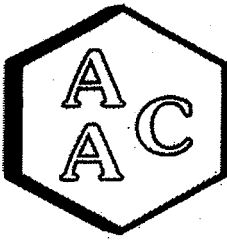
CLIENT : CAPCO Analytical Services, Inc.
PROJECT NO. : 232145
MATRIX : AIR
UNITS : grains/100 dscf

SAMPLING DATE : 10/18/2023
ANALYSIS DATE : 10/19/2023

Total Reduced Sulfur Compounds Analysis by ASTM D-5504

Client ID	232500-01-OB Nat Gas 231018
AAC ID	232145-50262
Analyte	Result
Hydrogen Sulfide	0.01377
COS / SO ₂	0.00975
Methyl Mercaptan	< 0.00305
Ethyl Mercaptan	< 0.00305
Dimethyl Sulfide	< 0.00305
Carbon Disulfide	< 0.00305
Isopropyl Mercaptan	< 0.00305
tert-Butyl Mercaptan	0.05750
n-Propyl Mercaptan	< 0.00305
Methylethylsulfide	< 0.00305
sec-Butyl Mercaptan / Thiophene	< 0.00305
iso-Butyl Mercaptan	< 0.00305
Diethyl Sulfide	< 0.00305
n-Butyl Mercaptan	< 0.00305
Dimethyl Disulfide	< 0.00305
2-Methylthiophene	< 0.00305
3-Methylthiophene	0.02461
Tetrahydrothiophene	< 0.00305
Bromothiophene	< 0.00305
Thiophenol	< 0.00305
Diethyl Disulfide	< 0.00305
Total Unidentified Sulfur	< 0.00305
Total Reduced Sulfurs	0.09587

All unidentified compound's concentrations expressed in terms of H₂S (TRS does not include COS and SO₂)
Sample Reporting Limit (SRL) is equal to Reporting Limit x Canister Dil. Fac. x Analysis Dil. Fac.



Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 10/19/2023
 Analyst : NR/RW
 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	10.2	20.2	10.0	10.0	10.0
	Result	9.8	10.0	22.1	10.0	9.0	9.8
	% Rec *	98.3	98.0	109.4	100.2	90.6	97.9

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	10.2	20.2	10.0	10.0	10.0
	LCS Result	9.9	10.0	20.9	10.2	9.2	10.0
	LCSD Result	9.8	10.2	22.1	10.0	9.0	9.9
	LCS % Rec *	99.6	98.4	103.2	101.6	91.9	99.4
	LCSD % Rec *	98.0	100.6	109.1	100.3	90.6	98.4
	% RPD ***	1.7	2.3	5.6	1.3	1.4	1.0

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

AAC ID	Analyte	H ₂	O ₂	N ₂	CH ₄	CO	CO ₂
232055-49775	Sample	0.0	9.9	46.5	0.0	0.0	0.9
	Sample Dup	0.0	9.9	46.2	0.0	0.0	0.8
	Mean	0.0	9.9	46.3	0.0	0.0	0.8
	% RPD ***	0.0	0.5	0.5	0.0	0.0	1.5

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

AAC ID	Analyte	H ₂	N ₂	CH ₄	CO	CO ₂
232055-49775	Sample Conc	0.0	23.2	0.0	0.0	0.4
	Spike Conc	10.0	10.0	10.0	10.0	10.0
	MS Result	9.7	35.0	9.9	8.9	10.1
	MSD Result	9.9	35.0	10.2	9.1	10.4
	MS % Rec **	97.7	118.6	99.1	89.5	96.8
	MSD % Rec **	99.5	118.4	101.5	91.6	99.2
	% RPD ***	1.8	0.2	2.4	2.3	2.5

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	10.2	20.2	10.0	10.0	10.0
	Result	10.2	10.0	22.6	10.4	9.4	10.3
	% Rec *	101.9	98.2	111.8	104.1	94.0	102.5

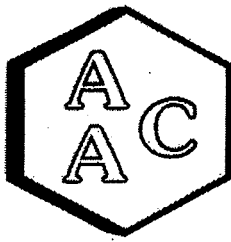
* Must be 85-115%

** Must be 75-125%

*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit



Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 10/19/2023
 Analyst : NR/RW
 Units : ppmv

Instrument ID : FID #3
 Calb Date : 01/16/23
 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	99.7	98.2	100.0	99.6	99.9	100.1
	Result	103.4	105.6	103.9	104.5	104.7	105.8
	% Rec *	103.7	107.5	104.0	104.9	104.8	105.8

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	99.7	98.2	100.0	99.6	99.9	100.1
	LCS Result	94.3	96.6	95.1	95.4	94.1	94.6
	LCSD Result	95.8	98.0	96.7	98.2	98.1	99.6
	LCS % Rec *	94.6	98.3	95.1	95.8	94.2	94.6
	LCSD % Rec *	96.1	99.8	96.7	98.6	98.2	99.5
	% RPD ***	1.5	1.5	1.7	2.9	4.2	5.1

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

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
231409-46863	Sample	1.5	0.0	0.0	0.0	0.0	0.0
	Sample Dup	1.6	0.0	0.0	0.0	0.0	0.0
	Mean	1.6	0.0	0.0	0.0	0.0	0.0
	% RPD ***	3.0	0.0	0.0	0.0	0.0	0.0

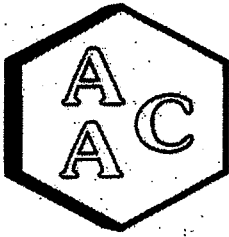
V - Matrix Spike & Duplicate - BTU/ASTM D-1945

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
231409-46863	Sample Conc	0.8	0.0	0.0	0.0	0.0	0.0
	Spike Conc	49.8	49.1	50.0	49.8	49.9	50.0
	MS Result	48.9	48.4	46.9	47.1	46.7	47.6
	MSD Result	52.6	52.5	51.2	51.8	51.8	52.4
	MS % Rec **	96.5	98.6	93.9	94.7	93.5	95.2
	MSD % Rec **	104.1	106.8	102.5	104.1	103.8	104.7
	% RPD ***	7.6	8.0	8.7	9.5	10.4	9.5

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

AAC ID	Analyte	Methane	Ethane	Propane	Butane	Pentane	Hexane
CCV	Spike Conc	99.7	98.2	100.0	99.6	99.9	100.1
	Result	104.4	107.5	104.5	106.2	107.3	111.9
	% Rec *	104.8	109.4	104.6	106.7	107.4	111.8

* Must be 85-115%
 ** Must be 75-125%
 *** Must be < 25%
 ND = Not Detected
 <RL = less than Reporting Limit



Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report ASTM D-5504

Date Analyzed: 10/19/2023
Analyst: CM/KM
Units: ppmV

Instrument ID : SCD-BTU
Calb. Date: : 6/13/23

Opening Calibration Verification Standard

0.500 ppbV H ₂ S (SS1289)				
H ₂ S	Resp. (area)	Result	% Rec *	% RPD ****
Initial	835	0.480	96.1	1.1
Duplicate	870	0.501	100.2	3.1
Triplicate	826	0.475	95.1	2.1
0.548 ppbV H ₂ S (SS1289)				
MeSH	Resp. (area)	Result	% Rec *	% RPD ****
Initial	891	0.541	98.9	0.1
Duplicate	906	0.550	100.5	1.6
Triplicate	878	0.533	97.4	1.5
0.479 ppbV H ₂ S (SS1289)				
DMS	Resp. (area)	Result	% Rec *	% RPD ****
Initial	855	0.471	98.4	0.2
Duplicate	832	0.459	95.8	2.5
Triplicate	872	0.481	100.4	2.3

Method Blank

Analyte	Result
H ₂ S	<PQL
MeSH	<PQL
DMS	<PQL

Duplicate Analysis

Sample ID 231187-45761

Analyte	Sample Result	Duplicate Result	Mean	% RPD ***
H ₂ S	<PQL	<PQL	0.000	0.0
MeSH	<PQL	<PQL	0.000	0.0
DMS	<PQL	<PQL	0.000	0.0

Matrix Spike & Duplicate

Sample ID x2

Analyte	Sample Conc.	Spike Added	MS Result	MSD Result	MS % Rec **	MSD % Rec **	% RPD ***
H ₂ S	<PQL	0.250	0.266	0.259	106.5	103.7	2.7
MeSH	<PQL	0.274	0.294	0.289	107.4	105.6	1.7
DMS	<PQL	0.240	0.240	0.237	100.2	99.0	1.3

Closing Calibration Verification Standard

Analyte	Std. Conc.	Result	% Rec **
H ₂ S	0.500	0.480	96.0
MeSH	0.548	0.529	96.6
DMS	0.479	0.455	95.0

* Must be 95-105%, ** Must be 90-110%, *** Must be < 10%, **** Must be < 5% RPD from Mean result.
PQL 50.0 ppbV
MDL 1.1 ppbV

**ORMOND BEACH GENERATING STATION
SAMPLE ANALYSIS REQUEST - CHAIN OF CUSTODY**

6635 SOUTH EDISON DRIVE

OXNARD, CA 93033

Phone: (805) 986-7291

Fax: (805) 986-7245

TO:	CAPCO Analytical Services 2978 Seaborg Avenue, Suite #4 Ventura, Ca. 93003 (805) 644-1095	10/24 10/25
------------	--	--------------------

*** Charge to Ormond Beach 2023 P.O. No: 4503739006***

TAG NO.	SAMPLE DATE	SAMPLE NUMBER					SAMPLE TIME	Natural Gas	GRAB	WATER	SOIL	SLUDGE	TYPE	Nat Gas Analysis (ASTM D1945 & D3588)	Total Rduced Sulfur (Method GC/PFPD) Gr/100 SCF
		OB-	NAT GAS-	231018-	01-	Sulfur									
1	18-Oct-23	OB-	NAT GAS-	231018-	01-	Sulfur	9:10	X	X				TEDLAR	X	X
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															

Comments:


Please email results when available.

For additional information or questions contact Roger Kahle at (805) 341-6167

Roger.Kahle@GenOn.com

HANDLING	SAME DAY		72 HOURS		OTHER	CAPCO Sample Number 232500
	24 HOURS		5 DAYS			
	48 HOURS		STANDARD	X	DISPOSE OF SAMPLE	

The undersigned hereby acknowledges having received a copy of the fee schedule/general information and conditions, the provisions of which are part of this agreement.

RELINQUISHED BY OBGS (name & signature):	DATE	TIME	RECEIVED BY (name & signature)
Roger Kahle 	18-Oct-23	1012	
RELINQUISHED BY (name & signature):	DATE	TIME	:RECEIVED BY CAPCO LAB (name & signature):

ASBESTOS NOTIFICATION



Asbestos Notification Form ENF-62 for Demolition or Renovation

Ventura County Air Pollution Control District
 4567 Telephone Road, 2nd Floor Ventura, California 93003
 Contact: Ken Hall 805/303-3709 or
 Tod Neilan 805/303-3706 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		Owner/Contractor Project #	
<input checked="" type="radio"/> Original <input type="radio"/> Revised <input type="radio"/> Cancelled IF REVISION, state: Change in amount, start/completion date, other?		17D	
Annual Asbestos Notification Original - 2023			
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: Scott Warnock	TELEPHONE: 805-984-5217	Email: Scott.Warnock@genon.c	
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: 310-808-8070	
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: 10/10/2023	
III. TYPE OF OPERATION			
<input type="checkbox"/> DEMO <input type="checkbox"/> ORDERED DEMO <input checked="" type="checkbox"/> RENOVATION <input type="checkbox"/> EMERGENCY RENOVATION <i>Demo definition: Removal of load bearing wall.</i>			
IV. IS ASBESTOS PRESENT? <input checked="" type="radio"/> YES <input type="radio"/> 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 - Bulh 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)	If demolition: Amount of nonfriable asbestos containing material subject to Rule 62.7.C:
		UNITS	
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: 1/1/2023	Complete: 12/31/2023
IX. SCHEDULED DEMO DATES (mm/dd/yyyy):		Start:	Complete:

VCAPCD Notification No. _____



NOTIFICATION OF DEMOLITION OR RENOVATION (continued)

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

Equipment and pipelagging insulation removal and disposal from unit 1,2 utilizing wet met

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

12/16/2022

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

12/16/2022

PRINT OWNER/OPERATOR NAME

SIGNATURE OF OWNER/OPERATOR

DATE

SUBMIT



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 Tod Neilan at (805) 303-3706.

RELATIVE ACCURACY TEST AUDIT

**TEST REPORT FOR
2023 EPA 40 CFR, PART 75 ANNUAL
RELATIVE ACCURACY TEST AUDIT AT
ORMOND BEACH POWER, LLC
UNIT 2**

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

Matt McCune

Test Date: **May 23, 2023**
Production Date: **June 7, 2023**
Report Number: **W002AS-026975-RT-4715**



CONFIDENTIALITY STATEMENT

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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 2. 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 May 23, 2023. 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 Matt McCune, Luis Olivera, and Leandrew Escobeda. Matt McCune was the on-site Qualified Individual for MAQS. Roger Kahle and Mike Escarcega 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 O₂ 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 2 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 2 CEMS passed the RATA because the Relative Accuracy between the reference method and the Unit 2 CEMS was 0.0% which meets the 10% criteria of EPA 40 CFR, Part 75 and also meets the annual incentive criteria of < 7.5%. Therefore, the next RATA will be due on an annual basis.

**TABLE 1-1
 RESULTS SUMMARY
 ORMOND BEACH GENERATING STATION
 UNIT 2
 MAY 23, 2023**

Parameter	Results	Limit
Relative Accuracy	0.0%	10% or +/-0.02 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 2 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 264 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 O₂ concentrations. The system is equipped with a dual range NO_x analyzer (Component/System ID # = 011/101) and a single range O₂ 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 2**

Component	Manufacturer	Model	Serial Number	Range(s)
NO _x Analyzer	TECO	42CHL	42CHL-66202-351	0-10/250 ppm
O ₂ Analyzer	Thermox	2000	10202873	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 O₂ concentrations and fuel F-Factor using the following equation:

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

Where:

M = NO_x emission rate (lb/MMBtu)

ppm = NO_x concentration (ppmv, dry)

F = EPA Method 19 F-Factor (dscf/MMBtu)

% O₂ = O₂ 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 O₂ 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:

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

Where:

RA = relative accuracy

$|\bar{d}|$ = 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

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

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 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:

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

3.1 REFERENCE METHODS

NO_x and O₂ 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 O₂ 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 O₂ 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 #700). The analyzer was operated on a 0-10 ppm range during the test. The analyzer is equipped with a carbon NO₂ - 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 Relative Accuracy between the reference method and CEMS was 0.0% which meets the 10% criteria of EPA 40 CFR, Part 75 and also meets the annual incentive criteria of < 7.5%.

**TABLE 4-1
 NO_x LB/MMBTU RELATIVE ACCURACY TEST RESULTS
 ORMOND BEACH GENERATING STATION
 UNIT 2**

Station: Ormond Beach
Unit: 2
Date: 5/23/2023

Parameter: NO_x
Units: lb/MMBtu
Performed By: MM, LO, LE

Test	Date	Time		RM NO _x lb/MMBtu	CEMS NO _x lb/MMBtu	Difference NO _x lb/MMBtu	Valid Run (1=Yes, 0=No)
		Start	Stop				
1	5/23/2023	10:20	10:41	0.008	0.008	0.000	1
2	5/23/2023	10:50	11:11	0.008	0.008	0.000	1
3	5/23/2023	11:20	11:41	0.008	0.008	0.000	1
4	5/23/2023	11:56	12:17	0.008	0.008	0.000	1
5	5/23/2023	12:23	12:44	0.008	0.008	0.000	1
6	5/23/2023	12:50	13:11	0.008	0.008	0.000	1
7	5/23/2023	13:22	13:43	0.008	0.008	0.000	1
8	5/23/2023	13:49	14:10	0.008	0.008	0.000	1
9	5/23/2023	14:41	15:02	0.008	0.008	0.000	1
Average				0.008	0.008	0.000	--

Reference Method Average:	0.008	lb/MMBtu	Limit
Average Difference:	0.000	lb/MMBtu	--
Number of Tests:	9	--	--
Standard Deviation:	0.0000	lb/MMBtu	--
t Value:	2.306	--	--
Confidence Coefficient:	0.000	lb/MMBtu	--
Relative Accuracy:	0.0	%	10%
Bias Adjustment Factor:	1.000	--	--
Test Condition:	264	MW	--

(1) Since d is not less than CC, the system does not pass the bias test. (Note d = CC = 0.000)

(2) RA is less than 10%, CEMS passes RATA

(3) RA is less than 7.5%, CEMS meets the annual incentive.

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 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**

Location: Ormond Beach
Unit: 2

Date: 5/23/2023
By: MM, LO, LE, AE

Stack Area (ft²): 804.2
Stack Diameter (in.): 384.0
Coupling Length (in.): 12

Downstream Disturbances: > 2.0 diameters
Upstream Disturbances: > 0.5 diameters

Point	CEMS Sample Points (Long Line)			CEMS Sample Points (Short Line)		
	% 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

**ABBREVIATED STRATIFICATION CHECK
EPA "LONG LINE"
Ormond Beach Unit 2**



Date	Time	O ₂	NO _x		O ₂ Avg.	NO _x Avg.
5/23/2023	9:31:00 AM	4.996	1.789			
5/23/2023	9:32:00 AM	5.077	1.873	Point 1	5.04	1.83
5/23/2023	9:38:00 AM	5.03	2.48			
5/23/2023	9:39:00 AM	4.858	2.568	Point 3	4.94	2.52
5/23/2023	9:41:00 AM	4.822	2.884			
5/23/2023	9:42:00 AM	4.923	2.941	Point 2	4.87	2.91

Average	4.95	2.42
Maximum	5.04	2.91
Minimum	4.87	1.83
Maximum Difference from Average	0.09	0.59
Max Difference (% of average)	1.7%	24.4%
Status	Pass	Pass

Average Data

Plant: ORMOND BEACH GEN STA

Interval: 1 Minute

Type: Roll

Report Period: 05/23/2023 09:30 Through 05/23/2023 09:41

Time Online Criteria: 1 minute(s)

U-2 STRATIF. TEST

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#MMW (LB/MMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)	
05/23/23 09:30	25,235.4	261.0	0.00	0.002	0.025	1.74	1.90	4.90	1.0	
05/23/23 09:31	25,062.3	261.4	0.00	0.002	0.026	1.80	2.01	4.93	1.0	
05/23/23 09:32	25,144.7	262.3	0.00	0.003	0.026	1.87	2.13	4.85	1.0	
05/23/23 09:33	25,380.4	263.3	0.00	0.003	0.027	1.93	2.11	4.76	1.0	
05/23/23 09:34	25,370.5	262.7	0.00	0.003	0.028	2.00	2.22	4.84	1.0	
05/23/23 09:35	25,501.5	265.9	0.00	0.003	0.030	2.14	2.33	4.79	1.0	
05/23/23 09:36	25,361.3	263.4	0.00	0.003	0.032	2.23	2.46	4.86	1.0	
05/23/23 09:37	25,674.7	267.4	0.00	0.003	0.033	2.37	2.65	4.74	1.0	
05/23/23 09:38	25,668.7	268.0	0.00	0.003	0.035	2.47	2.78	4.79	1.0	
05/23/23 09:39	25,754.6	266.9	0.00	0.004	0.036	2.55	2.89	4.75	1.0	
05/23/23 09:40	26,090.6	270.3	0.00	0.004	0.039	2.78	3.09	4.65	1.0	
05/23/23 09:41	25,836.3	268.4	0.00	0.004	0.041	2.88	3.22	4.83	1.0	
Average	25,506.8	265.1	0.00	0.003	0.032	2.23	2.48	4.81	1.0	
Minimum	25,062.3	261.0	0.00	0.002	0.025	1.74	1.90	4.65	1.0	
Maximum	26,090.6	270.3	0.00	0.004	0.041	2.88	3.22	4.93	1.0	
Summation	306,081.0	3,181.0	0.00	0.037	0.378	26.76	29.79	57.69	12.0	
Included Data Points	12	12	12	12	12	12	12	12	12	
Total number of Data Points	12	12	12	12	12	12	12	12	12	

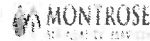
F = Unit Offline E = Exceedance C = Calibration S = Substituted I = Invalid
M = Maintenance T = Out Of Control * = Suspect U = Startup D = Shutdown

Appendix A.2

Reference Method Data Logger Data

Montrose Air Quality Services, LLC

RUN NUMBER 1 RM DAS



RM 1-MINUTE AVERAGE DATA				
RUN NUMBER 1				
Date	Time	O ₂	NO _x	CO
5/23/2023	10:21:00 AM	5.009	5.601	10.579
5/23/2023	10:22:00 AM	5.043	5.58	5.013
5/23/2023	10:23:00 AM	5.048	5.927	5.75
5/23/2023	10:24:00 AM	4.994	5.912	5.51
5/23/2023	10:25:00 AM	5.164	5.751	3.587
5/23/2023	10:26:00 AM	5.015	5.856	2.453
5/23/2023	10:27:00 AM	5.007	5.645	6.938
5/23/2023	10:28:00 AM	5.026	5.612	3.91
5/23/2023	10:29:00 AM	4.975	5.817	3.738
5/23/2023	10:30:00 AM	4.947	5.957	3.271
5/23/2023	10:31:00 AM	5.073	5.727	7.864
5/23/2023	10:32:00 AM	4.899	5.909	3.847
5/23/2023	10:33:00 AM	4.892	5.831	9.047
5/23/2023	10:34:00 AM	5.039	5.734	6.41
5/23/2023	10:35:00 AM	4.927	5.786	5.462
5/23/2023	10:36:00 AM	4.974	5.712	7.779
5/23/2023	10:37:00 AM	5.021	5.851	4.241
5/23/2023	10:38:00 AM	4.867	5.811	7.888
5/23/2023	10:39:00 AM	4.982	5.668	9.46
5/23/2023	10:40:00 AM	4.903	5.85	3.366
5/23/2023	10:41:00 AM	4.989	5.823	7.106
Average		4.99	5.78	5.87

Pt 3 Avg.	5.040	5.753	5.690
Pt 2 Avg.	4.979	5.798	5.441
Pt 1 Avg.	4.952	5.786	6.472

Montrose Air Quality Services, LLC

RUN NUMBER 2 RM DAS

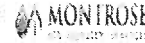


RM 1-MINUTE AVERAGE DATA				
RUN NUMBER 2				
Date	Time	O ₂	NO _x	CO
5/23/2023	10:51:00 AM	4.995	5.764	6.574
5/23/2023	10:52:00 AM	5.137	5.651	4.517
5/23/2023	10:53:00 AM	5.052	5.865	1.797
5/23/2023	10:54:00 AM	5.154	5.791	3.227
5/23/2023	10:55:00 AM	5.081	5.749	3.516
5/23/2023	10:56:00 AM	5.109	5.585	4.961
5/23/2023	10:57:00 AM	5.152	5.643	2.708
5/23/2023	10:58:00 AM	5.019	5.723	6.252
5/23/2023	10:59:00 AM	5.135	5.808	3.652
5/23/2023	11:00:00 AM	5.016	6.039	1.966
5/23/2023	11:01:00 AM	4.99	5.724	5.056
5/23/2023	11:02:00 AM	5.115	5.582	4.982
5/23/2023	11:03:00 AM	4.989	5.666	3.714
5/23/2023	11:04:00 AM	5.145	5.729	3.254
5/23/2023	11:05:00 AM	4.957	5.884	4.678
5/23/2023	11:06:00 AM	4.994	5.836	5.5
5/23/2023	11:07:00 AM	5.139	5.65	2.643
5/23/2023	11:08:00 AM	5.061	5.776	1.448
5/23/2023	11:09:00 AM	4.943	5.759	7.828
5/23/2023	11:10:00 AM	5.019	5.546	5.412
5/23/2023	11:11:00 AM	5.058	5.616	4.245
Average		5.06	5.73	4.19

Pt 3 Avg.	5.097	5.721	3.900
Pt 2 Avg.	5.058	5.753	4.125
Pt 1 Avg.	5.024	5.724	4.536

Montrose Air Quality Services, LLC

RUN NUMBER 3 RM DAS

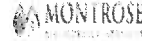


RM 1-MINUTE AVERAGE DATA				
RUN NUMBER 3				
Date	Time	O ₂	NO _x	CO
5/23/2023	11:21:00 AM	5.188	5.556	4.785
5/23/2023	11:22:00 AM	5.082	5.64	3.216
5/23/2023	11:23:00 AM	5.185	5.595	3.902
5/23/2023	11:24:00 AM	5.133	5.686	2.682
5/23/2023	11:25:00 AM	5.063	5.848	3.861
5/23/2023	11:26:00 AM	5.142	5.808	3.759
5/23/2023	11:27:00 AM	5.058	5.711	4.692
5/23/2023	11:28:00 AM	5.083	5.622	5.185
5/23/2023	11:29:00 AM	5.049	5.698	4.802
5/23/2023	11:30:00 AM	5.098	5.701	3.448
5/23/2023	11:31:00 AM	5.107	5.826	2.452
5/23/2023	11:32:00 AM	5.107	5.75	2.705
5/23/2023	11:33:00 AM	4.973	5.72	4.178
5/23/2023	11:34:00 AM	5.053	5.602	7.992
5/23/2023	11:35:00 AM	4.987	5.636	6.434
5/23/2023	11:36:00 AM	5.081	5.755	4.025
5/23/2023	11:37:00 AM	5.002	5.846	2.99
5/23/2023	11:38:00 AM	5.067	5.851	3.482
5/23/2023	11:39:00 AM	4.944	5.709	5.108
5/23/2023	11:40:00 AM	4.982	5.68	5.961
5/23/2023	11:41:00 AM	4.984	5.601	8.504
Average		5.07	5.71	4.48

Pt 3 Avg.	5.122	5.692	3.842
Pt 2 Avg.	5.067	5.703	4.395
Pt 1 Avg.	5.007	5.725	5.215

Montrose Air Quality Services, LLC

RUN NUMBER 4 RM DAS



RM 1-MINUTE AVERAGE DATA				
RUN NUMBER 4				
Date	Time	O ₂	NO _x	CO
5/23/2023	11:57:00 AM	5.187	5.536	
5/23/2023	11:58:00 AM	5.021	5.657	
5/23/2023	11:59:00 AM	5.103	5.582	
5/23/2023	12:00:00 PM	4.995	5.529	
5/23/2023	12:01:00 PM	5.178	5.519	
5/23/2023	12:02:00 PM	4.994	5.552	
5/23/2023	12:03:00 PM	5.194	5.618	
5/23/2023	12:04:00 PM	4.972	5.753	
5/23/2023	12:05:00 PM	5	5.769	
5/23/2023	12:06:00 PM	4.978	5.702	
5/23/2023	12:07:00 PM	5.024	5.69	
5/23/2023	12:08:00 PM	5.023	5.687	
5/23/2023	12:09:00 PM	5.074	5.634	
5/23/2023	12:10:00 PM	5.012	5.889	
5/23/2023	12:11:00 PM	4.987	5.943	
5/23/2023	12:12:00 PM	5.09	5.899	
5/23/2023	12:13:00 PM	4.926	5.888	
5/23/2023	12:14:00 PM	4.953	5.652	
5/23/2023	12:15:00 PM	5.074	5.6	
5/23/2023	12:16:00 PM	4.893	5.679	
5/23/2023	12:17:00 PM	4.975	5.849	
Average		5.03	5.70	

Pt 3 Avg.	5.096	5.570
Pt 2 Avg.	5.012	5.732
Pt 1 Avg.	4.985	5.787

Montrose Air Quality Services, LLC

RUN NUMBER 5 RM DAS



RM 1-MINUTE AVERAGE DATA			
RUN NUMBER 5			
Date	Time	O ₂	NO _x
5/23/2023	12:24:00 PM	5.035	5.765
5/23/2023	12:25:00 PM	5.084	5.696
5/23/2023	12:26:00 PM	5.207	5.679
5/23/2023	12:27:00 PM	5.057	5.779
5/23/2023	12:28:00 PM	4.992	5.7
5/23/2023	12:29:00 PM	5.245	5.564
5/23/2023	12:30:00 PM	5.048	5.825
5/23/2023	12:31:00 PM	5.031	5.816
5/23/2023	12:32:00 PM	5.015	5.75
5/23/2023	12:33:00 PM	5.094	5.636
5/23/2023	12:34:00 PM	5.09	5.745
5/23/2023	12:35:00 PM	4.967	5.798
5/23/2023	12:36:00 PM	5.032	5.801
5/23/2023	12:37:00 PM	4.962	5.771
5/23/2023	12:38:00 PM	5.095	5.749
5/23/2023	12:39:00 PM	5.033	5.765
5/23/2023	12:40:00 PM	5.103	5.721
5/23/2023	12:41:00 PM	4.986	5.864
5/23/2023	12:42:00 PM	4.99	5.777
5/23/2023	12:43:00 PM	5.086	5.758
5/23/2023	12:44:00 PM	4.935	5.925
Average		5.05	5.76

Pt 3 Avg.	5.095	5.715
Pt 2 Avg.	5.027	5.760
Pt 1 Avg.	5.033	5.794

Montrose Air Quality Services, LLC

RUN NUMBER 6 RM DAS



RM 1-MINUTE AVERAGE DATA			
RUN NUMBER 6			
Date	Time	O ₂	NO _x
5/23/2023	12:51:00 PM	5.117	5.534
5/23/2023	12:52:00 PM	5.1	5.647
5/23/2023	12:53:00 PM	5.034	5.751
5/23/2023	12:54:00 PM	5.078	5.696
5/23/2023	12:55:00 PM	5.149	5.657
5/23/2023	12:56:00 PM	5.079	5.648
5/23/2023	12:57:00 PM	5.015	5.663
5/23/2023	12:58:00 PM	5.112	5.615
5/23/2023	12:59:00 PM	5.036	5.683
5/23/2023	1:00:00 PM	4.979	5.768
5/23/2023	1:01:00 PM	4.942	5.853
5/23/2023	1:02:00 PM	4.907	5.779
5/23/2023	1:03:00 PM	5.085	5.679
5/23/2023	1:04:00 PM	5.041	5.772
5/23/2023	1:05:00 PM	4.937	5.771
5/23/2023	1:06:00 PM	4.963	5.704
5/23/2023	1:07:00 PM	4.956	5.918
5/23/2023	1:08:00 PM	4.971	5.826
5/23/2023	1:09:00 PM	4.991	5.739
5/23/2023	1:10:00 PM	5.005	5.684
5/23/2023	1:11:00 PM	5.019	5.649
Average		5.02	5.72

Pt 3 Avg.	5.082	5.657
Pt 2 Avg.	5.015	5.736
Pt 1 Avg.	4.977	5.756

Montrose Air Quality Services, LLC

RUN NUMBER 7 RM DAS

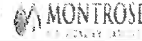


RM 1-MINUTE AVERAGE DATA RUN NUMBER 7			
Date	Time	O ₂	NO _x
5/23/2023	1:23:00 PM	5.097	5.648
5/23/2023	1:24:00 PM	5.074	5.63
5/23/2023	1:25:00 PM	5.096	5.639
5/23/2023	1:26:00 PM	5.071	5.768
5/23/2023	1:27:00 PM	5.037	5.816
5/23/2023	1:28:00 PM	5.129	5.767
5/23/2023	1:29:00 PM	5.043	5.684
5/23/2023	1:30:00 PM	5.118	5.7
5/23/2023	1:31:00 PM	4.998	5.707
5/23/2023	1:32:00 PM	4.967	5.711
5/23/2023	1:33:00 PM	4.939	5.684
5/23/2023	1:34:00 PM	5.048	5.756
5/23/2023	1:35:00 PM	4.928	5.731
5/23/2023	1:36:00 PM	5.019	5.708
5/23/2023	1:37:00 PM	5.022	5.887
5/23/2023	1:38:00 PM	4.961	5.862
5/23/2023	1:39:00 PM	5.026	5.922
5/23/2023	1:40:00 PM	4.982	5.838
5/23/2023	1:41:00 PM	4.964	5.73
5/23/2023	1:42:00 PM	5.036	5.65
5/23/2023	1:43:00 PM	5.045	5.635
Average		5.03	5.74

Pt 3 Avg.	5.078	5.707
Pt 2 Avg.	5.002	5.714
Pt 1 Avg.	5.005	5.789

Montrose Air Quality Services, LLC

RUN NUMBER 8 RM DAS



RM 1-MINUTE AVERAGE DATA			
RUN NUMBER 8			
Date	Time	O ₂	NO _x
5/23/2023	1:50:00 PM	5.091	5.742
5/23/2023	1:51:00 PM	5.054	5.706
5/23/2023	1:52:00 PM	5.032	5.74
5/23/2023	1:53:00 PM	5.107	5.803
5/23/2023	1:54:00 PM	5.102	5.688
5/23/2023	1:55:00 PM	5.13	5.686
5/23/2023	1:56:00 PM	5.056	5.681
5/23/2023	1:57:00 PM	5.09	5.72
5/23/2023	1:58:00 PM	4.975	5.753
5/23/2023	1:59:00 PM	5.073	5.708
5/23/2023	2:00:00 PM	5.04	5.713
5/23/2023	2:01:00 PM	4.977	5.712
5/23/2023	2:02:00 PM	5.027	5.696
5/23/2023	2:03:00 PM	5.042	5.783
5/23/2023	2:04:00 PM	4.933	5.782
5/23/2023	2:05:00 PM	5.073	5.75
5/23/2023	2:06:00 PM	4.939	5.803
5/23/2023	2:07:00 PM	5.01	5.806
5/23/2023	2:08:00 PM	5.016	5.838
5/23/2023	2:09:00 PM	5.053	5.855
5/23/2023	2:10:00 PM	5.071	5.721
Average		5.04	5.75

Pt 3 Avg.	5.082	5.721
Pt 2 Avg.	5.032	5.726
Pt 1 Avg.	5.014	5.794

Montrose Air Quality Services, LLC

RUN NUMBER 9 RM DAS



RM 1-MINUTE AVERAGE DATA			
RUN NUMBER 9			
Date	Time	O ₂	NO _x
5/23/2023	2:42:00 PM	4.968	5.67
5/23/2023	2:43:00 PM	5.001	5.521
5/23/2023	2:44:00 PM	4.918	5.597
5/23/2023	2:45:00 PM	4.939	5.61
5/23/2023	2:46:00 PM	4.919	5.752
5/23/2023	2:47:00 PM	4.87	5.637
5/23/2023	2:48:00 PM	4.962	5.649
5/23/2023	2:49:00 PM	4.917	5.755
5/23/2023	2:50:00 PM	4.958	5.782
5/23/2023	2:51:00 PM	4.94	5.906
5/23/2023	2:52:00 PM	4.991	5.758
5/23/2023	2:53:00 PM	4.924	5.843
5/23/2023	2:54:00 PM	4.974	5.812
5/23/2023	2:55:00 PM	5.043	5.789
5/23/2023	2:56:00 PM	4.89	5.777
5/23/2023	2:57:00 PM	4.996	5.655
5/23/2023	2:58:00 PM	4.987	5.694
5/23/2023	2:59:00 PM	4.877	5.785
5/23/2023	3:00:00 PM	4.997	5.705
5/23/2023	3:01:00 PM	4.885	5.781
5/23/2023	3:02:00 PM	4.968	5.704
Average		4.95	5.72

Pt 3 Avg.	4.940	5.634
Pt 2 Avg.	4.964	5.806
Pt 1 Avg.	4.943	5.729

Reference Method DAS

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	7:26:00	0	0.04	-0.125	
5/23/2023	7:27:00	-0.004	0.017	-0.114	Zero
5/23/2023	7:28:00	6.325	7.19	102.531	
5/23/2023	7:29:00	8.935	9.276	473.471	
5/23/2023	7:30:00	8.937	9.167	476.304	
5/23/2023	7:31:00	8.938	9.118	475.577	High
5/23/2023	7:32:00	5.647	5.364	379.296	
5/23/2023	7:33:00	4.534	4.722	227.504	Mid
5/23/2023	7:34:00	2.505	4.245	215.602	
5/23/2023	7:35:00	0.006	6.398	53.181	
5/23/2023	7:36:00	-0.003	6.535	3.546	NO2
5/23/2023	7:37:00	-0.068	1.243	0.248	
5/23/2023	7:38:00	4.451	0.088	0.193	
5/23/2023	7:39:00	10.758	0.055	0.213	
5/23/2023	7:40:00	10.757	0.045	0.271	
5/23/2023	7:41:00	10.757	0.042	0.262	
5/23/2023	7:42:00	10.757	0.052	0.221	
5/23/2023	7:43:00	10.757	0.041	0.192	
5/23/2023	7:44:00	10.757	0.039	0.189	
5/23/2023	7:45:00	10.757	0.03	0.187	
5/23/2023	7:46:00	10.757	0.03	0.188	
5/23/2023	7:47:00	10.757	0.044	0.095	
5/23/2023	7:48:00	10.757	0.025	0.161	
5/23/2023	7:49:00	10.757	0.028	0.111	
5/23/2023	7:50:00	10.757	0.023	0.192	
5/23/2023	7:51:00	10.757	0.023	0.195	
5/23/2023	7:52:00	10.757	0.036	0.145	
5/23/2023	7:53:00	10.757	0.037	0.159	
5/23/2023	7:54:00	10.757	0.028	0.19	
5/23/2023	7:55:00	10.756	0.035	0.139	
5/23/2023	7:56:00	10.757	0.027	0.309	
5/23/2023	7:57:00	10.756	0.023	0.149	
5/23/2023	7:58:00	10.756	0.027	0.228	
5/23/2023	7:59:00	10.756	0.028	0.19	
5/23/2023	8:00:00	10.756	0.028	0.118	
5/23/2023	8:01:00	10.757	0.025	0.081	
5/23/2023	8:02:00	10.545	0.134	0.089	
5/23/2023	8:03:00	6.305	1.079	2.936	
5/23/2023	8:04:00	6.025	1.055	12.282	
5/23/2023	8:05:00	6.119	0.984	58.055	
5/23/2023	8:06:00	6.382	0.997	50.634	
5/23/2023	8:07:00	6.319	1.011	31.596	
5/23/2023	8:08:00	6.505	1.02	25.809	
5/23/2023	8:09:00	6.453	0.975	70.267	
5/23/2023	8:10:00	6.27	1.03	151.843	
5/23/2023	8:11:00	6.22	1.049	38.543	

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	8:12:00	6.204	1.027	63.817	
5/23/2023	8:13:00	6.122	1.027	88.98	
5/23/2023	8:14:00	6.257	1.048	48.309	
5/23/2023	8:15:00	6.032	1.071	35.262	
5/23/2023	8:16:00	6.239	1.109	24.401	
5/23/2023	8:17:00	5.996	1.154	7.329	
5/23/2023	8:18:00	6.045	1.134	6.433	
5/23/2023	8:19:00	5.836	1.136	13.339	
5/23/2023	8:20:00	5.812	1.135	8.438	
5/23/2023	8:21:00	5.618	1.128	11.581	
5/23/2023	8:22:00	5.68	1.104	12.662	
5/23/2023	8:23:00	5.535	1.102	7.946	
5/23/2023	8:24:00	5.261	1.048	120.656	
5/23/2023	8:25:00	5.087	1.013	394.954	
5/23/2023	8:26:00	5.121	0.983	444.94	
5/23/2023	8:27:00	5.007	0.99	429.728	
5/23/2023	8:28:00	5.013	0.969	407.656	
5/23/2023	8:29:00	4.602	0.958	539.158	
5/23/2023	8:30:00	4.715	0.96	539.153	
5/23/2023	8:31:00	4.72	0.975	539.158	
5/23/2023	8:32:00	4.559	1.006	539.149	
5/23/2023	8:33:00	4.864	1.03	391.597	
5/23/2023	8:34:00	4.711	1.145	83.319	
5/23/2023	8:35:00	4.876	1.167	43.249	
5/23/2023	8:36:00	4.975	1.225	9.434	
5/23/2023	8:37:00	4.876	1.183	22.352	
5/23/2023	8:38:00	4.955	1.198	15.839	
5/23/2023	8:39:00	4.93	1.186	19.779	
5/23/2023	8:40:00	4.824	1.203	19.692	
5/23/2023	8:41:00	4.873	1.195	17.84	
5/23/2023	8:42:00	4.881	1.21	20.841	
5/23/2023	8:43:00	4.959	0.56	20.379	
5/23/2023	8:44:00	4.476	0.04	1.283	Syst O2
5/23/2023	8:45:00	1.848	2.854	-0.221	
5/23/2023	8:46:00	0.013	4.692	0.047	Syst NOx
5/23/2023	8:47:00	0.01	2.829	3.717	
5/23/2023	8:48:00	0.007	0.035	172.124	
5/23/2023	8:49:00	0.006	0.027	225.886	
5/23/2023	8:50:00	0.005	0.031	225.594	
5/23/2023	8:51:00	0.004	0.033	225.536	Syst CO
5/23/2023	8:52:00	3.366	0.918	185.935	
5/23/2023	8:53:00	4.978	1.292	15.545	
5/23/2023	8:54:00	4.937	1.298	25.472	
5/23/2023	8:55:00	4.934	1.303	12.302	
5/23/2023	8:56:00	4.968	1.308	17.89	
5/23/2023	8:57:00	4.989	1.306	7.641	
5/23/2023	8:58:00	4.921	1.299	12.549	
5/23/2023	8:59:00	5.027	1.308	9.885	
5/23/2023	9:00:00	4.979	1.304	5.704	

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	9:01:00	4.916	1.299	11.33	
5/23/2023	9:02:00	5.051	1.307	12.882	
5/23/2023	9:03:00	5.046	1.313	5.724	
5/23/2023	9:04:00	5.014	1.308	7.067	
5/23/2023	9:05:00	4.921	1.3	13.864	
5/23/2023	9:06:00	5.033	1.301	9.783	
5/23/2023	9:07:00	4.998	1.328	14.329	
5/23/2023	9:08:00	5.154	1.296	10.157	
5/23/2023	9:09:00	5.287	1.271	3.661	
5/23/2023	9:10:00	5.103	1.3	2.523	
5/23/2023	9:11:00	5.152	1.287	5.814	
5/23/2023	9:12:00	4.97	1.307	14.06	
5/23/2023	9:13:00	4.997	1.313	11.152	
5/23/2023	9:14:00	4.852	1.349	20.547	
5/23/2023	9:15:00	4.967	1.35	20.954	
5/23/2023	9:16:00	4.945	1.37	10.097	
5/23/2023	9:17:00	4.943	1.389	22.532	
5/23/2023	9:18:00	5.02	1.41	10.136	
5/23/2023	9:19:00	4.988	1.448	8.823	
5/23/2023	9:20:00	5.031	1.455	8.597	
5/23/2023	9:21:00	5.082	1.483	7.44	
5/23/2023	9:22:00	4.991	1.505	5.481	
5/23/2023	9:23:00	5.119	1.512	8.937	
5/23/2023	9:24:00	4.993	1.564	4.476	
5/23/2023	9:25:00	5.074	1.566	9.415	
5/23/2023	9:26:00	5.25	1.578	4.673	
5/23/2023	9:27:00	5.142	1.625	2.652	Start Long Line Strat Check
5/23/2023	9:28:00	4.952	1.664	12.247	
5/23/2023	9:29:00	5.151	1.673	10.203	
5/23/2023	9:30:00	5.133	1.714	2.409	Start Long Line Strat Check
5/23/2023	9:31:00	4.996	1.789	10.553	W-1
5/23/2023	9:32:00	5.077	1.873	8.56	W-1
5/23/2023	9:33:00	5.083	1.92	5.614	
5/23/2023	9:34:00	9.825	0.4	7.257	
5/23/2023	9:35:00	10.756	0.026	0.431	
5/23/2023	9:36:00	10.756	0.026	0.029	
5/23/2023	9:37:00	10.756	0.099	0.032	
5/23/2023	9:38:00	5.03	2.48	2.847	E-1
5/23/2023	9:39:00	4.858	2.568	21.284	E-1
5/23/2023	9:40:00	4.885	2.691	19.309	
5/23/2023	9:41:00	4.822	2.884	26.393	E-2
5/23/2023	9:42:00	4.923	2.941	26.453	E-2
5/23/2023	9:43:00	4.832	2.741	9.492	
5/23/2023	9:44:00	4.488	0.057	13.678	
5/23/2023	9:45:00	4.508	0.03	-0.136	Syst O2
5/23/2023	9:46:00	1.586	3.134	-0.343	
5/23/2023	9:47:00	0.01	4.727	-0.007	Syst NOx
5/23/2023	9:48:00	0.007	1.327	32.919	
5/23/2023	9:49:00	0.005	0.006	216.411	

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	9:50:00	0.002	0.023	225.844	Syst CO
5/23/2023	9:51:00	2.385	2.241	212.02	
5/23/2023	9:52:00	4.886	4.674	38.041	
5/23/2023	9:53:00	4.864	4.875	32.631	
5/23/2023	9:54:00	4.952	5.205	12.139	
5/23/2023	9:55:00	4.836	5.435	19.518	
5/23/2023	9:56:00	4.954	5.592	15.471	
5/23/2023	9:57:00	4.989	5.865	8.687	
5/23/2023	9:58:00	5.009	6.134	6.793	
5/23/2023	9:59:00	5.04	6.327	3.74	
5/23/2023	10:00:00	5.07	6.604	1.337	
5/23/2023	10:01:00	5.04	6.747	6.137	
5/23/2023	10:02:00	5.083	6.991	3.277	
5/23/2023	10:03:00	5.047	7.193	4.295	
5/23/2023	10:04:00	5.127	7.251	5.943	
5/23/2023	10:05:00	5.136	7.441	4.582	
5/23/2023	10:06:00	5.144	7.508	5.394	
5/23/2023	10:07:00	5.047	5.87	4.031	
5/23/2023	10:08:00	5.081	3.656	8.075	
5/23/2023	10:09:00	5.106	4.294	6.314	
5/23/2023	10:10:00	5.078	6.06	3.838	
5/23/2023	10:11:00	5.028	6.003	7.122	
5/23/2023	10:12:00	5.126	4.965	6.412	
5/23/2023	10:13:00	5.015	5.117	4.918	
5/23/2023	10:14:00	4.983	5.759	9.49	
5/23/2023	10:15:00	5.14	5.928	6.666	
5/23/2023	10:16:00	5.006	5.61	3.983	
5/23/2023	10:17:00	4.983	5.432	11.139	
5/23/2023	10:18:00	5.084	5.592	6.739	
5/23/2023	10:19:00	5.043	5.944	3.262	
5/23/2023	10:20:00	4.908	5.814	9.662	Start Run 1
5/23/2023	10:21:00	5.009	5.601	10.579	Pt 3
5/23/2023	10:22:00	5.043	5.58	5.013	Pt 3
5/23/2023	10:23:00	5.048	5.927	5.75	Pt 3
5/23/2023	10:24:00	4.994	5.912	5.51	Pt 3
5/23/2023	10:25:00	5.164	5.751	3.587	Pt 3
5/23/2023	10:26:00	5.015	5.856	2.453	Pt 3
5/23/2023	10:27:00	5.007	5.645	6.938	Pt 3
5/23/2023	10:28:00	5.026	5.612	3.91	Pt 2
5/23/2023	10:29:00	4.975	5.817	3.738	Pt 2
5/23/2023	10:30:00	4.947	5.957	3.271	Pt 2
5/23/2023	10:31:00	5.073	5.727	7.864	Pt 2
5/23/2023	10:32:00	4.899	5.909	3.847	Pt 2
5/23/2023	10:33:00	4.892	5.831	9.047	Pt 2
5/23/2023	10:34:00	5.039	5.734	6.41	Pt 2
5/23/2023	10:35:00	4.927	5.786	5.462	Pt 1
5/23/2023	10:36:00	4.974	5.712	7.779	Pt 1
5/23/2023	10:37:00	5.021	5.851	4.241	Pt 1
5/23/2023	10:38:00	4.867	5.811	7.888	Pt 1
5/23/2023	10:39:00	4.982	5.668	9.46	Pt 1

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	10:40:00	4.903	5.85	3.366	Pt 1
5/23/2023	10:41:00	4.989	5.823	7.106	End 1
5/23/2023	10:42:00	4.372	1.412	13.617	
5/23/2023	10:43:00	4.512	0.046	2.824	Syst O2
5/23/2023	10:44:00	1.385	3.367	-0.319	
5/23/2023	10:45:00	0.004	4.769	-0.059	Syst NOx
5/23/2023	10:46:00	0	1.447	30.582	
5/23/2023	10:47:00	-0.001	0.038	216.338	
5/23/2023	10:48:00	-0.001	0.029	226.161	Syst CO
5/23/2023	10:49:00	3.3	3.627	190.393	
5/23/2023	10:50:00	5.122	5.573	15.597	Start 2
5/23/2023	10:51:00	4.995	5.764	6.574	Pt 3
5/23/2023	10:52:00	5.137	5.651	4.517	Pt 3
5/23/2023	10:53:00	5.052	5.865	1.797	Pt 3
5/23/2023	10:54:00	5.154	5.791	3.227	Pt 3
5/23/2023	10:55:00	5.081	5.749	3.516	Pt 3
5/23/2023	10:56:00	5.109	5.585	4.961	Pt 3
5/23/2023	10:57:00	5.152	5.643	2.708	Pt 3
5/23/2023	10:58:00	5.019	5.723	6.252	Pt 2
5/23/2023	10:59:00	5.135	5.808	3.652	Pt 2
5/23/2023	11:00:00	5.016	6.039	1.966	Pt 2
5/23/2023	11:01:00	4.99	5.724	5.056	Pt 2
5/23/2023	11:02:00	5.115	5.582	4.982	Pt 2
5/23/2023	11:03:00	4.989	5.666	3.714	Pt 2
5/23/2023	11:04:00	5.145	5.729	3.254	Pt 2
5/23/2023	11:05:00	4.957	5.884	4.678	Pt 1
5/23/2023	11:06:00	4.994	5.836	5.5	Pt 1
5/23/2023	11:07:00	5.139	5.65	2.643	Pt 1
5/23/2023	11:08:00	5.061	5.776	1.448	Pt 1
5/23/2023	11:09:00	4.943	5.759	7.828	Pt 1
5/23/2023	11:10:00	5.019	5.546	5.412	Pt 1
5/23/2023	11:11:00	5.058	5.616	4.245	End Run 2
5/23/2023	11:12:00	4.37	1.288	11.864	
5/23/2023	11:13:00	4.516	0.059	2.382	Syst O2
5/23/2023	11:14:00	1.908	2.835	-0.323	
5/23/2023	11:15:00	0.005	4.737	-0.082	Syst NOx
5/23/2023	11:16:00	0.001	1.571	26.616	
5/23/2023	11:17:00	0	0.047	213.702	
5/23/2023	11:18:00	0	0.029	226.102	Syst CO
5/23/2023	11:19:00	3.248	3.754	191.846	
5/23/2023	11:20:00	5.114	5.729	15.273	Start Run 3
5/23/2023	11:21:00	5.188	5.556	4.785	Pt 3
5/23/2023	11:22:00	5.082	5.64	3.216	Pt 3
5/23/2023	11:23:00	5.185	5.595	3.902	Pt 3
5/23/2023	11:24:00	5.133	5.686	2.682	Pt 3
5/23/2023	11:25:00	5.063	5.848	3.861	Pt 3
5/23/2023	11:26:00	5.142	5.808	3.759	Pt 3
5/23/2023	11:27:00	5.058	5.711	4.692	Pt 3
5/23/2023	11:28:00	5.083	5.622	5.185	Pt 2
5/23/2023	11:29:00	5.049	5.698	4.802	Pt 2

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	11:30:00	5.098	5.701	3.448	Pt 2
5/23/2023	11:31:00	5.107	5.826	2.452	Pt 2
5/23/2023	11:32:00	5.107	5.75	2.705	Pt 2
5/23/2023	11:33:00	4.973	5.72	4.178	Pt 2
5/23/2023	11:34:00	5.053	5.602	7.992	Pt 2
5/23/2023	11:35:00	4.987	5.636	6.434	Pt 1
5/23/2023	11:36:00	5.081	5.755	4.025	Pt 1
5/23/2023	11:37:00	5.002	5.846	2.99	Pt 1
5/23/2023	11:38:00	5.067	5.851	3.482	Pt 1
5/23/2023	11:39:00	4.944	5.709	5.108	Pt 1
5/23/2023	11:40:00	4.982	5.68	5.961	Pt 1
5/23/2023	11:41:00	4.984	5.601	8.504	End 3
5/23/2023	11:42:00	4.348	1.234	13.211	
5/23/2023	11:43:00	4.514	0.053	2.251	Syst O2
5/23/2023	11:44:00	1.284	3.478	-0.304	
5/23/2023	11:45:00	0.002	4.751	-0.051	Syst NOx
5/23/2023	11:46:00	-0.001	2.342	9.168	
5/23/2023	11:47:00	-0.003	0.041	194.127	
5/23/2023	11:48:00	-0.005	0.034	226.433	Syst CO
5/23/2023	11:49:00	-0.001	0.014	143.412	
5/23/2023	11:50:00	-0.013	0.018	1.565	
5/23/2023	11:51:00	-0.014	0.018	-0.13	Zero
5/23/2023	11:52:00	3.851	4.292	89.499	
5/23/2023	11:53:00	4.529	4.738	226.189	
5/23/2023	11:54:00	4.529	4.731	226.757	Span
5/23/2023	11:55:00	3.706	4.463	204.945	
5/23/2023	11:56:00	5.111	5.569	26.606	Start Run 4
5/23/2023	11:57:00	5.187	5.536	0.198	Pt 3
5/23/2023	11:58:00	5.021	5.657	-0.038	Pt 3
5/23/2023	11:59:00	5.103	5.582	-0.037	Pt 3
5/23/2023	12:00:00	4.995	5.529	-0.028	Pt 3
5/23/2023	12:01:00	5.178	5.519	-0.036	Pt 3
5/23/2023	12:02:00	4.994	5.552	-0.032	Pt 3
5/23/2023	12:03:00	5.194	5.618	-0.031	Pt 3
5/23/2023	12:04:00	4.972	5.753	-0.022	Pt 2
5/23/2023	12:05:00	5	5.769	-0.018	Pt 2
5/23/2023	12:06:00	4.978	5.702	-0.023	Pt 2
5/23/2023	12:07:00	5.024	5.69	-0.031	Pt 2
5/23/2023	12:08:00	5.023	5.687	-0.04	Pt 2
5/23/2023	12:09:00	5.074	5.634	-0.035	Pt 2
5/23/2023	12:10:00	5.012	5.889	-0.028	Pt 2
5/23/2023	12:11:00	4.987	5.943	-0.024	Pt 1
5/23/2023	12:12:00	5.09	5.899	-0.014	Pt 1
5/23/2023	12:13:00	4.926	5.888	-0.03	Pt 1
5/23/2023	12:14:00	4.953	5.652	-0.027	Pt 1
5/23/2023	12:15:00	5.074	5.6	-0.032	Pt 1
5/23/2023	12:16:00	4.893	5.679	-0.029	Pt 1
5/23/2023	12:17:00	4.975	5.849	-0.027	End 4
5/23/2023	12:18:00	4.496	3.723	-0.031	
5/23/2023	12:19:00	4.518	0.083	-0.113	Syst O2

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	12:20:00	3.571	1.131	-0.099	
5/23/2023	12:21:00	0.012	4.76	-0.013	Syst NOx
5/23/2023	12:22:00	1.614	5.041	-0.034	
5/23/2023	12:23:00	5.172	5.634	-0.036	Start 5
5/23/2023	12:24:00	5.035	5.765	-0.034	Pt 3
5/23/2023	12:25:00	5.084	5.696	-0.005	Pt 3
5/23/2023	12:26:00	5.207	5.679	-0.031	Pt 3
5/23/2023	12:27:00	5.057	5.779	-0.037	Pt 3
5/23/2023	12:28:00	4.992	5.7	0.011	Pt 3
5/23/2023	12:29:00	5.245	5.564	-0.018	Pt 3
5/23/2023	12:30:00	5.048	5.825	-0.02	Pt 3
5/23/2023	12:31:00	5.031	5.816	0.01	Pt 2
5/23/2023	12:32:00	5.015	5.75	-0.026	Pt 2
5/23/2023	12:33:00	5.094	5.636	-0.031	Pt 2
5/23/2023	12:34:00	5.09	5.745	-0.018	Pt 2
5/23/2023	12:35:00	4.967	5.798	0.023	Pt 2
5/23/2023	12:36:00	5.032	5.801	-0.031	Pt 2
5/23/2023	12:37:00	4.962	5.771	-0.036	Pt 2
5/23/2023	12:38:00	5.095	5.749	0.068	Pt 1
5/23/2023	12:39:00	5.033	5.765	-0.028	Pt 1
5/23/2023	12:40:00	5.103	5.721	0.044	Pt 1
5/23/2023	12:41:00	4.986	5.864	0.012	Pt 1
5/23/2023	12:42:00	4.99	5.777	-0.027	Pt 1
5/23/2023	12:43:00	5.086	5.758	0.061	Pt 1
5/23/2023	12:44:00	4.935	5.925	-0.03	End 5
5/23/2023	12:45:00	4.48	3.495	-0.069	
5/23/2023	12:46:00	4.516	0.087	-0.02	Syst O2
5/23/2023	12:47:00	3.319	1.379	-0.09	
5/23/2023	12:48:00	0.01	4.841	0.003	Syst NOx
5/23/2023	12:49:00	0.014	4.801	-0.001	
5/23/2023	12:50:00	4.926	5.583	0.036	Start 6
5/23/2023	12:51:00	5.117	5.534	-0.017	Pt 3
5/23/2023	12:52:00	5.1	5.647	0.06	Pt 3
5/23/2023	12:53:00	5.034	5.751	0.071	Pt 3
5/23/2023	12:54:00	5.078	5.696	-0.011	Pt 3
5/23/2023	12:55:00	5.149	5.657	0.008	Pt 3
5/23/2023	12:56:00	5.079	5.648	0.094	Pt 3
5/23/2023	12:57:00	5.015	5.663	-0.028	Pt 3
5/23/2023	12:58:00	5.112	5.615	0.064	Pt 2
5/23/2023	12:59:00	5.036	5.683	0.06	Pt 2
5/23/2023	13:00:00	4.979	5.768	0.049	Pt 2
5/23/2023	13:01:00	4.942	5.853	0.081	Pt 2
5/23/2023	13:02:00	4.907	5.779	0.045	Pt 2
5/23/2023	13:03:00	5.085	5.679	0.121	Pt 2
5/23/2023	13:04:00	5.041	5.772	0.091	Pt 2
5/23/2023	13:05:00	4.937	5.771	0.068	Pt 1
5/23/2023	13:06:00	4.963	5.704	0.068	Pt 1
5/23/2023	13:07:00	4.956	5.918	0.018	Pt 1
5/23/2023	13:08:00	4.971	5.826	0.066	Pt 1
5/23/2023	13:09:00	4.991	5.739	0.058	Pt 1

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	13:10:00	5.005	5.684	0.09	Pt 1
5/23/2023	13:11:00	5.019	5.649	0.121	
5/23/2023	13:12:00	4.963	5.773	0.053	
5/23/2023	13:13:00	4.394	2.853	0.001	
5/23/2023	13:14:00	4.515	0.09	-0.022	Syst O2
5/23/2023	13:15:00	2.88	1.88	-0.062	
5/23/2023	13:16:00	0.008	4.794	0.072	Syst NOx
5/23/2023	13:17:00	0.004	0.71	-0.007	
5/23/2023	13:18:00	-0.008	0.017	0.031	Zero
5/23/2023	13:19:00	3.586	4.036	0.079	
5/23/2023	13:20:00	4.529	4.744	0.006	Span
5/23/2023	13:21:00	2.357	5.032	0.107	
5/23/2023	13:22:00	5.095	5.588	0.068	Start 7
5/23/2023	13:23:00	5.097	5.648	0.074	Pt 3
5/23/2023	13:24:00	5.074	5.63	0.081	Pt 3
5/23/2023	13:25:00	5.096	5.639	0.052	Pt 3
5/23/2023	13:26:00	5.071	5.768	0.084	Pt 3
5/23/2023	13:27:00	5.037	5.816	0.089	Pt 3
5/23/2023	13:28:00	5.129	5.767	-0.006	Pt 3
5/23/2023	13:29:00	5.043	5.684	0.062	Pt 3
5/23/2023	13:30:00	5.118	5.7	0.022	Pt 2
5/23/2023	13:31:00	4.998	5.707	0.093	Pt 2
5/23/2023	13:32:00	4.967	5.711	0.038	Pt 2
5/23/2023	13:33:00	4.939	5.684	0.03	Pt 2
5/23/2023	13:34:00	5.048	5.756	0.108	Pt 2
5/23/2023	13:35:00	4.928	5.731	0.043	Pt 2
5/23/2023	13:36:00	5.019	5.708	0.119	Pt 2
5/23/2023	13:37:00	5.022	5.887	0.13	Pt 1
5/23/2023	13:38:00	4.961	5.862	0.062	Pt 1
5/23/2023	13:39:00	5.026	5.922	0.07	Pt 1
5/23/2023	13:40:00	4.982	5.838	0.052	Pt 1
5/23/2023	13:41:00	4.964	5.73	0.097	Pt 1
5/23/2023	13:42:00	5.036	5.65	0.037	Pt 1
5/23/2023	13:43:00	5.045	5.635	0.114	End 7
5/23/2023	13:44:00	4.394	2.509	0.001	
5/23/2023	13:45:00	4.522	0.097	-0.006	Syst O2
5/23/2023	13:46:00	1.906	2.841	0.079	
5/23/2023	13:47:00	0.009	4.8	0.054	Syst NOx
5/23/2023	13:48:00	2.635	5.241	0.086	
5/23/2023	13:49:00	5.107	5.688	0.121	Start 8
5/23/2023	13:50:00	5.091	5.742	0.042	Pt 3
5/23/2023	13:51:00	5.054	5.706	0.12	Pt 3
5/23/2023	13:52:00	5.032	5.74	0.04	Pt 3
5/23/2023	13:53:00	5.107	5.803	0.122	Pt 3
5/23/2023	13:54:00	5.102	5.688	0.118	Pt 3
5/23/2023	13:55:00	5.13	5.686	0.12	Pt 3
5/23/2023	13:56:00	5.056	5.681	0.1	Pt 3
5/23/2023	13:57:00	5.09	5.72	0.112	Pt 2
5/23/2023	13:58:00	4.975	5.753	0.096	Pt 2
5/23/2023	13:59:00	5.073	5.708	0.119	Pt 2

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	14:00:00	5.04	5.713	0.07	Pt 2
5/23/2023	14:01:00	4.977	5.712	0.122	Pt 2
5/23/2023	14:02:00	5.027	5.696	0.071	Pt 2
5/23/2023	14:03:00	5.042	5.783	0.122	Pt 2
5/23/2023	14:04:00	4.933	5.782	0.122	Pt 1
5/23/2023	14:05:00	5.073	5.75	0.027	Pt 1
5/23/2023	14:06:00	4.939	5.803	0.115	Pt 1
5/23/2023	14:07:00	5.01	5.806	0.105	Pt 1
5/23/2023	14:08:00	5.016	5.838	0.124	Pt 1
5/23/2023	14:09:00	5.053	5.855	0.102	Pt 1
5/23/2023	14:10:00	5.071	5.721	0.123	End 8
5/23/2023	14:11:00	4.471	2.691	0.056	
5/23/2023	14:12:00	4.526	0.103	0	Syst O2
5/23/2023	14:13:00	2.012	2.676	0.081	
5/23/2023	14:14:00	0.01	4.747	0.108	Syst NOx
5/23/2023	14:15:00	2.334	5.234	0.119	
5/23/2023	14:16:00	5.035	5.716	0.123	
5/23/2023	14:17:00	5.066	5.65	0.125	
5/23/2023	14:18:00	5.076	5.628	0.087	
5/23/2023	14:19:00	5.103	5.574	0.116	
5/23/2023	14:20:00	5.062	5.741	0.123	
5/23/2023	14:21:00	5.059	5.686	0.125	
5/23/2023	14:22:00	5.144	5.671	0.13	
5/23/2023	14:23:00	5.058	5.72	0.124	
5/23/2023	14:24:00	5.07	5.766	0.127	
5/23/2023	14:25:00	5.053	5.747	0.13	
5/23/2023	14:26:00	5.057	5.736	0.121	
5/23/2023	14:27:00	4.943	5.703	0.133	
5/23/2023	14:28:00	4.983	5.641	0.121	
5/23/2023	14:29:00	5.026	5.652	0.095	
5/23/2023	14:30:00	4.945	5.684	0.122	
5/23/2023	14:31:00	5.04	5.743	0.127	
5/23/2023	14:41:00	NaN	NaN	NaN	Data Logger error 14:31 - 14:41/Start R
5/23/2023	14:42:00	4.968	5.67	0.121	Pt 3
5/23/2023	14:43:00	5.001	5.521	0.122	Pt 3
5/23/2023	14:44:00	4.918	5.597	0.117	Pt 3
5/23/2023	14:45:00	4.939	5.61	0.118	Pt 3
5/23/2023	14:46:00	4.919	5.752	0.126	Pt 3
5/23/2023	14:47:00	4.87	5.637	0.12	Pt 3
5/23/2023	14:48:00	4.962	5.649	0.12	Pt 3
5/23/2023	14:49:00	4.917	5.755	0.128	Pt 2
5/23/2023	14:50:00	4.958	5.782	0.123	Pt 2
5/23/2023	14:51:00	4.94	5.906	0.124	Pt 2
5/23/2023	14:52:00	4.991	5.758	0.123	Pt 2
5/23/2023	14:53:00	4.924	5.843	0.12	Pt 2
5/23/2023	14:54:00	4.974	5.812	0.126	Pt 2
5/23/2023	14:55:00	5.043	5.789	0.123	Pt 2
5/23/2023	14:56:00	4.89	5.777	0.128	Pt 1
5/23/2023	14:57:00	4.996	5.655	0.125	Pt 1
5/23/2023	14:58:00	4.987	5.694	0.119	Pt 1

Date	Time	O ₂ %	NO _x PPM	CO PPM	Comments
5/23/2023	14:59:00	4.877	5.785	0.126	Pt 1
5/23/2023	15:00:00	4.997	5.705	0.124	Pt 1
5/23/2023	15:01:00	4.885	5.781	0.121	Pt 1
5/23/2023	15:02:00	4.968	5.704	0.119	End 9
5/23/2023	15:03:00	4.443	2.484	0.07	
5/23/2023	15:04:00	4.518	0.131	0.041	Syst O2
5/23/2023	15:05:00	2.406	2.279	0.073	
5/23/2023	15:06:00	0.007	4.78	0.117	Syst NOx
5/23/2023	15:07:00	-0.003	0.806	0.048	
5/23/2023	15:08:00	-0.011	0.024	0.032	Zero
5/23/2023	15:09:00	3.837	4.266	0.102	
5/23/2023	15:10:00	4.531	4.745	0.109	Span

Appendix A.3

Quality Assurance Data

Montrose Air Quality Services, LLC
CEMS Performance Data Sheet



Client: Ormond Beach Power, LLC
 Location: Ormond Beach Unit 2
 CEMS ID#: Cube

Date: 5/23/2023
 Performed By: MM, LO, LE, AE

Analyzer:	O ₂	CO ₂	NO _x	CO	SO ₂
Manufacturer:	CAI	--	CAI	Thermo	--
Serial Number:	Z08006-M		2203012	812329452	
CEMS Probe:	Material: S.S.		Length: 10'20'	Gas Temp: 200 °F	
Heated Line	Material: Teflon		Length: 35'	Gas Temp: 313 °F	
Sample Conditioner:			Type: Universal	Gas Temp: 33 °F	
CEMS Line:	Material: Teflon		Length: 150'		
Bias Line:	Material: Teflon		Length: 150'		
Upscale Response Time:	45		Downscale Response Time:	45	seconds
Sample Pressure (psi):	4		Sample Flow Rate:	9	SCFH

Montrose Air Quality Services, LLC
SPAN GAS RECORD AND CALIBRATION ERROR



CLIENT/LOCATION: Ormond Beach Unit 2
 TRUCK/CEM I.D.: Cube

DATE: 5/23/23
 BY: MM, LO, LE, AE

	CYLINDER NO.	CONCENTRATION	Expiration Date	Vendor ID
ZERO	CC40169	0.0	12/9/2027	F22022
O ₂	CC755408	4.54	8/24/2030	F22022
O ₂	SA10524	8.94	1/16/2031	F22023
NO _x	DT0042444	4.790	5/11/2025	F22022
NO _x	CC757982	9.13	9/8/2025	F22022
CO	CC755368	228.7	7/11/2030	F22022
CO	DT0035931	475.6	4/21/2028	F22020
NO ₂	DT0028293	7.03	3/22/2024	F22023

PRE-TEST INSTRUMENT CALIBRATION ERROR

	ANALYZER				STATUS
	O ₂	NO _x	CO		
Calibration Span	8.94	9.13	475.6		
Zero Gas Value	0.0	0.0	0.0		--
Analyzer Reads	0.00	0.02	-0.11		--
Error (% of scale)	0.0%	0.2%	0.0%		PASS
High Gas Value	8.94	9.13	475.6		--
Analyzer Reads	8.94	9.12	475.58		--
Error (% of scale)	0.0%	-0.1%	0.0%		PASS
Mid Gas Value	4.54	4.79	228.7		--
Analyzer Reads	4.53	4.72	227.50		--
Error (% of scale)	-0.1%	-0.7%	-0.3%		PASS

Montrose Air Quality Services, LLC
NO_x to NO Converter Efficiency Test



Analyzer Manufacturer: CAI	NO Cal Gas Value: 9.130
Analyzer Model: 700	NO ₂ Cal Gas Value: 7.03
Analyzer Serial Number: 2203012	Performed By: MM, LO, LE, AE
Date: 5/23/23	CEMS ID#: Cube

GAS	ANALYZER MODE	ANALYZER RESPONSE	CAL CORRECTED	LABEL
Zero	NO _x	0.02	--	--
NO	NO _x	9.12	--	--
NO ₂	NO _x	6.54	6.54	C ₂

	Requirement
CE = D ₂ /D ₁ * 100%: 93%	> 90%

	Cylinder #	Exp. Date
NO bottle:	CC757982	9/8/2025
NO ₂ bottle:	DT0028293	3/22/2024



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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: 08/24/2022
Linde Order Number: 72847783
Part Number: NI CD8.505E-AS
Customer PO Number: LUIS OLIVARES

Fill Date: 08/18/2022
Lot Number: 70088223006
Cylinder Style & Outlet: AS CGA 580
Cylinder Pressure and Volume: 2000 psig 146 ft³

Certified Concentration

Expiration Date:	08/24/2030	NIST Traceable
Cylinder Number:	CC755408	Expanded Uncertainty
8.35 %	Carbon dioxide	± 0.07 %
4.54 %	Oxygen	± 0.02 %
Balance	Nitrogen	

ProSpec EZ Cert



Certification Information:

Certification Date: 08/24/2022 Term: 96 Months Expiration Date: 08/24/2030

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. O2 responses have been corrected for CO2 interference.

Analytical Data:

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

1. **Component:** Carbon dioxide
Requested Concentration: 8.5 %
Certified Concentration: 8.35 %
Instrument Used: Horiba VIA-510 S/N 20C194WK
Analytical Method: NDIR
Last Multipoint Calibration: 07/15/2022

Reference Standard: Type / Cylinder #: NTRM / DT0030197
Concentration / Uncertainty: 7.011 % ±0.058 %
Expiration Date: 01/27/2027
Traceable to: SRM # / Sample # / Cylinder #: NTRM#DT0030296 / 180702 / D1D030296
SRM Concentration / Uncertainty: 7.011 % ±0.058
SRM Expiration Date: 01/27/2027

First Analysis Data:		Date		08/24/2022			
Z:	0	R:	7.01	C:	8.34	Conc:	8.34
R:	7.01	Z:	0	C:	8.35	Conc:	8.35
Z:	0	C:	8.35	R:	7.01	Conc:	8.35
UOM:	%	Mean Test Assay:		8.35	%		

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: 4.4 %
Certified Concentration: 4.54 %
Instrument Used: Siemens Oxymat 6E S/N 7MB20211AA000CA1
Analytical Method: Paramagnetic
Last Multipoint Calibration: 07/12/2022

Reference Standard: Type / Cylinder #: GMIS / CC183512
Concentration / Uncertainty: 4.97 % ±0.02 %
Expiration Date: 07/17/2029
Traceable to: SRM # / Sample # / Cylinder #: SRM 2658a / 72-D-28 / CAL016882
SRM Concentration / Uncertainty: 9.918 % / ±0.022 %
SRM Expiration Date: 02/03/2024

First Analysis Data:		Date		08/24/2022			
Z:	0	R:	4.97	C:	4.537	Conc:	4.54
R:	4.96	Z:	0	C:	4.536	Conc:	4.54
Z:	0	C:	4.539	R:	4.967	Conc:	4.54
UOM:	%	Mean Test Assay:		4.54	%		

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

Courtney Zieje

Certified By

Lisette Morales

O₂ % 4.54
CO₂ % 8.35
CC755408
EXP 8-24-30
F22022

L01-23-22

Information contained herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linde Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.



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Los Angeles CA 90058
Tel: 323-585-2154
Fax: 714-542-6689
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: 01/17/2023

Linde Order Number: 86769254

Part Number: NI CD17.501E-AS

Customer PO Number: LUIS OLIVARES

Fill Date: 12/12/2022

Lot Number: 70086234604

Cylinder Style & Outlet: AS

CGA 590

Cylinder Pressure and Volume: 2000 psig 153 ft³

Certified Concentration

Expiration Date:	01/16/2031	NIST Traceable
Cylinder Number:	SA10524	Expanded Uncertainty
17.63 %	Carbon dioxide	± 0.06 %
8.94 %	Oxygen	± 0.05 %
Balance	Nitrogen	

ProSpec EZ Cert



Certification Information:

Certification Date: 01/16/2023

Term: 96 Months

Expiration Date: 01/16/2031

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-800/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. O2 responses have been corrected for CO2 interference.

Analytical Data:

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

1. Component:

Carbon dioxide

Requested Concentration: 17.5 %
Certified Concentration: 17.63 %
Instrument Used: Horiba VIA-510 S/N 20C194WK
Analytical Method: NDIR
Last Multipoint Calibration: 12/19/2022

First Analysis Data:		Date	
Z: -0	R: 19.34	C: 17.62	Conc: 17.6
R: 19.37	Z: 0	C: 17.66	Conc: 17.64
Z: 0	C: 17.67	R: 19.36	Conc: 17.65
UOM: %		Mean Test Assay: 17.63 %	

Reference Standard:

Type / Cylinder #: NTRM / CC725978

Concentration / Uncertainty: 19.34 % ± 0.03 %

Expiration Date: 01/12/2027

Traceable to:

SRM # / Sample # / Cylinder #: NTRM / 190701 / CC725973

SRM Concentration / Uncertainty: 19.34 % ± 0.031 %

SRM Expiration Date: 01/12/2027

Second Analysis Data:

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: 8.94 %
Instrument Used: Siemens Oxymat 6E S/N 7MB20211AA000CA1
Analytical Method: Paramagnetic
Last Multipoint Calibration: 12/19/2022

First Analysis Data:		Date	
Z: 0	R: 9.978	C: 8.956	Conc: 8.95
R: 9.978	Z: 0	C: 8.929	Conc: 8.93
Z: 0	C: 8.952	R: 9.988	Conc: 8.95
UOM: %		Mean Test Assay: 8.94 %	

Reference Standard:

Type / Cylinder #: GMIS / DT0018893

Concentration / Uncertainty: 9.978 % ± 0.024 %

Expiration Date: 12/20/2030

Traceable to:

SRM # / Sample # / Cylinder #: SRM 2658a / 72-D-28 / CAL016862

SRM Concentration / Uncertainty: 9.916 % ± 0.022 %

SRM Expiration Date: 02/03/2024

Second Analysis Data:

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

Courtney Zlotnik

Certified By

Jonathan Gutierrez

O₂ % 8.94
CO₂ % 17.63
SA10524
EXP 1-16-31
F22023

A) 2-3-23

Information contained herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linde Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.



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DocNumber: 463732

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: 05/11/2022

Linde Order Number: 86717212

Part Number: NI NO4.5ME-AS

Customer PO Number: LUIS OLIVARES

Fill Date: 04/28/2022

Lot Number: 70086211813

Cylinder Style & Outlet: AS

CGA 860

Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

Table with 3 columns: Parameter, Value, and Reference/Method. Includes Expiration Date (05/11/2025), Cylinder Number (DT0042444), and Certified Concentration (4.77 ppm Nitric oxide, ± 0.04 ppm).

ProSpec EZ Cert



For Reference Only:

NOx 4.79 ppm

Certification Information:

Certification Date: 05/11/2022

Term: 36 Months

Expiration Date: 05/11/2025

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: 4.77 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030645077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 04/25/2022

Reference Standard: Type / Cylinder #: GMIS / DT0037186
Concentration / Uncertainty: 4.94 ppm ± 0.04 ppm
Expiration Date: 04/06/2025

Traceable to: SRM # / Sample # / Cylinder #: PRM / C1837210.01 / APEX1324292
SRM Concentration / Uncertainty: 5.00 ppm / ± 0.04 ppm
SRM Expiration Date: 04/17/2022

Table with 4 columns: Z, R, C, Conc. for First Analysis Date (05/03/2022). Values: Z: 0, R: 4.94, C: 4.77, Conc: 4.77.

Table with 4 columns: Z, R, C, Conc. for Second Analysis Date (05/11/2022). Values: Z: 0, R: 4.94, C: 4.77, Conc: 4.78.

Analyzed By: Lissette Morales

Certified By: Henry Koung

Handwritten text: NOx 4.79, DT0042444, EXP 5-11-25, F22022

Handwritten text: AS-20-82

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DocNumber: 502292



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

MONTRÖSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA92705

Certificate Issuance Date: 09/08/2022
Linde Order Number: 72174559
Part Number: NI NO9ME-AS
Customer PO Number: 80179225

Fill Date: 08/25/2022
Lot Number: 70086223704
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

Expiration Date:	09/08/2025	NIST Traceable
Cylinder Number:	CC757982	Expanded Uncertainty
9.11 ppm	Nitric oxide	± 0.05 ppm
Balance	Nitrogen	

ProSpec EZ Cert



For Reference Only: NOx 9.13 ppm

Certification Information: Certification Date: 09/08/2022 Term: 36 Months Expiration Date: 09/08/2025

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: 9 ppm
 Certified Concentration: 9.11 ppm
 Instrument Used: Thermo Electron 42i-LS S/N 1030645077
 Analytical Method: Chemiluminescence
 Last Multipoint Calibration: 08/11/2022

Reference Standard: Type / Cylinder #: GMIS / DT0038022
 Concentration / Uncertainty: 9.42 ppm ±0.05 ppm
 Expiration Date: 04/08/2025
Traceable to: SRM # / Sample # / Cylinder #: PRM / C1837210.02 / APEX1324301
 SRM Concentration / Uncertainty: 10.00 ppm / ±0.05 ppm
 SRM Expiration Date: 04/17/2022

First Analysis Data:				Date	09/01/2022		
Z:	0	R:	9.42	C:	9.11	Conc:	9.11
R:	9.43	Z:	0	C:	9.12	Conc:	9.12
Z:	0	C:	9.1	R:	9.41	Conc:	9.1
UOM:	ppm	Mean Test Assay:	9.11	ppm			

Second Analysis Data:				Date	09/08/2022		
Z:	0	R:	9.42	C:	9.1	Conc:	9.11
R:	9.41	Z:	0	C:	9.09	Conc:	9.1
Z:	0	C:	9.1	R:	9.41	Conc:	9.11
UOM:	ppm	Mean Test Assay:	9.1	ppm			

Analyzed By

Henry Koung

Certified By

Lissette Morales

NOX 9.13
 CC 757982
 EXP 09/08/25
 F22022

Information contained herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linde Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.



Making our world more productive

DocNumber: 536268



Linde Gas & Equipment Inc. 5700 S. Alameda Street Los Angeles CA 90058 Tel: 323-585-2154 Fax: 714-542-6689 PGVP ID: F22023

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Customer & Order Information

MONROSE AIR QUALITY SERVICES
1631 E ST ANDREWS PLACE
SANTA ANA CA92705

Certificate Issuance Date: 03/22/2023

Linde Order Number: T2350668

Part Number: AI NX7MZE-AS

Customer PO Number: 80358053

Fill Date: 03/09/2023

Lot Number: 70086308602

Cylinder Style & Outlet: AS

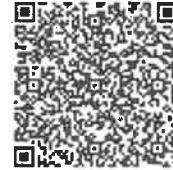
CGA 660

Cylinder Pressure and Volume: 2000 psig 140 ft3

Certified Concentration

Expiration Date:	03/22/2024	NIST Traceable
Cylinder Number:	DT0028293	Expanded Uncertainty
7.03 ppm	Nitrogen dioxide (as NOx)	± 0.16 ppm
Balance	Air	

ProSpec EZ Cert



For Reference Only: HNO3 0.14 ppm

Certification Information:

Certification Date: 03/22/2023

Term: 12 Months

Expiration Date: 03/22/2024

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.

The above certified concentration of Total Oxides of Nitrogen (NOx) excludes HNO3.

Analytical Data:

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

1. Component: Nitrogen dioxide (as NOx)

Requested Concentration: 7 ppm
Certified Concentration: 7.03 ppm
Instrument Used: MKS 2 MultiGas 2031 FTIR
Analytical Method: FTIR
Last Multipoint Calibration: 02/27/2023

Reference Standard: Type / Cylinder #: GMIS / ND7457

Concentration / Uncertainty: 11.4 ppm ±0.2 ppm

Expiration Date: 11/18/2023

Traceable to: SRM # / Sample # / Cylinder #: PRM / C2185601.1 / D970555

SRM Concentration / Uncertainty: 10.02 ppm / ±0.20 ppm

SRM Expiration Date: 11/18/2023

First Analysis Data:				Date			
Z:	0	R:	11.3	C:	6.98	Conc:	6.98
R:	11.5	Z:	0	C:	7.04	Conc:	7.04
Z:	0	C:	7.01	R:	11.4	Conc:	7.01
UOM:	ppm	Mean Test Assay:		7.01	ppm		

Second Analysis Data:				Date			
Z:	0	R:	11.4	C:	7	Conc:	7.1
R:	11.3	Z:	0	C:	6.98	Conc:	7.08
Z:	0	C:	7	R:	11	Conc:	7.1
UOM:	ppm	Mean Test Assay:		7.1	ppm		

Analyzed By

Henry Koung

Certified By

Lissette Morales

NO₂ 7.03
DT0028293
EXP 3-22-24
F22023

AS 4-11-23

Information contained herein has been prepared at your request by qualified experts within Linde Gas & Equipment Inc. While we believe that the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analyses performed, we make no warranty or representation as to the suitability of the use of the information for any purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall the liability of Linde Gas & Equipment Inc., arising out of the use of the information contained herein exceed the fee established for providing such information.

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

Generating Station: Ormond Beach
 Unit: 2
 Test Date: 5/23/2023

Performed By: MM, LO, LE, AE
 Test Condition: 264 MW
 Fuel F-Factor: 8,710 dscf/MMBtu

Run Number	1		2		3		4		5		6		7		8		9	
Test Date	5/23/2023		5/23/2023		5/23/2023		5/23/2023		5/23/2023		5/23/2023		5/23/2023		5/23/2023		5/23/2023	
Start Time	10:20		10:50		11:20		11:56		12:23		12:50		13:22		13:49		14:41	
Stop Time	10:41		11:11		11:41		12:17		12:44		13:11		13:43		14:10		15:02	
	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	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13
Span Gas Value	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79
Analyzer Zero	0.00	0.02	0.00	0.02	0.00	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02
Analyzer Span	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.73	4.53	4.73	4.53	4.73	4.53	4.74	4.53	4.74	4.53	4.74
Pre-Test Zero Bias	0.01	0.03	0.00	0.05	0.01	0.06	0.00	0.05	0.01	0.08	0.01	0.09	0.01	0.09	0.01	0.10	0.01	0.10
Pre-Test Span Bias	4.51	4.73	4.51	4.77	4.52	4.74	4.51	4.75	4.52	4.76	4.52	4.84	4.52	4.79	4.52	4.80	4.52	4.75
Post-Test Zero Bias	0.00	0.05	0.01	0.06	0.00	0.05	0.01	0.08	0.01	0.09	0.01	0.09	0.01	0.10	0.01	0.10	0.01	0.13
Post-Test Span Bias	4.51	4.77	4.52	4.74	4.51	4.75	4.52	4.76	4.52	4.84	4.52	4.79	4.52	4.80	4.53	4.75	4.52	4.78
Pre-Test Zero Bias (%):	0.2%	0.1%	0.1%	0.3%	0.1%	0.5%	0.2%	0.4%	0.3%	0.7%	0.3%	0.8%	0.2%	0.8%	0.2%	0.9%	0.2%	0.9%
Pre-Test Span Bias (%):	-0.3%	0.1%	-0.2%	0.5%	-0.2%	0.2%	-0.2%	0.2%	-0.1%	0.3%	-0.1%	1.2%	-0.2%	0.5%	-0.1%	0.6%	0.0%	0.0%
Post-Test Zero Bias (%):	0.2%	0.3%	0.2%	0.4%	0.2%	0.4%	0.2%	0.7%	0.2%	0.8%	0.2%	0.8%	0.2%	0.8%	0.2%	0.9%	0.2%	1.2%
Post-Test Span Bias (%):	-0.2%	0.4%	-0.1%	0.1%	-0.2%	0.2%	-0.1%	0.2%	-0.1%	1.1%	-0.2%	0.5%	-0.1%	0.6%	-0.1%	0.0%	-0.1%	0.4%
Zero Drift (%):	-0.1%	0.2%	0.0%	0.1%	0.0%	-0.1%	0.1%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.1%	0.0%	0.3%
Span Drift (%):	0.0%	0.5%	0.0%	-0.4%	0.0%	0.2%	0.0%	0.1%	0.0%	0.9%	0.0%	-0.5%	0.0%	0.1%	0.0%	-0.6%	0.0%	0.4%

Montrose Air Quality Services, LLC
AETB Qualified Individual Data



Source	Ormond Beach Unit 2
Test Date	5/23/2023
AETB Name	Montrose Air Quality Services, LLC.
AETB Phone Number	714-279-6777
AETB e-mail	qualitymanagement@montrose-env.com
QI Last Name	McCune
QI First Name	Matthew
QI Middle Initial	R
QI Exam Date	September 17, 2018
Exam Provider	Source Evaluation Society
Exam Contact	gstiprogram@gmail.com

APPENDIX B FACILITY CEMS DATA

ORMOND # Z
RATA RUN # 1

Average Data
Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 10:20 Through 05/23/2023 10:40
Time Online Criteria: 1 minute(s)

W002AS-026975-RT-4

ORB2										
Source	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)	
05/23/23 10:20	25,851.2	264.3	0.11	0.008	0.082	5.72	6.38	4.86	1.0	
05/23/23 10:21	25,766.6	261.6	0.12	0.008	0.083	5.70	6.38	4.95	1.0	
05/23/23 10:22	25,855.7	262.6	0.15	0.008	0.088	6.05	6.82	4.85	1.0	
05/23/23 10:23	25,853.4	263.4	0.15	0.008	0.088	6.06	6.82	4.89	1.0	
05/23/23 10:24	25,771.7	261.0	0.15	0.008	0.087	5.92	6.64	4.96	1.0	
05/23/23 10:25	25,965.8	263.2	0.15	0.008	0.087	6.00	6.67	4.83	1.0	
05/23/23 10:26	25,950.4	264.0	0.13	0.008	0.084	5.79	6.49	4.88	1.0	
05/23/23 10:27	25,833.2	262.8	0.12	0.008	0.084	5.77	6.49	4.89	1.0	
05/23/23 10:28	25,809.4	260.9	0.15	0.008	0.087	5.96	6.71	4.90	1.0	
05/23/23 10:29	25,871.4	264.1	0.15	0.008	0.087	6.07	6.78	4.81	1.0	
05/23/23 10:30	25,737.7	261.1	0.15	0.008	0.086	5.87	6.64	4.96	1.0	
05/23/23 10:31	25,909.7	263.2	0.17	0.008	0.088	6.07	6.78	4.79	1.0	
05/23/23 10:32	25,961.7	263.8	0.15	0.008	0.086	5.95	6.56	4.85	1.0	
05/23/23 10:33	25,820.7	261.2	0.16	0.008	0.086	5.89	6.60	4.94	1.0	
05/23/23 10:34	25,884.7	263.8	0.15	0.008	0.085	5.90	6.56	4.82	1.0	
05/23/23 10:35	25,808.5	262.1	0.15	0.008	0.086	5.92	6.60	4.91	1.0	
05/23/23 10:36	25,767.4	261.1	0.18	0.008	0.088	6.04	6.71	4.88	1.0	
05/23/23 10:37	25,954.1	263.7	0.16	0.008	0.086	5.95	6.56	4.84	1.0	
05/23/23 10:38	25,725.9	263.6	0.16	0.008	0.085	5.88	6.60	4.89	1.0	
05/23/23 10:39	25,915.9	263.9	0.17	0.008	0.088	6.11	6.78	4.81	1.0	
05/23/23 10:40	25,759.5	262.4	0.17	0.008	0.087	5.99	6.71	4.91	1.0	
Average	25,846.4	262.8	0.15	0.008	0.086	5.93	6.63	4.88	1.0	
Minimum	25,725.9	260.9	0.11	0.008	0.082	5.70	6.38	4.79	1.0	
Maximum	25,965.8	264.3	0.18	0.008	0.088	6.11	6.82	4.96	1.0	
Summation	542,774.6	5,517.8	3.15	0.168	1.808	124.61	139.28	102.42	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

ORMOND U-2
RATA RUN #2

Average Data
Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 10:50 Through 05/23/2023 11:10
Time Online Criteria: 1 minute(s)

Source		ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)		
05/23/23 10:50	25,856.9	263.0	0.17	0.008	0.086	5.95	6.60	4.86	1.0		
05/23/23 10:51	25,601.1	262.2	0.18	0.008	0.086	5.93	6.64	4.99	1.0		
05/23/23 10:52	25,751.4	263.2	0.18	0.008	0.087	6.06	6.82	4.85	1.0		
05/23/23 10:53	25,748.8	260.8	0.19	0.008	0.088	5.99	6.75	4.98	1.0		
05/23/23 10:54	25,780.1	264.3	0.17	0.008	0.085	5.95	6.60	4.86	1.0		
05/23/23 10:55	25,618.1	261.5	0.16	0.008	0.084	5.79	6.53	5.04	1.0		
05/23/23 10:56	25,547.1	262.4	0.16	0.008	0.083	5.80	6.49	4.88	1.0		
05/23/23 10:57	25,637.3	263.3	0.16	0.008	0.085	5.90	6.60	4.92	1.0		
05/23/23 10:58	25,581.7	260.6	0.20	0.008	0.089	6.08	6.87	4.99	1.0		
05/23/23 10:59	25,831.8	263.2	0.21	0.008	0.089	6.19	6.89	4.85	1.0		
05/23/23 11:00	25,704.2	263.5	0.17	0.008	0.085	5.88	6.60	4.92	1.0		
05/23/23 11:01	25,500.9	263.1	0.16	0.008	0.083	5.78	6.53	4.98	1.0		
05/23/23 11:02	25,612.8	263.1	0.16	0.008	0.083	5.81	6.49	4.90	1.0		
05/23/23 11:03	25,437.9	260.4	0.18	0.008	0.086	5.90	6.64	5.00	1.0		
05/23/23 11:04	25,685.4	262.5	0.19	0.008	0.087	6.06	6.78	4.83	1.0		
05/23/23 11:05	25,638.6	264.7	0.18	0.008	0.087	6.05	6.75	4.96	1.0		
05/23/23 11:06	25,441.7	262.0	0.18	0.008	0.085	5.91	6.64	5.02	1.0		
05/23/23 11:07	25,616.6	259.9	0.20	0.008	0.087	6.00	6.71	4.88	1.0		
05/23/23 11:08	25,834.1	262.0	0.19	0.008	0.086	5.95	6.67	4.82	1.0		
05/23/23 11:09	25,664.0	264.3	0.15	0.008	0.082	5.71	6.42	4.95	1.0		
05/23/23 11:10	25,514.8	262.0	0.16	0.008	0.083	5.77	6.53	4.98	1.0		
Average	25,647.9	262.5	0.18	0.008	0.086	5.93	6.65	4.93	1.0		
Minimum	25,437.9	259.9	0.15	0.008	0.082	5.71	6.42	4.82	1.0		
Maximum	25,856.9	264.7	0.21	0.008	0.089	6.19	6.89	5.04	1.0		
Summation	538,605.3	5,512.0	3.70	0.168	1.796	124.46	139.55	103.46	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

ORMOND U-2
RATA RUN #3

Average Data
Plant: ORMOND BEACH GEN STA

Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 11:20 Through 05/23/2023 11:40
Time Online Criteria: 1 minute(s)

Source		ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)		
05/23/23 11:20	25,534.2	262.5	0.18	0.008	0.085	5.84	6.57	5.06	1.0		
05/23/23 11:21	25,471.6	261.9	0.17	0.008	0.084	5.85	6.60	4.90	1.0		
05/23/23 11:22	25,425.2	261.8	0.16	0.008	0.083	5.74	6.42	5.01	1.0		
05/23/23 11:23	25,494.7	262.0	0.18	0.008	0.085	5.92	6.60	4.91	1.0		
05/23/23 11:24	25,563.1	260.6	0.20	0.008	0.088	6.08	6.82	4.91	1.0		
05/23/23 11:25	25,512.8	263.1	0.19	0.008	0.086	6.04	6.71	4.91	1.0		
05/23/23 11:26	25,537.5	261.8	0.18	0.008	0.085	5.90	6.60	4.93	1.0		
05/23/23 11:27	25,431.5	261.4	0.17	0.008	0.084	5.83	6.49	4.89	1.0		
05/23/23 11:28	25,481.9	262.5	0.17	0.008	0.085	5.88	6.60	4.94	1.0		
05/23/23 11:29	25,415.4	261.5	0.19	0.008	0.086	5.98	6.75	5.01	1.0		
05/23/23 11:30	25,469.4	261.9	0.19	0.008	0.087	6.06	6.82	4.88	1.0		
05/23/23 11:31	25,547.2	261.4	0.20	0.008	0.086	5.95	6.64	4.97	1.0		
05/23/23 11:32	25,662.9	261.9	0.18	0.008	0.085	5.89	6.60	4.85	1.0		
05/23/23 11:33	25,577.4	262.9	0.17	0.008	0.083	5.76	6.49	4.92	1.0		
05/23/23 11:34	25,538.3	261.9	0.18	0.008	0.084	5.88	6.60	4.88	1.0		
05/23/23 11:35	25,441.8	265.1	0.18	0.008	0.085	5.99	6.75	4.96	1.0		
05/23/23 11:36	25,606.3	263.3	0.21	0.008	0.088	6.09	6.82	4.94	1.0		
05/23/23 11:37	25,616.2	265.3	0.20	0.008	0.086	6.05	6.71	4.91	1.0		
05/23/23 11:38	25,850.5	263.8	0.20	0.008	0.086	5.93	6.60	4.90	1.0		
05/23/23 11:39	25,851.1	266.9	0.19	0.008	0.084	5.92	6.56	4.83	1.0		
05/23/23 11:40	25,814.6	266.6	0.18	0.008	0.083	5.83	6.49	4.89	1.0		
Average	25,564.0	262.9	0.18	0.008	0.085	5.92	6.63	4.92	1.0		
Minimum	25,415.4	260.6	0.16	0.008	0.083	5.74	6.42	4.83	1.0		
Maximum	25,851.1	266.9	0.21	0.008	0.088	6.09	6.82	5.06	1.0		
Summation	536,843.6	5,520.1	3.87	0.168	1.788	124.41	139.24	103.40	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

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

ORMOND U-2
RATA RUN #4

Report Period: 05/23/2023 11:56 Through 05/23/2023 12:16
Time Online Criteria: 1 minute(s)

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Source		ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#MMW (LB/MMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)		
05/23/23 11:56	25,939.4	263.7	0.20	0.008	0.084	5.78	6.49	4.93	1.0		
05/23/23 11:57	26,054.6	259.9	0.22	0.008	0.086	5.82	6.49	4.91	1.0		
05/23/23 11:58	25,912.1	265.2	0.19	0.008	0.083	5.74	6.34	4.84	1.0		
05/23/23 11:59	25,992.2	259.7	0.20	0.008	0.084	5.65	6.42	5.04	1.0		
05/23/23 12:00	25,832.1	266.1	0.18	0.008	0.082	5.77	6.45	4.82	1.0		
05/23/23 12:01	25,831.8	264.0	0.18	0.008	0.083	5.68	6.42	5.03	1.0		
05/23/23 12:02	25,830.1	263.9	0.20	0.008	0.084	5.83	6.49	4.86	1.0		
05/23/23 12:03	26,116.2	263.8	0.21	0.008	0.086	5.92	6.56	4.85	1.0		
05/23/23 12:04	26,072.9	267.8	0.20	0.008	0.085	5.96	6.67	4.84	1.0		
05/23/23 12:05	25,912.7	264.4	0.19	0.008	0.084	5.83	6.49	4.92	1.0		
05/23/23 12:06	25,769.4	266.0	0.17	0.008	0.083	5.78	6.49	4.95	1.0		
05/23/23 12:07	25,668.7	263.7	0.17	0.008	0.083	5.77	6.53	4.96	1.0		
05/23/23 12:08	25,588.0	262.7	0.19	0.008	0.085	5.88	6.64	4.99	1.0		
05/23/23 12:09	25,768.9	266.1	0.20	0.008	0.087	6.10	6.82	4.91	1.0		
05/23/23 12:10	25,669.6	262.5	0.21	0.008	0.088	6.05	6.87	5.01	1.0		
05/23/23 12:11	25,795.4	260.0	0.23	0.008	0.089	6.06	6.82	4.88	1.0		
05/23/23 12:12	25,930.4	263.7	0.21	0.008	0.087	6.01	6.67	4.80	1.0		
05/23/23 12:13	25,750.9	261.9	0.19	0.008	0.083	5.70	6.42	4.96	1.0		
05/23/23 12:14	25,777.9	265.9	0.19	0.008	0.083	5.82	6.49	4.89	1.0		
05/23/23 12:15	25,948.5	261.7	0.21	0.008	0.085	5.81	6.49	4.93	1.0		
05/23/23 12:16	26,155.3	260.8	0.24	0.008	0.089	6.07	6.78	4.79	1.0		
Average	25,872.2	263.5	0.20	0.008	0.085	5.86	6.56	4.91	1.0		
Minimum	25,588.0	259.7	0.17	0.008	0.082	5.65	6.34	4.79	1.0		
Maximum	26,155.3	267.8	0.24	0.008	0.089	6.10	6.87	5.04	1.0		
Summation	543,317.1	5,533.5	4.18	0.168	1.783	123.03	137.84	103.11	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**

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

ORMOND U-2
RATA RUN #5

Report Period: 05/23/2023 12:23 Through 05/23/2023 12:43
Time Online Criteria: 1 minute(s)

Source	ORB2										
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#/MM (LB/MMBTU)	NOX#/MMW (LB/MMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)		
05/23/23 12:23	25,976.1	266.3	0.20	0.008	0.086	5.96	6.71	4.87	1.0		
05/23/23 12:24	25,705.1	263.7	0.19	0.008	0.085	5.85	6.68	5.07	1.0		
05/23/23 12:25	25,695.9	259.5	0.22	0.008	0.087	5.94	6.60	4.91	1.0		
05/23/23 12:26	26,003.6	265.4	0.20	0.008	0.086	5.95	6.67	4.84	1.0		
05/23/23 12:27	25,786.5	264.7	0.18	0.008	0.083	5.75	6.42	5.02	1.0		
05/23/23 12:28	25,695.1	263.9	0.20	0.008	0.083	5.79	6.53	4.96	1.0		
05/23/23 12:29	26,010.1	262.7	0.21	0.008	0.087	5.97	6.71	4.89	1.0		
05/23/23 12:30	25,877.6	263.7	0.20	0.008	0.085	5.88	6.60	4.92	1.0		
05/23/23 12:31	25,822.9	264.7	0.19	0.008	0.084	5.81	6.49	4.94	1.0		
05/23/23 12:32	25,651.2	261.7	0.19	0.008	0.084	5.79	6.53	5.00	1.0		
05/23/23 12:33	25,759.9	265.7	0.20	0.008	0.086	5.99	6.71	4.88	1.0		
05/23/23 12:34	25,804.2	261.3	0.21	0.008	0.086	5.88	6.64	4.96	1.0		
05/23/23 12:35	25,823.3	265.0	0.20	0.008	0.085	5.95	6.67	4.84	1.0		
05/23/23 12:36	25,754.6	261.8	0.20	0.008	0.085	5.84	6.53	4.97	1.0		
05/23/23 12:37	25,631.8	264.4	0.19	0.008	0.084	5.88	6.60	4.92	1.0		
05/23/23 12:38	25,652.7	262.1	0.20	0.008	0.085	5.84	6.53	5.01	1.0		
05/23/23 12:39	25,664.8	262.5	0.21	0.008	0.086	5.95	6.60	4.94	1.0		
05/23/23 12:40	25,867.1	266.1	0.21	0.008	0.086	6.00	6.71	4.93	1.0		
05/23/23 12:41	25,818.1	263.9	0.19	0.008	0.084	5.81	6.53	4.99	1.0		
05/23/23 12:42	25,753.2	261.2	0.22	0.008	0.086	5.92	6.60	4.95	1.0		
05/23/23 12:43	25,984.6	264.0	0.22	0.008	0.087	6.00	6.71	4.87	1.0		
Average	25,797.5	263.5	0.20	0.008	0.085	5.89	6.61	4.94	1.0		
Minimum	25,631.8	259.5	0.18	0.008	0.083	5.75	6.42	4.84	1.0		
Maximum	26,010.1	266.3	0.22	0.008	0.087	6.00	6.71	5.07	1.0		
Summation	541,748.4	5,534.3	4.23	0.168	1.790	123.75	138.77	103.68	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		

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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

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

ORMOND U-2
DATA RUN #6

Report Period: 05/23/2023 12:50 Through 05/23/2023 13:10
Time Online Criteria: 1 minute(s)

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Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)	
05/23/23 12:50	25,919.2	263.1	0.19	0.008	0.083	5.67	6.42	4.95	1.0	
05/23/23 12:51	26,082.2	262.7	0.21	0.008	0.086	5.84	6.49	4.88	1.0	
05/23/23 12:52	26,091.8	264.6	0.21	0.008	0.086	5.87	6.60	4.93	1.0	
05/23/23 12:53	25,988.2	266.1	0.21	0.008	0.085	5.90	6.64	4.97	1.0	
05/23/23 12:54	25,937.0	264.6	0.21	0.008	0.085	5.83	6.53	4.97	1.0	
05/23/23 12:55	26,108.2	263.4	0.21	0.008	0.085	5.81	6.45	4.83	1.0	
05/23/23 12:56	26,104.9	262.7	0.20	0.008	0.084	5.73	6.38	4.95	1.0	
05/23/23 12:57	25,929.2	265.5	0.19	0.008	0.083	5.73	6.42	4.97	1.0	
05/23/23 12:58	25,993.7	267.0	0.20	0.008	0.084	5.85	6.60	4.88	1.0	
05/23/23 12:59	26,079.2	264.1	0.22	0.008	0.086	5.94	6.60	4.85	1.0	
05/23/23 13:00	26,199.6	266.3	0.21	0.008	0.086	5.96	6.67	4.85	1.0	
05/23/23 13:01	26,059.9	266.9	0.19	0.008	0.084	5.80	6.53	4.95	1.0	
05/23/23 13:02	25,912.0	263.9	0.21	0.008	0.085	5.87	6.60	4.94	1.0	
05/23/23 13:03	26,002.6	265.0	0.21	0.008	0.086	5.92	6.60	4.88	1.0	
05/23/23 13:04	26,013.5	263.7	0.20	0.008	0.085	5.84	6.49	4.90	1.0	
05/23/23 13:05	26,068.2	264.9	0.21	0.008	0.085	5.83	6.49	4.91	1.0	
05/23/23 13:06	26,238.3	266.2	0.22	0.008	0.087	6.00	6.71	4.90	1.0	
05/23/23 13:07	26,073.9	263.8	0.22	0.008	0.087	5.92	6.60	4.94	1.0	
05/23/23 13:08	26,030.9	265.1	0.21	0.008	0.085	5.82	6.49	4.95	1.0	
05/23/23 13:09	26,012.4	264.4	0.19	0.008	0.083	5.72	6.38	4.93	1.0	
05/23/23 13:10	26,070.3	263.3	0.22	0.008	0.086	5.83	6.53	4.96	1.0	
Average	26,043.6	264.6	0.21	0.008	0.085	5.84	6.53	4.92	1.0	
Minimum	25,912.0	262.7	0.19	0.008	0.083	5.67	6.38	4.83	1.0	
Maximum	26,238.3	267.0	0.22	0.008	0.087	6.00	6.71	4.97	1.0	
Summation	546,915.2	5,557.3	4.34	0.168	1.786	122.68	137.22	103.29	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

Average Data

Plant: ORMOND BEACH GEN STA

Interval: 1 Minute

Type: Roll

Report Period: 05/23/2023 13:22 Through 05/23/2023 13:42

Time Online Criteria: 1 minute(s)

Source		ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)		
05/23/23 13:22	25,903.9	264.3	0.20	0.008	0.085	5.84	6.49	4.94	1.0		
05/23/23 13:23	25,878.4	265.3	0.19	0.008	0.084	5.83	6.49	4.91	1.0		
05/23/23 13:24	25,883.1	264.1	0.20	0.008	0.085	5.83	6.53	4.96	1.0		
05/23/23 13:25	26,021.0	266.4	0.21	0.008	0.086	6.02	6.67	4.84	1.0		
05/23/23 13:26	26,005.6	264.5	0.22	0.008	0.088	6.01	6.75	4.97	1.0		
05/23/23 13:27	25,922.5	265.1	0.21	0.008	0.085	5.91	6.60	4.93	1.0		
05/23/23 13:28	25,887.3	264.6	0.20	0.008	0.085	5.85	6.49	4.94	1.0		
05/23/23 13:29	25,858.8	265.4	0.20	0.008	0.085	5.89	6.60	4.90	1.0		
05/23/23 13:30	25,944.6	263.6	0.21	0.008	0.085	5.82	6.49	4.92	1.0		
05/23/23 13:31	26,083.0	265.5	0.21	0.008	0.085	5.86	6.60	4.87	1.0		
05/23/23 13:32	25,997.7	265.2	0.20	0.008	0.084	5.80	6.49	4.89	1.0		
05/23/23 13:33	25,910.6	266.5	0.20	0.008	0.084	5.86	6.60	4.92	1.0		
05/23/23 13:34	26,004.8	264.0	0.19	0.008	0.084	5.81	6.45	4.84	1.0		
05/23/23 13:35	25,914.3	262.9	0.20	0.008	0.085	5.84	6.49	4.94	1.0		
05/23/23 13:36	25,929.0	265.9	0.21	0.008	0.086	5.98	6.71	4.91	1.0		
05/23/23 13:37	26,048.3	265.3	0.22	0.008	0.087	5.98	6.71	4.89	1.0		
05/23/23 13:38	26,057.9	265.5	0.23	0.008	0.088	6.04	6.71	4.94	1.0		
05/23/23 13:39	26,056.3	263.7	0.22	0.008	0.086	5.91	6.60	4.88	1.0		
05/23/23 13:40	26,030.3	265.5	0.20	0.008	0.084	5.82	6.49	4.90	1.0		
05/23/23 13:41	25,861.3	264.8	0.19	0.008	0.083	5.74	6.38	4.94	1.0		
05/23/23 13:42	25,887.5	263.8	0.20	0.008	0.083	5.73	6.38	4.87	1.0		
Average	25,956.5	264.9	0.21	0.008	0.085	5.87	6.56	4.91	1.0		
Minimum	25,858.8	262.9	0.19	0.008	0.083	5.73	6.38	4.84	1.0		
Maximum	26,083.0	266.5	0.23	0.008	0.088	6.04	6.75	4.97	1.0		
Summation	545,086.2	5,561.9	4.31	0.168	1.787	123.37	137.72	103.10	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		

ORMOND U-2
RATA RUV #7

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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

Average Data

Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 13:49 Through 05/23/2023 14:09
Time Online Criteria: 1 minute(s)

ORMOND U-2
DATA RUN #8

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#NMW (LB/NMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)	
05/23/23 13:49	25,966.1	263.6	0.21	0.008	0.085	5.84	6.49	4.90	1.0	
05/23/23 13:50	25,993.8	266.8	0.20	0.008	0.084	5.85	6.49	4.90	1.0	
05/23/23 13:51	26,003.5	264.3	0.21	0.008	0.086	5.89	6.60	4.92	1.0	
05/23/23 13:52	25,968.3	265.1	0.21	0.008	0.086	5.95	6.71	4.95	1.0	
05/23/23 13:53	25,896.6	262.3	0.21	0.008	0.086	5.85	6.53	4.97	1.0	
05/23/23 13:54	25,892.4	265.4	0.21	0.008	0.084	5.85	6.60	4.89	1.0	
05/23/23 13:55	25,996.6	263.9	0.21	0.008	0.085	5.85	6.60	4.95	1.0	
05/23/23 13:56	25,963.0	265.4	0.21	0.008	0.085	5.88	6.60	4.92	1.0	
05/23/23 13:57	26,031.4	264.0	0.22	0.008	0.086	5.85	6.64	4.97	1.0	
05/23/23 13:58	25,929.7	266.2	0.20	0.008	0.083	5.79	6.49	4.93	1.0	
05/23/23 13:59	26,002.7	263.8	0.21	0.008	0.085	5.83	6.53	4.97	1.0	
05/23/23 14:00	26,005.3	265.6	0.20	0.008	0.085	5.87	6.60	4.86	1.0	
05/23/23 14:01	25,922.4	263.5	0.21	0.008	0.085	5.83	6.53	4.98	1.0	
05/23/23 14:02	25,980.1	266.1	0.21	0.008	0.085	5.90	6.60	4.87	1.0	
05/23/23 14:03	26,068.3	263.3	0.21	0.008	0.086	5.86	6.60	4.92	1.0	
05/23/23 14:04	25,996.8	264.8	0.21	0.008	0.085	5.84	6.49	4.91	1.0	
05/23/23 14:05	26,139.6	266.1	0.21	0.008	0.086	5.90	6.60	4.92	1.0	
05/23/23 14:06	26,011.9	266.1	0.21	0.008	0.085	5.89	6.60	4.91	1.0	
05/23/23 14:07	26,011.7	264.0	0.22	0.008	0.086	5.92	6.60	4.93	1.0	
05/23/23 14:08	25,960.7	265.6	0.21	0.008	0.086	5.92	6.60	4.92	1.0	
05/23/23 14:09	25,867.4	262.8	0.22	0.008	0.086	5.86	6.64	5.02	1.0	
Average	25,981.3	264.7	0.21	0.008	0.085	5.87	6.58	4.93	1.0	
Minimum	25,867.4	262.3	0.20	0.008	0.083	5.79	6.49	4.86	1.0	
Maximum	26,139.6	266.8	0.22	0.008	0.086	5.95	6.71	5.02	1.0	
Summation	545,608.3	5,558.7	4.41	0.168	1.790	123.22	138.14	103.51	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	

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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

ORMOND 0-2
RATA RUN #9

Average Data
Plant: ORMOND BEACH GEN STA
Interval: 1 Minute
Type: Roll

Report Period: 05/23/2023 14:41 Through 05/23/2023 15:01
Time Online Criteria: 1 minute(s)

Source	ORB2									
Parameter Unit	GASFLOW (HSCFH)	LOADMW (MW)	NH3FLOW (GPM)	NOX#MM (LB/MMBTU)	NOX#INMW (LB/INMW)	NOXPPM (PPM)	NOXPPMC (PPM)	O2 (PERCENT)	UNITOPHR (MIN)	
05/23/23 14:41	26,046.0	263.8	0.20	0.008	0.084	5.75	6.49	4.91	1.0	
05/23/23 14:42	25,984.1	264.3	0.20	0.008	0.082	5.66	6.38	4.93	1.0	
05/23/23 14:43	26,081.9	265.5	0.19	0.008	0.083	5.72	6.34	4.85	1.0	
05/23/23 14:44	26,019.6	262.7	0.20	0.008	0.083	5.68	6.38	4.93	1.0	
05/23/23 14:45	26,153.0	265.6	0.21	0.008	0.085	5.90	6.56	4.81	1.0	
05/23/23 14:46	26,082.1	263.3	0.20	0.008	0.084	5.76	6.49	4.89	1.0	
05/23/23 14:47	25,975.0	266.1	0.20	0.008	0.084	5.81	6.49	4.88	1.0	
05/23/23 14:48	26,063.8	265.2	0.20	0.008	0.085	5.87	6.60	4.87	1.0	
05/23/23 14:49	25,985.1	264.1	0.21	0.008	0.086	5.91	6.60	4.93	1.0	
05/23/23 14:50	25,994.2	264.2	0.21	0.008	0.086	5.97	6.71	4.87	1.0	
05/23/23 14:51	25,957.9	264.6	0.22	0.008	0.086	5.93	6.64	4.96	1.0	
05/23/23 14:52	26,066.8	266.5	0.21	0.008	0.086	5.96	6.71	4.86	1.0	
05/23/23 14:53	26,012.5	263.9	0.22	0.008	0.086	5.91	6.60	4.95	1.0	
05/23/23 14:54	25,992.6	264.8	0.22	0.008	0.087	5.96	6.71	4.94	1.0	
05/23/23 14:55	26,099.5	265.7	0.22	0.008	0.086	5.92	6.60	4.87	1.0	
05/23/23 14:56	25,967.5	264.1	0.21	0.008	0.084	5.77	6.53	4.97	1.0	
05/23/23 14:57	26,084.4	265.2	0.21	0.008	0.084	5.78	6.49	4.89	1.0	
05/23/23 14:58	26,169.4	264.4	0.21	0.008	0.085	5.80	6.49	4.91	1.0	
05/23/23 14:59	26,002.3	264.4	0.22	0.008	0.085	5.84	6.49	4.92	1.0	
05/23/23 15:00	26,125.9	265.5	0.21	0.008	0.085	5.87	6.56	4.83	1.0	
05/23/23 15:01	26,099.2	263.0	0.22	0.008	0.085	5.80	6.53	4.95	1.0	
Average	26,045.8	264.6	0.21	0.008	0.085	5.84	6.54	4.90	1.0	
Minimum	25,957.9	262.7	0.19	0.008	0.082	5.66	6.34	4.81	1.0	
Maximum	26,169.4	266.5	0.22	0.008	0.087	5.97	6.71	4.97	1.0	
Summation	546,962.8	5,556.9	4.39	0.168	1.781	122.57	137.39	102.92	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	

W002AS-026975-RT 4710

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

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

C. Stack gas velocity, ft/sec

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

II. Moisture

A. Sample gas volume, dscf

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

B. Water vapor volume, scf

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

C. Moisture content, dimensionless

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

III. Stack gas volumetric flow rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

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

IV. Gaseous Mass Emission Rates, lb/hr

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

V. Emission Rates, lb/MMBtu

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

VI. Percent Isokinetic

$$I = \frac{17.32 * T_s (V_{mstd})}{(1-Bwo) * 0 * V_s * P_s * Dn2} * \frac{520^{\circ}R}{T_{ref}}$$

VII. Particulate emissions

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

(b) Grain loading at 12% CO₂, gr/dscf
 $C_{12\% CO_2} = C (12/\% CO_2)$

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

(d) Particulate emission factor
 $\text{lb}/10^6 \text{ Btu} = C * \frac{1 \text{ lb}}{7000 \text{ gr}} * F * \frac{20.9}{20.9 - \% O_2}$

Nomenclature:

A_s	= stack area, ft ²
B_{wo}	= flue gas moisture content, dimensionless
$C_{12\%CO_2}$	= particulate grain loading, gr/dscf corrected to 12% CO ₂
C	= particulate grain loading, gr/dscf
C_p	= pitot calibration factor, dimensionless
D_n	= nozzle diameter, 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
t	= 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, iwg
Q	= wet stack flow rate at actual conditions, wacfm
Q_{sd}	= dry standard stack flow rate, dscfm
SV	= specific molar volume of an ideal gas at standard conditions, ft ³ /lb-mole
T_m	= meter temperature, °R
T_{ref}	= reference temperature, °R
T_s	= stack temperature, °R
V_s	= stack gas velocity, ft/sec
V_{lc}	= volume of liquid collected in impingers, ml
V_m	= uncorrected dry meter volume, dcf
V_{mstd}	= dry meter volume at standard conditions, dscf
V_{wstd}	= volume of water vapor at standard conditions, scf
Y_d	= meter calibration coefficient

RATA SPECIFIC EMISSION CALCULATIONS

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

1. Stack Gas Corrected Concentration

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

2. Relative Accuracy Calculations

a. Average Difference

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

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

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

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
$ d $	=	Absolute Value of the Mean Difference

Appendix C.2 Spreadsheet Summary

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



Generating Station: Ormond Beach
 Unit: 2
 Test Date: 5/23/2023

Performed By: MM, LO, LE, AE
 Test Condition: 264 MW
 Fuel F-Factor: 8,710 dscf/MMBtu

Run Number	1		2		3		4		5		6		7		8		9			
	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023	5/23/2023		
Test Date	10:20	10:50	11:20	11:56	12:23	12:50	13:22	13:49	14:41	15:02										
Start Time	10:41	11:11	11:41	12:17	12:44	13:11	13:43	14:10	15:02											
Stop Time																				
Calibration Span	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	O ₂	NO _x
Span Gas Value	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13	8.94	9.13
	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79	4.54	4.79
Pre-Test Zero	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02	0.00	0.02
Pre-Test Span	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72	4.53	4.72
Pre-Test Zero Bias	0.01	0.03	0.00	0.05	0.01	0.06	0.01	0.05	0.01	0.08	0.01	0.09	0.01	0.10	0.01	0.10	0.01	0.10	0.01	0.10
Pre-Test Span Bias	4.51	4.73	4.51	4.77	4.52	4.74	4.51	4.75	4.52	4.76	4.52	4.84	4.52	4.79	4.52	4.80	4.52	4.80	4.53	4.75
Pt 3	5.04	5.75	5.10	5.72	5.12	5.69	5.10	5.57	5.10	5.72	5.08	5.66	5.08	5.71	5.08	5.72	5.08	5.72	4.94	5.63
Pt 2	4.98	5.80	5.06	5.75	5.07	5.70	5.01	5.73	5.03	5.76	5.01	5.74	5.00	5.71	5.03	5.73	5.03	5.73	4.96	5.81
Pt 1	4.95	5.79	5.02	5.72	5.01	5.73	4.99	5.79	5.03	5.79	4.98	5.76	5.01	5.79	5.01	5.79	5.01	5.79	4.94	5.73
Post-Test Zero Bias	0.00	0.05	0.01	0.06	0.00	0.05	0.01	0.08	0.01	0.09	0.01	0.09	0.01	0.10	0.01	0.10	0.01	0.10	0.01	0.13
Post-Test Span Bias	4.51	4.77	4.52	4.74	4.51	4.75	4.52	4.76	4.52	4.84	4.52	4.79	4.52	4.80	4.53	4.75	4.53	4.75	4.52	4.78
Post-Test Zero	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02	-0.01	0.02
Post-Test Span	4.53	4.73	4.53	4.73	4.53	4.73	4.53	4.74	4.53	4.74	4.53	4.74	4.53	4.75	4.53	4.75	4.53	4.75	4.53	4.75
RM Average	4.99	5.78	5.06	5.73	5.07	5.71	5.03	5.70	5.05	5.76	5.02	5.72	5.03	5.74	5.04	5.75	5.04	5.75	4.95	5.72
RM Corrected Average	5.02	5.84	5.09	5.79	5.09	5.77	5.06	5.75	5.08	5.76	5.05	5.70	5.05	5.75	5.06	5.79	5.06	5.79	4.97	5.78
RM lb/MMBtu	0.008		0.008		0.008		0.008		0.008		0.008		0.008		0.008		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		0.008	
Difference (lb/MMBtu)	0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
Difference (%)	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%	
F-Factor	8,710		8,710		8,710		8,710		8,710		8,710		8,710		8,710		8,710		8,710	
Load, MW	262.8		262.5		262.9		263.5		263.5		263.5		264.6		264.7		264.6		264.7	

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

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 4th day of February 2022.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 29, 2024

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

Appendix D.3 Individual QI Certificates

CERTIFICATE OF COMPLETION

Matt McCune

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: 002-2018-50



Tate Strickler, Accreditation Director

DATE OF
ISSUE:

9/19/18

DATE OF
EXPIRATION:

9/19/23



CERTIFICATE OF COMPLETION

Matt McCune

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 Methods

Certificate Number: 002-2018-51



Tate Strickler, Accreditation Director

DATE OF ISSUE: 9/18/18

DATE OF EXPIRATION: 9/18/23



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

V-CONE CALIBRATION REPORT

GENON
Ormond Beach Station LLC

Unit 1

V-Cone Calibration Report

Calibration Date: October 11, 2023



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**

October 11, 2023

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 : Wednesday, October 11, 2023 at 07:56 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, October 11, 2023 at 07:20 (ML).
Verification completed: Wednesday, October 11, 2023 at 07:56 (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	0.001	Start	0.025
2.000	2.011	Ascending	0.275
4.000	3.997	Ascending	-0.075
3.000	3.010	Descending	0.250
1.000	1.002	Descending	0.050

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, October 11, 2023 at 08:55 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, October 11, 2023 at 08:28 (ML).
Verification completed: Wednesday, October 11, 2023 at 08:55 (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 #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	0.004	Start	0.017
12.000	12.004	Ascending	0.017
24.000	23.957	Ascending	-0.179
18.000	17.974	Descending	-0.108
6.000	6.027	Descending	0.113

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, October 11, 2023 at 09:57 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, October 11, 2023 at 09:31 (ML).
Verification completed: Wednesday, October 11, 2023 at 09:57 (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	0.034	Start	0.027
62.500	62.409	Ascending	-0.073
125.000	125.092	Ascending	0.074
93.750	93.751	Descending	0.001
31.250	31.285	Descending	0.028

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, October 11, 2023 at 10:56 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, October 11, 2023 at 10:33 (ML).
Verification completed: Wednesday, October 11, 2023 at 10:56 (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	0.135	Start	0.135
50.000	50.131	Ascending	0.131
100.000	100.095	Ascending	0.095
75.000	75.105	Descending	0.105
25.000	25.132	Descending	0.132

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Wednesday, October 11, 2023 at 13:32 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Wednesday, October 11, 2023 at 11:24 (ML).
Verification completed: Wednesday, October 11, 2023 at 13:32 (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	14.858	Start	-0.142
40.000	39.841	Ascending	-0.159
65.000	64.925	Ascending	-0.075
90.000	89.942	Ascending	-0.058
115.000	115.139	Ascending	0.139

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, October 11, 2023 at 08:28 (ML).
 Downloaded from : OBGS_1
 Unit Serial Number : 002118
 Software Version : NFlo M4.3.6R
 ScanWin Version : B2.2.6W

Calibration started: Wednesday, October 11, 2023 at 07:56 (ML).
 Calibration completed: Wednesday, October 11, 2023 at 08:28 (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	-0.001	0.000	0.000
2.000	2.003	2.001	0.025
4.000	3.982	4.000	0.000
3.000	2.994	2.998	-0.050
1.000	1.007	1.004	0.100

High Pressure Zero : 2.9541 mV (As Found)
 : 0.8111 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, October 11, 2023 at 09:31 (ML).
 Downloaded from : OBGS_1
 Unit Serial Number : 002118
 Software Version : NFlo M4.3.6R
 ScanWin Version : B2.2.6W

Calibration started: Wednesday, October 11, 2023 at 08:55 (ML).
 Calibration completed: Wednesday, October 11, 2023 at 09:31(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	0.005	0.000	0.000
12.000	12.042	12.010	0.042
24.000	23.957	24.000	0.000
18.000	17.974	17.998	-0.008
6.000	6.006	5.994	-0.025

High Pressure Zero : 1.1533 mV (As Found)
 : -0.3067 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, October 11, 2023 at 10:33 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, October 11, 2023 at 09:57 (ML).
Calibration completed: Wednesday, October 11, 2023 at 10:33 (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	0.027	0.000	0.000
62.500	62.536	62.493	-0.006
125.000	125.096	125.000	0.000
93.750	93.051	93.777	0.022
31.250	31.265	31.285	0.028

High Pressure Zero : -0.2524 mV (As Found)
 : -0.2525 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, October 11, 2023 at 11:24 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, October 11, 2023 at 10:57 (ML).
Calibration completed: Wednesday, October 11, 2023 at 11:24 (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	0.028	0.000	0.000
50.000	50.012	49.993	-0.007
100.000	100.090	100.000	0.000
75.000	75.012	75.007	0.007
25.000	25.034	25.003	0.003

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Wednesday, October 11, 2023 at 16:15 (ML).
Downloaded from : OBGS_1
Unit Serial Number : 002118
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Wednesday, October 11, 2023 at 13:32 (ML).
Calibration completed: Wednesday, October 11, 2023 at 16:15 (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	14.825	15.000	0.000
40.000	39.913	40.000	0.000
65.000	64.975	65.000	0.000
90.000	89.983	90.000	0.000
115.000	115.039	115.000	0.000

Control Number 23C1558

GenOn Ormond Beach
6635 South Edison Drive
Oxnard, CA. 93033

Unit 1

V-Cone Boroscope Inspection
October 04, 2023



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: 07:45 ML DST Inspection Completion Time: 16:50 ML DST

COMMENTS:

Inspection showed slight contaminants on the front strut with sporadic spot areas on the flow conditioner. The Beta region appears clean and clear. V-Cone element shows no physical damage, excessive corrosion or obstructions. Inside pipe wall reveals light areas of contaminants, these spots should not effect the overall differential flow measurement. Sensing ports are clear and thermowell is intact and clean. Welded rear cone sections are intact and secure. Spiral wound upstream flange gasket shows slight damage but not unattached from gasket itself.

RECOMMENDATIONS:

Notified station about potential leakage from the braided sensing lines (external) corrosion and damage located just above the V-Cone element.



Rear Cone Face

Inspected by:  Date 10/04/2023

Daryl I. Briscoe

**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 2

V-Cone Calibration Report

Calibration Date: October 12, 2023



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

October 12, 2023

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 Range	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 : Thursday, October 12, 2023 at 08:44 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started : Thursday, October 12, 2023 at 08:15 (ML)
Verification completed: Thursday, October 12, 2023 at 08:44 (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 #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	-0.018	Start	-0.450
2.000	1.990	Ascending	-0.250
4.000	3.991	Ascending	-0.225
3.000	2.995	Descending	-0.125
1.000	1.000	Descending	0.000

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Thursday, October 12, 2023 at 09:50 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Thursday, October 12, 2023 at 09:19 (ML)
Verification completed: Thursday, October 12, 2023 at 09:50 (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	0.022	Start	0.092
12.000	12.021	Ascending	0.088
24.000	24.029	Ascending	0.121
18.000	18.035	Descending	0.146
6.000	6.026	Descending	0.108

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Thursday, October 12, 2023 at 10:57 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Thursday, October 12, 2023 at 10:22 (ML)
Verification completed: Thursday, October 12, 2023 at 10:57 (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	0.057	Start	0.046
62.500	62.655	Ascending	0.124
125.000	125.040	Ascending	0.032
93.750	93.759	Descending	0.007
31.250	31.304	Descending	0.043

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Thursday, October 12, 2023 at 11:48 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Thursday, October 12, 2023 at 11:22 (ML)
Verification completed: Thursday, October 12, 2023 at 11:48 (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	-0.042	Start	-0.042
50.000	49.959	Ascending	-0.041
100.000	99.959	Ascending	-0.041
75.000	74.983	Descending	-0.017
25.000	24.968	Descending	-0.032

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Verification Report

Downloaded at : Thursday, October 12, 2023 at 14:25 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Verification started: Thursday, October 12, 2023 at 12:13 (ML)
Verification completed: Thursday, October 12, 2023 at 14:25 (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 #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	15.022	Start	0.022
40.000	40.075	Ascending	0.075
65.000	65.036	Ascending	0.036
90.000	89.979	Ascending	-0.021
115.000	115.011	Ascending	0.011

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Thursday, October 12, 2023 at 09:19 (ML)
 Downloaded from : OBGS_2
 Unit Serial Number : 002119
 Software Version : NFlo M4.3.6R
 ScanWin Version : B2.2.6W

Calibration started: Thursday, October 12, 2023 at 08:44 (ML)
 Calibration completed: Thursday, October 12, 2023 at 09:19 (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	-0.009	0.000	0.000
2.000	2.001	1.999	-0.025
4.000	3.998	4.000	0.000
3.000	2.999	2.998	-0.050
1.000	1.009	1.008	0.200

High Pressure Zero : - 0.5231 mV (As Found)
 : 5 .0789 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 : Thursday, October 12, 2023 at 10:22 (ML)
 Downloaded from : OBGS_2
 Unit Serial Number : 002119
 Software Version : NFlo M4.3.6R
 ScanWin Version : B2.2.6W

Calibration started: Thursday, October 12, 2023 at 09:50 (ML)
 Calibration completed: Thursday, October 12, 2023 at 10:22 (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	0.025	0.000	0.000
12.000	12.032	12.001	0.004
24.000	24.032	24.000	0.000
18.000	18.023	17.996	-0.017
6.000	6.037	6.005	0.021

High Pressure Zero : -2.4196 mV (As Found)
 : 0.5238 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 : Thursday, October 12, 2023 at 11:21 (ML)
 Downloaded from : OBGS_2
 Unit Serial Number : 002119
 Software Version : NFlo M4.3.6R
 ScanWin Version : B2.2.6W

Calibration started: Thursday, October 12, 2023 at 10:57 (ML)
 Calibration completed: Thursday, October 12, 2023 at 11:21 (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	0.050	0.000	0.000
62.500	62.621	62.507	0.006
125.000	125.040	125.000	0.000
93.750	93.788	93.749	-0.001
31.250	31.520	31.248	-0.002

High Pressure Zero : -0.0362 mV (As Found)
 : -0.8129 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 : Thursday, October 12, 2023 at 12:13 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Thursday, October 12, 2023 at 11:48 (ML)
Calibration completed: Thursday, October 12, 2023 at 12:13 (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	-0.042	0.000	0.000
50.000	49.959	49.993	-0.007
100.000	99.980	100.000	0.000
75.000	74.968	75.001	0.001
25.000	24.973	25.006	0.006

Control Number 23C1558

Scanner 1100 Analog-in Multi-point Calibration Report

Downloaded at : Thursday, October 12, 2023 at 17:15 (ML)
Downloaded from : OBGS_2
Unit Serial Number : 002119
Software Version : NFlo M4.3.6R
ScanWin Version : B2.2.6W

Calibration started: Thursday, October 12, 2023 at 14:25 (ML)
Calibration completed: Thursday, October 12, 2023 at 17:15 (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	15.005	15.000	0.000
40.000	40.012	40.000	0.000
65.000	65.035	65.000	0.000
90.000	89.959	90.000	0.000
115.000	115.005	115.000	0.000

GenOn Ormond Beach
6635 South Edison Drive
Oxnard, CA. 93033

Unit 2

V-Cone Boroscope Inspection
October 05, 2023



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: 08:00 ML DST Inspection Completion Time: 15:45 ML DST

COMMENTS:

Inspection showed 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. Welds found intact and secure, sensing lines also found clear and clean.

RECOMMENDATIONS:

Continue to monitor grease accumulation in vital areas as a concern. Grease accumulation not significantly greater since last year. Next year the element should be rolled out for hand cleaning of the grease if outage time allows.



Rear Cone Face

Inspected by *Daryl T. Briscoe* Date: 10/05/2023
 Daryl T. Briscoe

**Certified
 Instrument
 Calibrations**

Phone (949) 413-8550

LINEARITY REPORT

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2023 00:00 Through 08/30/2023 23:59

Source: ORB1

Parameter: O2HI

System ID: 101

Component ID: 016

Span Value: 20.000

Span Scale Code: H

Test End Date/Time: 08/30/23 09:40

Test Number: XML (016-Q3-2023-1) / EDR (1)

Reason for Test: Periodic Quality Assurance

Test Result: **Pass**

Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
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Low-Level

08/30/23 09:24	5.500	5.500	0.000	0.0
08/30/23 09:30	5.500	5.600	-0.100	1.8
08/30/23 09:36	5.500	5.600	-0.100	1.8

Reference Mean: 5.500
Measured Mean: 5.567
Level Error: 1.2
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
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Mid-Level

08/30/23 09:26	11.100	11.000	0.100	0.9
08/30/23 09:32	11.100	11.100	0.000	0.0
08/30/23 09:38	11.100	11.100	0.000	0.0

Reference Mean: 11.100
Measured Mean: 11.067
Level Error: 0.3
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
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High-Level

08/30/23 09:28	18.100	18.200	-0.100	0.6
08/30/23 09:34	18.100	18.200	-0.100	0.6
08/30/23 09:40	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: 07/01/2023 00:00 Through 08/30/2023 23:59

Source: ORB1

Parameter: NOXHI

System ID: 101

Component ID: 015

Span Value: 250.000

Span Scale Code: H

Test End Date/Time: 08/30/23 10:48

Test Number: XML (015-Q3-2023-1) / EDR (1)

Reason for Test: Periodic Quality Assurance

Test Result: Pass

Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
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Low-Level

08/30/23 10:16	59.600	59.700	-0.100	0.2
08/30/23 10:28	59.600	60.400	-0.800	1.3
08/30/23 10:40	59.600	60.200	-0.600	1.0

Reference Mean: 59.600
 Measured Mean: 60.100
 Level Error: 0.8
 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
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Mid-Level

08/30/23 10:20	128.400	129.200	-0.800	0.6
08/30/23 10:32	128.400	130.200	-1.800	1.4
08/30/23 10:44	128.400	129.200	-0.800	0.6

Reference Mean: 128.400
 Measured Mean: 129.533
 Level Error: 0.9
 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
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High-Level

08/30/23 10:24	223.000	223.000	0.000	0.0
08/30/23 10:36	223.000	223.300	-0.300	0.1
08/30/23 10:48	223.000	223.800	-0.800	0.4

Reference Mean: 223.000
 Measured Mean: 223.367
 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: 07/01/2023 00:00 Through 07/20/2023 23:59

Source: ORB2

Parameter: O2HI

System ID: 201

Component ID: 026

Span Value: 20.000

Span Scale Code: H

Test End Date/Time: 07/20/23 10:19

Test Number: XML (026-Q3-2023-1) / EDR (1)

Reason for Test: Periodic Quality Assurance

Test Result: Pass

Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
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Low-Level

07/20/23 09:55	5.500	5.400	0.100	1.8
07/20/23 10:04	5.500	5.500	0.000	0.0
07/20/23 10:13	5.500	5.500	0.000	0.0

Reference Mean: 5.500
Measured Mean: 5.467
Level Error: 0.6
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
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Mid-Level

07/20/23 09:58	11.100	11.000	0.100	0.9
07/20/23 10:07	11.100	11.000	0.100	0.9
07/20/23 10:16	11.100	11.000	0.100	0.9

Reference Mean: 11.100
Measured Mean: 11.000
Level Error: 0.9
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
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High-Level

07/20/23 10:01	18.100	18.100	0.000	0.0
07/20/23 10:10	18.100	18.100	0.000	0.0
07/20/23 10:19	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

Linearity Test

Plant: ORMOND BEACH GEN STA

Report Period: 07/01/2023 00:00 Through 07/20/2023 23:59

Source: ORB2

Parameter: NOXHI

System ID: 201

Component ID: 025

Span Value: 250.000

Span Scale Code: H

Test End Date/Time: 07/20/23 11:57

Test Number: XML (025-Q3-2023-1) / EDR (1)

Reason for Test: Periodic Quality Assurance

Test Result: **Pass**

Abbreviated?: No

Injection Time	Reference Value	Measured Value	Difference	% of Reference
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Low-Level

07/20/23 11:33	59.600	59.900	-0.300	0.5
07/20/23 11:42	59.600	60.600	-1.000	1.7
07/20/23 11:51	59.600	60.600	-1.000	1.7

Reference Mean: 59.600
Measured Mean: 60.367
Level Error: 1.3
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

07/20/23 11:36	128.400	129.200	-0.800	0.6
07/20/23 11:45	128.400	129.600	-1.200	0.9
07/20/23 11:54	128.400	129.500	-1.100	0.9

Reference Mean: 128.400
Measured Mean: 129.433
Level Error: 0.8
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

07/20/23 11:39	223.000	222.800	0.200	0.1
07/20/23 11:48	223.000	223.300	-0.300	0.1
07/20/23 11:57	223.000	223.500	-0.500	0.2

Reference Mean: 223.000
Measured Mean: 223.200
Level Error: 0.1
APS Indicator: False
Gas Type Code: BALN,NO,NOX
Vendor Identifier: F22020
Cylinder #: CC244312
Cylinder Exp. Date: 10/06/2028