

Calpine Greenleaf Holdings, Inc.

717 Texas Avenue
Suite 1000
Houston, Texas 77002

November 23, 2021

SENT VIA E-MAIL: jbradley@caiso.com

Joanne Bradley (JB)
Account Manager, Customer Service
CAISO
250 Outcropping Way
Folsom, CA 95630

Re: Greenleaf 1 Emergency Repowering Project – Operations Data

Dear Joanne:


We write in response to your request for data regarding the operations of the Greenleaf 1 project, located at the Calpine Greenleaf Holdings, Inc. property in Yuba City, California. Attached please find Excel spreadsheets showing operating and emissions data for both Greenleaf 1 units, as well as a copy of the source test report. In addition, please note the following with respect to the data provided:

1. The Greenleaf 1 units were operated in September and for a limited number of hours in early October. There were no operations in November.
2. All operations during these times were for purposes of commissioning. As there are no emissions limits that apply during commissioning, the Greenleaf 1 project did not exceed any permit limits. Accordingly, the following data requests are not applicable and are not addressed in the attached spreadsheets:
 - a. For each category of emissions, please provide permitted operating/emission limits.
 - b. For each category of emissions, any actual incremental emissions above the permit limits, (if units are not equipped with continuous emission monitoring systems, please calculate actual emissions using source test data);
 - c. The hours that each Covered Resource unit operated in excess of permit limits or operated without otherwise-required permits.
3. The NO_x, CO, VOC, and SO_x emissions data in the attached spreadsheets were developed using emission factors derived from source tests. The PM₁₀ emissions are based on an emission factor of 4 lbs/hr and the turbine design heat input of 366.1 MMBtu/hr.
4. The fuel flow to each unit was apportioned from the total fuel flow to the facility based on the relative megawatts produced by each unit.
5. The water injection data was estimated based on design flow and unit operating time.

Should you have any questions about the data provided, please do not hesitate to contact me.

Sincerely,



DocuSigned by:

5E549D8EAC8C4C3...
Andrew Gundershaug
Plant Manager

c: Barbara McBride
Betty Chu

**SOURCE TEST REPORT
2021 INITIAL COMPLIANCE TEST
GE GAS POWER SYSTEMS
CALPINE GREEN LEAF 1
YUBA CITY, CALIFORNIA**

**TWO (2) - TM2500 AERODERIVATIVE GAS
TURBINE STACKS**

Prepared For:

GE GAS POWER SYSTEMS
1 River Road, bldg. 40-304
Schenectady, NY 12345

For Submittal To:

Calpine Green Leaf
5087 S Township Road
Yuba City, CA 95993

Prepared By:

Montrose Air Quality Services, LLC
1351 Brummel Avenue
Elk Grove Village, IL 60007

Document Number: **414AS-011221-RT-18**
Test Date: **September 20th and 21st, 2021**
Submittal Date: **November 4th, 2021**



REVIEW AND CERTIFICATION

I certify, to the best of my knowledge, that this test was performed in a manner conforming to the criteria set forth in ASTM D7036-04: Standard Practice for Competence of Air Emission Testing Bodies, and that project management and supervision of all project related activities were performed by qualified individuals as defined by this practice.

Both qualitative and quantitative factors contribute to field measurement uncertainty and should be taken into consideration when interpreting the results contained within this report. Whenever possible, MAQS personnel reduce the impact of these uncertainty factors through the use of approved and validated test methods. In addition, MAQS personnel perform routine instrument and equipment calibrations, and ensure that the calibration standards, instruments and equipment used during test event meet, at a minimum, test method specifications as well as the specifications of our Quality Manual and ASTM D7036-04. The limitations of the various methods, instruments, equipment and materials utilized during this test have been reasonably considered, but the ultimate impact of the cumulative uncertainty of this project is not fully identified within the results of this report.

I further certify that this report and all attachments were prepared under my direction or supervision in accordance with MAQS quality management system designed to ensure that qualified personnel gathered and evaluated the test information submitted. Based on my inquiry of the person or persons who performed the sampling and analysis relating to this performance test, the information in this report is, to the best of my knowledge and belief, true, accurate and complete.

Name: Justin Merryman, QI

Title: Vice President - Technical

Sign: 

Date: 11/04/2021

Name: John Hamner, QI

Title: Account Manager

Sign: 

Date: 11/04/2021

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1.0 INTRODUCTION

1.1 PROGRAM OBJECTIVES

GE Gas Power Systems (GE) contracted Montrose Air Quality Services, LLC (Montrose) to perform a compliance emissions test program on Two (2) Aeroderivative Gas Turbine Stack (TM 2500) Units at the Calpine Green Leaf 1 plant located in Yuba City, California. The tests were conducted to determine compliance with Permit Number 13005L.

The testing was conducted by Mr. Thomas Cassin and Mr. Zach Le Fever of Montrose on September 20th and 21st, 2021. Mr. Ziad Admin of GE coordinated the testing program. The tests were conducted according to a test plan dated September 13th, 2021. Montrose performed the tests to measure the following emission parameters:

- Emission Compliance:
 - CO (ppmvd, ppmvd @ 15% O₂, lb/MMBtu, lb/hr)
 - NO_x (ppmvd, ppmvd @ 15% O₂, lb/MMBtu, lb/hr)
 - VOC (ppmvd, ppmvd @ 15% O₂, lb/MMBtu, lb/hr)
 - SO₂ (ppmvd, ppmvd @ 15% O₂, lb/MMBtu, lb/hr)
 - O₂ and CO₂ (% volume dry) – for molecular weight & dilution calculations
 - Stack volumetric flow rate (dscfm per Method 19) and moisture content (% by volume)
 - Fuel analysis (“F_d” factor, HHV, sulfur content)

This report presents the test results and supporting data, descriptions of the testing procedures, descriptions of the facility and sampling locations, and a summary of the quality assurance procedures used by Montrose. The average emission test results are summarized and compared to their respective permit limits and performance specifications in Table 1-1. Detailed results for individual test runs can be found in Section 5.0. All supporting data can be found in the appendices.

Both qualitative and quantitative factors contribute to field measurement uncertainty and should be taken into consideration when interpreting the results contained within this report. Whenever possible, Montrose personnel reduce the impact of these uncertainty factors by using approved and validated test methods. In addition, Montrose personnel perform routine instrument and equipment calibrations and ensure that the calibration standards, instruments, and equipment used during test events meet, at a minimum, test method specifications as well as the specifications of our Quality Manual and ASTM D 7036-04. The limitations of the various methods, instruments, equipment, and materials utilized during this test have been reasonably considered, but the ultimate impact of the cumulative uncertainty of this project is not fully identified within the results of this report.

1.2 PROJECT CONTACTS

A list of project participants is included below:

Facility Information

Source Location: Calpine Green Leaf 1
5087 S. Township Rd
Yuba City, CA 95993

Project Contact: Chuck Houseknecht
Role: Environmental Manager
Company: GE Gas Power Systems
Telephone: +1 518 265 9635
Email: charles.houseknecht@ge.com

Testing Company Information

Testing Firm: Montrose Air Quality Services, LLC (Montrose)
Contact: John Hamner
Title: Client Project Manager
Telephone: (630) 715-3259
Email: jhamner@montrose-env.com

Laboratory Information

Laboratory: ACA
City, State: Venture, CA

2.0 SOURCE LOCATION INFORMATION

2.1 FACILITY DESCRIPTION

The project includes two (2) smaller aeroderivative combustion turbines that will operate during both the turbine interim and final operating modes. The aeroderivative turbine will be rated at approximately 30 megawatts (MW), operating in simple cycle mode. The aeroderivative combustion turbine will be used during black start events, as well as to provide supplemental power when needed.

2.2 SAMPLING LOCATIONS

Information regarding the sampling location is presented below:

Sample location ID: TM2500 Exhaust Stacks (Unit 1 and Unit 2)
Configuration: Rectangular, Vertical
Dimensions: 7 feet and 1 inches width, 11 feet and 6 inches depth
Port access: Manlift

Traverse point information is presented below:

- Gaseous emission tests – Thirty (30) point stratification test and sampling point selection per EPA Method 7E

3.0 TEST DESCRIPTION

3.1 PROGRAM OBJECTIVES

The objective of this test program was to determine compliance with the source testing conditions of the facility's Permit Number 13005L. The testing was performed on the TM2500 Unit 1 and Unit 2 at the Exhaust Stacks. The permit limits and results are presented in Table 3-1.

**TABLE 3-1
EMISSION LIMITS**

| Parameter | Permit Limit | Result – Unit 1 | Result – Unit 2 |
|---|--------------|-----------------|-----------------|
| Condition | | | |
| Unit Data: | | | |
| Fuel Heat Input (MMBtu/hr) | 366.1 | 313 | 322.9 |
| Fuel to Water Ratio | -- | 1.371 | 1.325 |
| Fuel Flow lb/sec | -- | 3.71 | 3.88 |
| Water Injection lb/sec | -- | 5.09 | 5.15 |
| MW | -- | 30.11 | 32.19 |
| Fuel Analysis HHV Btu/scf | -- | 1047.50 | 1008.28 |
| Fuel Analysis LHV Btu/scf | -- | 944.83 | 908.63 |
| CO Emissions: | | | |
| ppmvd | -- | 16.60 | 11.23 |
| lb/MMBtu | -- | 0.043 | 0.029 |
| ppmvd @ 15% O ₂ | 4.0 | 19.65 | 12.94 |
| lb/hr | 2.64 | 13.68 | 9.25 |
| NO_x Emissions: | | | |
| ppmvd | -- | 19.08 | 18.60 |
| lb/MMBtu | -- | 0.082 | 0.078 |
| ppmvd @ 15% O ₂ | 2.5 | 25.49 | 21.47 |
| lb/hr as NO ₂ | 2.71 | 22.39 | 25.22 |
| THC Emissions as C₃H₈: | | | |
| ppmvd | -- | 1.11 | 0.83 |
| lb/MMBtu | -- | 0.005 | 0.003 |
| ppmvd @ 15% O ₂ | -- | 1.33 | 0.94 |
| lb/hr | 2.3 | 1.15 | 0.83 |
| SO₂ Emissions: | | | |
| lb/MMBtu | -- | 0.000087 | 0.000202 |
| ppmvd | -- | 0.015 | 0.035 |
| ppmvd @ 15% O ₂ | -- | 0.017 | 0.040 |
| lb/hr | 0.20 | 0.027 | 0.064 |
| O₂ Emissions: | | | |
| % | -- | 15.88 | 15.78 |

*THC Emissions as CH₄ were reported in the final results because the NMHC VOC lb/MMBtu numbers were negative.

3.2 TEST CONDITIONS

Emission tests were performed while the source units, and applicable abatement units, were operating at the condition. Tests were performed the following condition:

- Base Load Condition

Plant personnel established the test conditions and collected all applicable unit-operating data. Montrose monitored the collection of process data.

3.3 TEST PROGRAM SCHEDULE

The test program schedule is presented in Table 3-2.

**TABLE 3-2
TEST MATRIX AND SCHEDULE**

| Date | Source ID/ Activity | Sample Runs | Sample Duration |
|--------------------|---|----------------|--------------------|
| September 20, 2021 | Unit 1, Stack | | |
| | NO _x , O ₂ , CO ₂ , CO | 3 | 60 to 180 Minutes |
| | VOCs | 3 | 60 to 180 Minutes |
| | SO ₂ | 1 | Grab Sample |
| September 21, 2021 | Unit 2, Stack | | |
| | NO _x , O ₂ , CO ₂ , CO | 3 | 60 to 180 Minutes |
| | VOCs | 3 | 60 to 180 Minutes |
| | SO ₂ | 1 | Grab Sample |

3.4 MONTROSE TEST PROCEDURES

The test procedures used for this test program are summarized in Table 3-3 below. Additional information regarding specific applications or modifications to standard procedures is presented in the following sub-sections.

**TABLE 3-3
TEST PROCEDURES**

| Parameter | Measurement Principle | Reference Method |
|----------------------|----------------------------|------------------|
| Volumetric flow rate | Stoichiometric calculation | EPA 19 |
| NO _x | Chemiluminescence | EPA 7E |
| O ₂ | Paramagnetism | EPA 3A |
| CO ₂ | Non-dispersive infrared | EPA 3A |

| | | |
|-----------------|-----------------------------|------------|
| CO | Gas filter correlation NDIR | EPA 10 |
| SO ₂ | Fuel Gas Sample | ASTM D3246 |
| VOC | FID, Tedlar bag / GC | EPA 25/A18 |
| Moisture | Impinger weight gain | EPA 4 |

3.4.1 Gaseous Emissions

Concentrations of the gaseous constituents of stack gas (O₂, CO₂, NO_x and CO) were measured using Montrose's dry extractive reference method (RM) monitor system in accordance with EPA Method 3A, 7E and 10. This system meets the requirements of EPA methods for gaseous species. Pertinent information regarding the performance of the method is presented below:

- Method Deviations: None
 - Method Options: N/A
 - Detection Limits: <2% of Span

Sampling traverse points for gaseous emissions were determined in accordance with EPA Method 7E. Stratification test was failing after two ports and the test was aborted. The three compliance test were completed performing a full traverse during each test, and five (5) ports and six (6) points were used for each compliance test.

3.4.2 Volatile Organic Compounds

Concentrations of volatile organic compounds (VOCs) were measured by flame ionization detection (FID) and gas chromatographic (GC) analysis of sample gas collected per EPA Method 18 and 25A. Pertinent information regarding the performance of the method is presented below:

Method Deviations: THC Emissions as CH₄ were reported in the final results because the NMHC VOC lb/MMBtu numbers were negative.

- Sampling Media: Direct measurement for M25A, M18 Methane/Ethane samples collected using integrated Tedlar bag sampling
- Target Analytes: Total non-methane, non-ethane hydrocarbons
- Method 4 results were used to correct VOC concentrations to dry basis.
- Analytical Laboratory: ACC Laboratory – M18

3.4.7 Fuel Analysis

Sample gas from the facility's natural gas fuel supply pipeline was collected and submitted for analysis. Pertinent information regarding the fuel analysis is presented below:

- Analytical Method: ASTM D-1945/ASTM D-3246/ASTM-3588
 - Sample Containers: Teflon-coated pressurized fuel bombs

- Analytical Laboratory: Texas Oil Tech Laboratories, Inc., Houston

3.4.10 Process Data

The plant's unit operating data was used to document process conditions during the test runs. Unit operating data was provided by GE personnel. Data presented in this report includes the following:

- Fuel flow rates
- Power output

4.0 QUALITY ASSURANCE AND REPORTING

4.1 SAMPLING AND ANALYTICAL QA/QC

Montrose has instituted a rigorous QA/QC program for all of its air pollution testing. Quality assurance audits are performed as part of the test program to ensure that the final results are calculated from the highest quality data. The program ensures that the emission data reported are as accurate as possible. The procedures included in the cited reference methods were followed for all steps of preparation, sampling, calibration, and analysis. Montrose was responsible for preparation, calibration and cleaning of the sampling apparatus. Montrose also conducted the sampling and sample recovery, storage, and shipping.

Contract laboratories conducted some of the preparation and sample analyses as needed. The laboratories that were used are established leaders in development and performance of the reference methods for which they have been selected. Their credentials for adherence to the required quality assurance procedures are well known.

4.2 QUALITY CONTROL PROCEDURES

Our Quality Assurance Program Summary, located in Appendix A, provides our equipment maintenance and calibration schedule, quality control acceptance limits, and any corrective action that may be needed. For additional quality control, Montrose followed the procedures outlined below and in the method write-ups in Section 3.4.

4.2.1 Equipment Inspection and Maintenance

- Each critical piece of field equipment was assigned a unique identification number to allow tracking of its calibration history
 - All field equipment was visually inspected prior to testing and included pre-test calibration checks
 - Glassware was visually inspected prior to testing

4.2.2 Equipment Calibrations

Our equipment maintenance and calibration schedule is located in Appendix A.

4.3 DATA ANALYSIS, VALIDATION, AND UNCERTAINTY

The raw data collected during the sampling and analysis procedures were used to calculate the results of the testing program. The analysis or reduction of the data to the final results followed these steps, where appropriate to the test method:

- Check field-sampling data for accuracy and calculate appropriate data averages (e.g., temperatures, pressures, volumes, etc.).
 - Double check calculation of the data averages.
 - Review all in-house and contract laboratory reports and ensure that appropriate and/or required QA/QC steps were followed.
 - Enter field and laboratory data to established and verified computer spreadsheets for calculation of volumetric flow rates, mass emission rates or other appropriate results.
 - Double-check all lab and field data inputs.
 - Perform example calculations by hand using raw data on a single test run for each type of emission result reported.
 - Compile summary tables of results and review all table inputs.

This report includes copies of spreadsheet printouts (data input and results output) and example calculation checks. The field data sheets with average data calculations are also included. Standard conditions used for data reduction are 29.92 inches of mercury and 68 °F. All values found to be below the detection limit of the analytical method are reported as “less than” (“<”) either the full detection limit value, one-half of the detection limit, or zero based on the applicable method.

5.0 DISCUSSION OF RESULTS

5.1 DETAILED DISCUSSION OF RESULTS

The average results are compared to the permit limits and performance specifications in Tables 1-1. The results of individual compliance test runs performed on Unit 1 and Unit 2 are presented in Tables 5-1 through 5-6.

Additional information is included in the appendices. Appendix A presents the quality assurance information, including instrument calibration data. Raw field data sheets are included in Appendix B. Appendix C presents the general and specific equations used for the emissions calculations and computer spreadsheets. Laboratory reports and chain of custody sheets for the samples are located in Appendix D.

5.2 PROBLEMS/DEVIATIONS/EXCEPTIONS

There no problems encountered during the testing.

**TABLE 5-1
RESULTS SUMMARY GASEOUS EMISSIONS
CALPINE GREEN LEAF 1
TM2500 (Unit 1)**

| Reference Method Test Run Data | | | | | | | | | | |
|---|--------------|----------------------------------|---|---------------------------------------|-------------------------------------|----------------------------|----------------------------|-----------------------------|--|--|
| Client: | GE Power | | | | Test Start Date: | Monday, September 20, 2021 | | | | |
| Facility: | Green Leaf 1 | | | | Operator: | Tom Cassin | | | | |
| Source: | TM 2500 GT 1 | | | | F Factor Information | | | | | |
| Test Location: | Stack | | | | F ₁ | - | | | | |
| Condition/Load: | Base | | | | F ₂ | 8615.6 | | | | |
| Project Number: | PRCJ-011221 | | | | Reference Method Measurement Basis: | Dry - Extractive | | | | |
| | | | | | CEMS Analyzer Measurement Basis: | - | | | | |
| Uncorrected Reference Method Analyzer Results | | | | | | | | | | |
| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) | | |
| 1 | 09/20/21 | 10:26 | 11:58 | 13.82 | 18.63 | - | 15.77 | 3.05 | | |
| 2 | 09/20/21 | 12:19 | 13:47 | 8.77 | 20.91 | - | 15.79 | 3.04 | | |
| 3 | 09/20/21 | 14:05 | 15:31 | 27.15 | 17.52 | - | 15.94 | 2.90 | | |
| Calibration Corrected Reference Method Analyzer Results | | | | | | | | | | |
| Moisture Basis: As Measured | | | | | | | | | | |
| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) | | |
| 1 | 09/20/21 | 10:26 | 11:58 | 13.76 | 18.74 | - | 15.79 | 3.07 | | |
| 2 | 09/20/21 | 12:19 | 13:47 | 8.93 | 21.03 | - | 15.84 | 3.07 | | |
| 3 | 09/20/21 | 14:05 | 15:31 | 27.12 | 17.48 | - | 16.00 | 2.92 | | |
| Reference Method Emission Rate Summary - lb/MMBtu | | | | | | | | | | |
| Run Number | Test Date | CO lb/MMBtu | NO _x lb/MMBtu | SO ₂ lb/MMBtu | F ₁ Factor | F ₂ Factor | | | | |
| 1 | 09/20/21 | 0.035 | 0.0788 | - | - | 8615.6 | | | | |
| 2 | 09/20/21 | 0.023 | 0.0893 | - | - | 8615.6 | | | | |
| 3 | 09/20/21 | 0.072 | 0.077 | - | - | 8615.6 | | | | |
| Reference Method Emission Rate Summary - lb/hr Using Heat Input and lb/MMBtu Emissions Factor | | | | | | | | | | |
| Run Number | Test Date | CO lb/hr | NO _x lb/hr | SO ₂ lb/hr | Heat Input MMBtu/hr | | | | | |
| 1 | 09/20/21 | 11.25 | 25.17 | - | 319.5 | | | | | |
| 2 | 09/20/21 | 7.03 | 27.20 | - | 304.56 | | | | | |
| 3 | 09/20/21 | 22.75 | 24.09 | - | 314.05 | | | | | |
| Test Run Data Corrected to Reference O ₂ | | | | | | | | | | |
| Corrected Data | | | | | Data Used for Correction | | | | | |
| Run Number | Test Date | CO ppmvd Corrected to 15% Oxygen | NO _x ppmvd Corrected to 15% Oxygen | SO ₂ ppmvd Corrected to NA | CO ppmvd | NO _x ppmvd | SO ₂ ppmvd | O ₂ (% v/v Dry) | | |
| 1 | 09/20/21 | 15.87 | 21.62 | - | 13.76 | 18.74 | - | 15.79 | | |
| 2 | 09/20/21 | 10.41 | 24.51 | - | 8.93 | 21.03 | - | 15.84 | | |
| 3 | 09/20/21 | 32.66 | 21.05 | - | 27.12 | 17.48 | - | 16.00 | | |

**TABLE 5-3
RESULTS SUMMARY SULFUR DIOXIDE EMISSIONS
CALPINE GREEN LEAF 1
TM2500 (Unit 1)**

| SOURCE TEST DATA SUMMARY | | | | |
|---|----------|----------|----------|----------|
| Client..... | GE Power | | | |
| Unit / Location..... | Unit 1 | | | |
| Reference temperature, °F..... | 68 | | | |
| Test number..... | Grab 1 | Grab 1 | Grab 1 | Average |
| Date..... | 9-20-21 | 9-20-21 | 9-20-21 | -- |
| <u>FUEL DATA</u> | | | | |
| Fuel "F" factor @ 68°F, dscf/MMBtu..... | 8,616 | 8,616 | 8,616 | 8,616 |
| Fuel "F" factor @ T _{ref} , dscf/MMBtu..... | 8,616 | 8,616 | 8,616 | 8,616 |
| Fuel higher heating value (HHV), Btu/scf..... | 1,048 | 1,048 | 1,048 | 1,048 |
| Fuel density, lb/scf..... | 0.0454 | 0.0454 | 0.0454 | 0.0454 |
| Fuel flow, lb/sec..... | 3.79 | 3.61 | 3.73 | 3.71 |
| Fuel flow, scfh..... | 300,529 | 286,256 | 295,771 | 294,185 |
| Fuel Sulfur, ppm weight..... | 1.0 | 1.0 | 1.0 | 1.0 |
| Fuel Sulfur, gr/100 scf..... | 0.0318 | 0.0318 | 0.0318 | 0.0318 |
| <u>ANALYZER DATA</u> | | | | |
| O ₂ % volume dry..... | 15.79 | 15.84 | 16.00 | 15.88 |
| <u>VOLUMETRIC FLOW RATE</u> | | | | |
| Stack flow rate - based on fuel, dscfm..... | 184,884 | 177,843 | 189,755 | 184,161 |
| <u>EMISSIONS</u> | | | | |
| SO ₂ concentrations, ppm volume dry..... | 0.015 | 0.015 | 0.014 | 0.015 |
| ^{2b} SO ₂ concentrations, ppm @ 15% O ₂ dry..... | 0.017 | 0.017 | 0.017 | 0.017 |
| ^{2e} SO ₂ mass emissions, lb/hr..... | 0.027 | 0.026 | 0.027 | 0.027 |
| ^{2f} SO ₂ mass emissions, lb/MMBtu..... | 0.000087 | 0.000087 | 0.000087 | 0.000087 |

**TABLE 5-4
RESULTS SUMMARY GASEOUS EMISSIONS
CALPINE GREEN LEAF 1
TM2500 (Unit 2)**

| Reference Method Test Run Data | | | | | | | | | | |
|---|--------------|----------------------------------|---|---------------------------------------|-------------------------------------|-----------------------------|----------------------------|-----------------------------|--|--|
| Client: | GE Power | | | | Test Start Date: | Tuesday, September 21, 2021 | | | | |
| Facility: | Green Leaf 1 | | | | Operator: | Tom Cassin | | | | |
| Source: | TM 2500 GT 2 | | | | F Factor Information | | | | | |
| Test Location: | Slack | | | | F _c | - | | | | |
| Condition/Load: | Base | | | | F _d | 86215 | | | | |
| Project Number: | PROJ-011221 | | | | Reference Method Measurement Basis: | Dry - Extractive | | | | |
| | | | | | CEMS Analyzer Measurement Basis: | - | | | | |
| Uncorrected Reference Method Analyzer Results | | | | | | | | | | |
| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) | | |
| 1 | 09/21/21 | 8:19 | 9:39 | 10.97 | 19.19 | - | 15.63 | 3.12 | | |
| 2 | 09/21/21 | 9:55 | 11:15 | 12.54 | 17.78 | - | 15.74 | 3.04 | | |
| 3 | 09/21/21 | 11:33 | 12:56 | 9.91 | 18.66 | - | 15.98 | 2.87 | | |
| Calibration Corrected Reference Method Analyzer Results | | | | | | | | | | |
| Moisture Basis As Measured | | | | | | | | | | |
| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) | | |
| 1 | 09/21/21 | 8:19 | 9:39 | 10.97 | 19.21 | - | 15.59 | 3.13 | | |
| 2 | 09/21/21 | 9:55 | 11:15 | 12.68 | 17.83 | - | 15.74 | 3.05 | | |
| 3 | 09/21/21 | 11:33 | 12:56 | 10.03 | 18.75 | - | 16.02 | 2.88 | | |
| Reference Method Emission Rate Summary - lb/MMBtu | | | | | | | | | | |
| Run Number | Test Date | CO lb/MMBtu | NO _x lb/MMBtu | SO ₂ lb/MMBtu | F _c Factor | F _d Factor | | | | |
| 1 | 09/21/21 | 0.027 | 0.0778 | - | - | 86215 | | | | |
| 2 | 09/21/21 | 0.032 | 0.0743 | - | - | 86215 | | | | |
| 3 | 09/21/21 | 0.027 | 0.083 | - | - | 86215 | | | | |
| Reference Method Emission Rate Summary - lb/hr Using Heat Input and lb/MMBtu Emissions Factor | | | | | | | | | | |
| Run Number | Test Date | CO lb/hr | NO _x lb/hr | SO ₂ lb/hr | Heat Input MMBtu/hr | | | | | |
| 1 | 09/21/21 | 8.99 | 25.87 | - | 332.5 | | | | | |
| 2 | 09/21/21 | 10.29 | 23.77 | - | 319.95 | | | | | |
| 3 | 09/21/21 | 8.47 | 26.01 | - | 314.41 | | | | | |
| Test Run Data Corrected to Reference O ₂ | | | | | | | | | | |
| Corrected Data | | | | | Data Used for Correction | | | | | |
| Run Number | Test Date | CO ppmvd Corrected to 15% Oxygen | NO _x ppmvd Corrected to 15% Oxygen | SO ₂ ppmvd Corrected to NA | CO ppmvd | NO _x ppmvd | SO ₂ ppmvd | O ₂ (% v/v Dry) | | |
| 1 | 09/21/21 | 12.18 | 21.34 | - | 10.97 | 19.21 | - | 15.59 | | |
| 2 | 09/21/21 | 14.49 | 20.38 | - | 12.68 | 17.83 | - | 15.74 | | |
| 3 | 09/21/21 | 12.14 | 22.69 | - | 10.03 | 18.75 | - | 16.02 | | |

**TABLE 5-6
RESULTS SUMMARY SULFUR DIOXIDE EMISSIONS
CALPINE GREEN LEAF 1
TM2500 (Unit 2)**

| SOURCE TEST DATA SUMMARY | | | | |
|---|----------|----------|----------|----------|
| Client..... | GE Power | | | |
| Unit / Location..... | Unit 2 | | | |
| Reference temperature, °F..... | 68 | | | |
| Test number..... | Grab 1 | Grab 1 | Grab 1 | Average |
| Date..... | 9-21-21 | 9-21-21 | 9-21-21 | -- |
| <u>FUEL DATA</u> | | | | |
| Fuel "F" factor @ 68°F, dscf/MMBtu..... | 8,622 | 8,622 | 8,622 | 8,622 |
| Fuel "F" factor @ T _{ref} , dscf/MMBtu..... | 8,622 | 8,622 | 8,622 | 8,622 |
| Fuel higher heating value (HHV), Btu/scf..... | 1,008 | 1,008 | 1,008 | 1,008 |
| Fuel density, lb/scf..... | 0.0444 | 0.0444 | 0.0444 | 0.0444 |
| Fuel flow, lb/sec..... | 4.01 | 3.85 | 3.79 | 3.88 |
| Fuel flow, scfh..... | 325,135 | 312,162 | 307,297 | 314,865 |
| Fuel Sulfur, ppm weight..... | 2.3 | 2.3 | 2.3 | 2.3 |
| Fuel Sulfur, gr/100 scf..... | 0.0715 | 0.0715 | 0.0715 | 0.0715 |
| <u>ANALYZER DATA</u> | | | | |
| O ₂ % volume dry..... | 15.59 | 15.74 | 16.02 | 15.78 |
| <u>VOLUMETRIC FLOW RATE</u> | | | | |
| Stack flow rate - based on fuel, dscfm..... | 185,408 | 183,185 | 190,677 | 186,423 |
| <u>EMISSIONS</u> | | | | |
| SO ₂ concentrations, ppm volume dry..... | 0.036 | 0.035 | 0.033 | 0.035 |
| ^{2b} SO ₂ concentrations, ppm @ 15% O ₂ dry..... | 0.040 | 0.040 | 0.040 | 0.040 |
| ^{2e} SO ₂ mass emissions, lb/hr..... | 0.066 | 0.064 | 0.063 | 0.064 |
| ^{2f} SO ₂ mass emissions, lb/MMBtu..... | 0.000202 | 0.000202 | 0.000202 | 0.000202 |

APPENDIX A QUALITY ASSURANCE AND QUALITY CONTROL

Appendix A.1

ASTM D-7036 Accreditation/QI Certificates

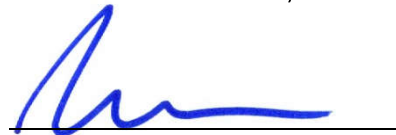
Accredited Air Emission Testing Body

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 11th day of February 2020.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3925.01
Valid to February 28, 2022

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

CERTIFICATE OF COMPLETION

Zach LeFever

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: 011-2019-68

Tate Strickler

Tate Strickler, Accreditation Director

DATE OF ISSUE: 3/15/19

DATE OF EXPIRATION: 3/15/24



MONTROSE
ENVIRONMENTAL

CERTIFICATE OF COMPLETION

Thomas E Cassin

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

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

Certificate Number: 023-2021-23



Tate Strickler, VP – Quality Systems

DATE OF ISSUE:

5/4/21

DATE OF EXPIRATION:

5/3/26



MONTROSE
ENVIRONMENTAL

Appendix A.2

RM Analyzer Calibration Data

Relative Accuracy Test Audit Analyzer Data

| | | | |
|-----------------|--------------|------------------------------------|----------------------------|
| Client: | GE Power | Test Start Date: | Monday, September 20, 2021 |
| Facility: | Green Leaf 1 | Operator: | Tom Cassin |
| Source: | TM 2500 GT 1 | Reference Method Measurement Basis | Dry - Extractive |
| Test Location: | Stack | CEMS Analyzer Measurement Basis | - |
| Condition/Load: | Base | | |
| Project Number: | PROJ-011221 | | |

Analyzer Information

Reference Method Analyzers

| Pollutant Measured | Make | Model | Serial Number |
|--------------------|----------|-------|---------------|
| CO | Thermo | 48i | 1160990031 |
| NO _x | Thermo | 42i | 1160990029 |
| O ₂ | Teledyne | T803 | 88 |
| CO ₂ | Teledyne | T803 | 88 |

Method 25A Analyzer Data

| | | | |
|-----------------|-------------|------------------|----------------------------|
| Client: | GE | Test Start Date: | Monday, September 20, 2021 |
| Facility: | Greenleaf 1 | Operator: | Tom Cassin |
| Test Location: | Stack | | |
| Condition/Load: | Base | | |
| Project Number: | PROJ-01221 | | |

Analyzer Information

Reference Method Analyzers

| Source | Make | Model | Serial Number |
|----------|------|-----------|---------------|
| Source 1 | JUM | FID 3-500 | 20013023-35 |



Initial Analyzer Calibration Error Check

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 1 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|------------------|------------|
| Test Start Date: | 9/20/2021 |
| Operator: | Tom Cassin |

Initial Linearity Calibration Data

| Pollutant Measured | Calibration Gas Level | Calibration Gas Cylinder Data | | | Absolute Difference | Analyzer Response | Calibration Error Percentage | Pass/Fail Status |
|--------------------|-----------------------|-------------------------------|---------------|---------------------------------|---------------------|-------------------|------------------------------|------------------|
| | | Expiration Date | Serial Number | Concentration (C _v) | | | | |
| CO | High | 2/7/2023 | CC192422 | 48.64 | 0.05 | 48.69 | 0.10 | Pass |
| | Mid | 2/1/2024 | EB0080203 | 23.82 | 0.38 | 24.20 | 0.78 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.06 | -0.06 | 0.12 | Pass |
| NO _x | High | 2/7/2023 | CC192422 | 46.48 | 0.17 | 46.65 | 0.37 | Pass |
| | Mid | 2/1/2024 | EB0080203 | 24.04 | 0.03 | 24.07 | 0.06 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.10 | -0.10 | 0.22 | Pass |
| O ₂ | High | 1/15/2026 | EB0088291 | 20.87 | 0.07 | 20.94 | 0.34 | Pass |
| | Mid | 5/10/2029 | CC100657 | 10.32 | 0.03 | 10.35 | 0.14 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.01 | -0.01 | 0.05 | Pass |
| CO ₂ | High | 1/15/2026 | EB0088291 | 19.50 | 0.09 | 19.59 | 0.46 | Pass |
| | Mid | 5/10/2029 | CC100657 | 10.01 | 0.11 | 9.90 | 0.56 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.03 | 0.03 | 0.15 | Pass |

Method 25A Analyzer Data

| | | | |
|-----------------|-------------|---------------------------|------------|
| Client: | GE | Test Start Date: | 9/20/2021 |
| Facility: | Greenleaf 1 | Operator: | Tom Cassin |
| Test Location: | Stack | | |
| Condition/Load: | Base | Gas Used for Calibration: | Propane |
| Project Number: | PROJ-01221 | Gas Used for Zero: | Air |

RM Analyzer Linearity Calibration Data

| Sampling Location | Calibration Gas Cylinder Values | | | Calibration Gas Level | Range | Predicted Response | System Response | Calibration Error Percentage | Pass/Fail <±5% |
|-------------------|---------------------------------|------------|---------------|-----------------------|-------|--------------------|-----------------|------------------------------|----------------|
| | Cylinder ID | Exp Date | Concentration | | | | | | |
| Source 1 | CC145376 | 3/19/2026 | 16.92 | High | 20 | | 16.96 | 0.20 | Pass |
| | CC431837 | 10/20/2028 | 9.87 | Mid | | 9.89 | 9.86 | -0.33 | Pass |
| | CC287500 | 4/10/2029 | 5.98 | Low | | 5.99 | 6.01 | 0.39 | Pass |
| | EB0039484 | 4/5/2027 | 0.00 | Zero | | | 0.00 | 0.00 | Pass |

**GE Power
Greenleaf1 GT1
Base Load**

Linearity

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|------------------------|------------------|-----------------|--------------|--------------|------------------|----------|
| 9/20/21 5:28 AM | -0.1 | -0.1 | 21.17 | 0 | 0.97 | |
| 9/20/21 5:29 AM | -0.09 | -0.11 | 0.12 | 0.33 | -0.22 | |
| 9/20/21 5:30 AM | -0.15 | -0.03 | -0.01 | 0.04 | -0.29 | |
| 9/20/21 5:31 AM | -0.1 | -0.06 | -0.01 | 0.03 | -0.18 | Z |
| 9/20/21 5:32 AM | -0.08 | -1.13 | 20.83 | 5.39 | 0.01 | |
| 9/20/21 5:33 AM | -0.08 | -0.97 | 20.94 | 18.64 | 0.03 | |
| 9/20/21 5:34 AM | -0.09 | -1.02 | 20.94 | 19.59 | -0.02 | H |
| 9/20/21 5:35 AM | -0.12 | -0.93 | 14.04 | 18.84 | -0.22 | |
| 9/20/21 5:36 AM | -0.15 | -0.81 | 10.37 | 10.42 | -0.18 | |
| 9/20/21 5:37 AM | -0.07 | -0.9 | 10.35 | 9.9 | -0.18 | M |
| 9/20/21 5:38 AM | 37.01 | 38.94 | 0.05 | 5.32 | -0.26 | |
| 9/20/21 5:39 AM | 46.6 | 48.74 | -0.01 | 0.02 | -0.26 | |
| 9/20/21 5:40 AM | 46.65 | 48.69 | -0.02 | 0 | -0.26 | H |
| 9/20/21 5:41 AM | 35.74 | 30.43 | -0.02 | 0.01 | -0.32 | |
| 9/20/21 5:42 AM | 24.06 | 24.28 | -0.02 | -0.01 | -0.26 | |
| 9/20/21 5:43 AM | 24.07 | 24.2 | -0.03 | 0.01 | -0.27 | |
| 9/20/21 5:44 AM | 23.98 | 23.95 | -0.03 | 0.01 | -0.25 | |
| 9/20/21 5:45 AM | 0.07 | 0 | -0.01 | 0.01 | -0.27 | |
| 9/20/21 5:56 AM | -0.09 | -0.04 | 19.65 | 0 | -0.12 | |
| 9/20/21 5:57 AM | -0.02 | -0.9 | 10.35 | 8.83 | 0 | Z |
| 9/20/21 5:58 AM | -0.14 | -0.79 | 19.7 | 9.97 | 17.02 | |
| 9/20/21 5:59 AM | -0.09 | -0.18 | 21.25 | 0.27 | 16.96 | H |
| 9/20/21 6:00 AM | -0.07 | -0.15 | 21.16 | 0 | 9.87 | |
| 9/20/21 6:01 AM | -0.04 | -0.26 | 20.9 | 0.02 | 9.86 | M |
| 9/20/21 6:02 AM | -0.08 | -0.26 | 21.25 | 0.01 | 6.04 | |
| 9/20/21 6:03 AM | -0.09 | -0.31 | 21.41 | 0.02 | 6.01 | L |
| 9/20/21 6:04 AM | -0.09 | -0.29 | 21.41 | 0.02 | 1.03 | |

Measurement System Response Time Test

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 1 |
| Test Location: | Stack |
| Project Number: | PROJ-011221 |

| | |
|--------------------------|------------|
| Response Time Test Date: | 09/20/21 |
| Operator: | Tom Cassin |

Upscale Response Time Test

| Pollutant Measured | Calibration Gas Used (Mid or High) | Calibration Gas Concentration | Stable Response | Start Time | Time to Target Value | Upscale Target Value | Response Time |
|--------------------|------------------------------------|-------------------------------|-----------------|------------|----------------------|----------------------|---------------|
| CO | Mid | 23.82 | 24.13 | 5:52:00 | 5:53:00 | 22.92 | 0:01:00 |
| NO _x | Mid | 24.04 | 23.90 | 5:52:00 | 5:53:00 | 22.71 | 0:01:00 |
| O ₂ | Mid | 10.32 | 10.35 | 5:46:00 | 5:47:00 | 9.83 | 0:01:00 |

Downscale Response Time Test

| Pollutant Measured | Calibration Gas Used (Mid or High) | Calibration Gas Concentration | Start Time | Time to Target Value | Downscale Target Value ¹ | Response Time |
|--------------------|------------------------------------|-------------------------------|------------|----------------------|-------------------------------------|---------------|
| CO | Mid | 23.82 | 5:54:00 | 5:55:00 | 1.19 | 0:01:00 |
| NO _x | Mid | 24.04 | 5:54:00 | 5:55:00 | 1.20 | 0:01:00 |
| O ₂ | Mid | 10.32 | 5:48:00 | 5:49:00 | 0.52 | 0:01:00 |

Measurement System Response Time Test

| | |
|-----------------|-------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack |
| Project Number: | PROJ-01221 |

| | |
|--------------------------|------------|
| Response Time Test Date: | 9/20/2021 |
| Operator: | Tom Cassin |

Upscale Response Time Test

| Pollutant Measured | Calibraton Gas Used | Calibration Gas Concentration | Target Response | Start Time | Time to Target Value | Upscale Target Value | Response Time |
|--------------------|---------------------|-------------------------------|-----------------|------------|----------------------|----------------------|---------------|
| Source 1 | Mid | 9.873 | 9.86 | 6:06:00 | 6:07:00 | 9.37 | 0:01:00 |

Downscale Response Time Test

| Pollutant Measured | Calibraton Gas Used | Calibration Gas Concentration | Start Time | Time to Target Value | Downscale Target Value ¹ | Response Time |
|--------------------|---------------------|-------------------------------|------------|----------------------|-------------------------------------|---------------|
| Source 1 | Mid | 9.873 | 6:08:00 | 6:09:00 | 0.49 | 0:01:00 |

**GE Power
Greenleaf1 GT1
Base Load**

Response Time

| | NOx ppmvd | CO ppmvd | O2% | UHC ppmvw |
|-----------------|------------------|-----------------|------------|------------------|
| 9/20/21 5:45 AM | 0.07 | 0 | -0.01 | -0.27 |
| 9/20/21 5:46 AM | -0.01 | 0.02 | -0.01 | -0.16 |
| 9/20/21 5:47 AM | -0.06 | -0.92 | 10.35 | -0.21 |
| 9/20/21 5:48 AM | -0.11 | -0.81 | 10.33 | -0.22 |
| 9/20/21 5:49 AM | -0.06 | -0.1 | -0.01 | -0.23 |
| 9/20/21 5:50 AM | -0.06 | -0.06 | -0.02 | -0.21 |
| 9/20/21 5:51 AM | -0.07 | 0 | -0.03 | -0.25 |
| 9/20/21 5:52 AM | -0.16 | -0.07 | 0.02 | -0.25 |
| 9/20/21 5:53 AM | 23.9 | 24.13 | -0.03 | -0.26 |
| 9/20/21 5:54 AM | 23.96 | 24.26 | -0.01 | -0.27 |
| 9/20/21 5:55 AM | 0.07 | 0.1 | -0.03 | -0.24 |
| 9/20/21 5:56 AM | -0.09 | -0.04 | 19.65 | -0.12 |
| 9/20/21 6:05 AM | -0.07 | -0.54 | 10.61 | 0.02 |
| 9/20/21 6:06 AM | -0.14 | -0.84 | 10.37 | 0.03 |
| 9/20/21 6:07 AM | -0.09 | -0.44 | 20.91 | 9.86 |
| 9/20/21 6:08 AM | -0.05 | -0.27 | 20.93 | 9.81 |
| 9/20/21 6:09 AM | -0.07 | -0.55 | 10.67 | -0.03 |
| 9/20/21 6:10 AM | -0.12 | -0.51 | 21.07 | 1.06 |

Measurement Ranges

| Day 1 | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) |
|---|-------------|--------------------------|--------------------------|---------------------------|----------------------------|
| Measurement Ranges Based on Calibration Gas | 48.64 | 46.48 | - | 20.87 | 19.50 |

Low-Level or Zero Calibration Gas System Responses

| Day 1 = A Day 2 = B | Run Number | Test Date | CO (ppm) | | NO _x (ppm) | | SO ₂ (ppm) | | O ₂ (% vol) | | CO ₂ (% vol) | |
|------------------------|------------|-----------|-------------|----------|--------------------------|----------|--------------------------|----------|---------------------------|----------|----------------------------|----------|
| | | | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal |
| A | 1 | 09/20/21 | -0.05 | -0.19 | 0.01 | 0.02 | - | - | -0.01 | -0.02 | 0.01 | 0.00 |
| A | 2 | 09/20/21 | -0.19 | -0.29 | 0.02 | 0.02 | - | - | -0.02 | -0.03 | 0.00 | 0.00 |
| A | 3 | 09/20/21 | -0.29 | -0.05 | 0.02 | 0.06 | - | - | -0.03 | -0.03 | 0.00 | 0.02 |

| Day 1 | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) |
|-----------------|-------------|--------------------------|--------------------------|---------------------------|----------------------------|
| High or Mid | Mid | Mid | - | Mid | Mid |
| C _{MA} | 23.82 | 24.04 | - | 10.32 | 10.01 |

High-Level Calibration Gas System Responses

| Day 1 = A Day 2 = B | Run Number | Test Date | CO (ppm) | | NO _x (ppm) | | SO ₂ (ppm) | | O ₂ (% vol) | | CO ₂ (% vol) | |
|------------------------|------------|-----------|-------------|----------|--------------------------|----------|--------------------------|----------|---------------------------|----------|----------------------------|----------|
| | | | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal |
| A | 1 | 09/20/21 | 24.13 | 23.91 | 23.75 | 24.03 | - | - | 10.32 | 10.29 | 9.94 | 9.95 |
| A | 2 | 09/20/21 | 23.91 | 23.67 | 24.03 | 23.78 | - | - | 10.29 | 10.27 | 9.95 | 9.87 |
| A | 3 | 09/20/21 | 23.67 | 23.99 | 23.78 | 24.38 | - | - | 10.27 | 10.27 | 9.87 | 9.95 |

Calibration Error and Drift Summary

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 1 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|------------------|----------------------------|
| Test Start Date: | Monday, September 20, 2021 |
| Operator: | Tom Cassin |

Carbon Monoxide (CO) Bias and Drift Data

| Run Number | Cal Gas Level | | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|------------------------------|----------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| | Low & Upscale | Span Gas Concentration (ppm) | | | Direct Response (ppm) | System Response (ppm) | System Bias % of Span | System Response (ppm) | System Bias % of Span | % of Span (D) |
| 1 | Low | 48.64 | 48.64 | -0.06 | -0.05 | 0.0 | -0.19 | -0.3 | 0.3 | |
| | Upscale | 48.64 | | | | | | | | 24.20 |
| 2 | Low | 48.64 | 48.64 | -0.06 | -0.19 | -0.3 | -0.29 | -0.5 | 0.2 | |
| | Upscale | 48.64 | | | | | | | | 24.20 |
| 3 | Low | 48.64 | 48.64 | -0.06 | -0.29 | -0.5 | -0.05 | 0.0 | 0.5 | |
| | Upscale | 48.64 | | | | | | | | 24.20 |

Nitrogen Oxides (NO_x) Bias and Drift Data

| Run Number | Cal Gas Level | | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|------------------------------|----------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| | Low & Upscale | Span Gas Concentration (ppm) | | | Direct Response (ppm) | System Response (ppm) | System Bias % of Span | System Response (ppm) | System Bias % of Span | % of Span (D) |
| 1 | Low | 46.48 | 46.48 | -0.10 | 0.01 | 0.2 | 0.02 | 0.3 | 0.0 | |
| | Upscale | 46.48 | | | | | | | | 24.07 |
| 2 | Low | 46.48 | 46.48 | -0.10 | 0.02 | 0.3 | 0.02 | 0.3 | 0.0 | |
| | Upscale | 46.48 | | | | | | | | 24.07 |
| 3 | Low | 46.48 | 46.48 | -0.10 | 0.02 | 0.3 | 0.06 | 0.3 | 0.1 | |
| | Upscale | 46.48 | | | | | | | | 24.07 |

Oxygen (O₂) Bias and Drift Data

| Run Number | Cal Gas Level | C _v Span Gas & Concentration (%vol) | C _{Dir} Direct Response (%vol) | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------------|---|--|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------|--|
| | Low & Upscale | | | System Response (ppm) | System Bias % of Span | System Response (%vol) | System Bias % of Span | % of Span (D) | |
| 1 | Low | 20.87 | -0.01 | -0.01 | 0.0 | -0.02 | 0.0 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.32 | -0.1 | 10.29 | -0.3 | 0.1 | |
| 2 | Low | 20.87 | -0.01 | -0.02 | 0.0 | -0.03 | -0.1 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.29 | -0.3 | 10.27 | -0.4 | 0.1 | |
| 3 | Low | 20.87 | -0.01 | -0.03 | -0.1 | -0.03 | -0.1 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.27 | -0.4 | 10.27 | -0.4 | 0.0 | |

Carbon Dioxide (CO₂) Bias and Drift Data

| Run Number | Cal Gas Level | C _v Span Gas & Concentration (%vol) | C _{Dir} Direct Response (%vol) | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------------|---|--|-----------------------------|-----------------------------|------------------------------|-----------------------------|------------------|--|
| | Low & Upscale | | | System Response (ppm) | System Bias % of Span | System Response (%vol) | System Bias % of Span | % of Span (D) | |
| 1 | Low | 19.50 | 0.03 | 0.01 | -0.1 | 0.00 | -0.2 | 0.1 | |
| | Upscale | 19.50 | 9.90 | 9.94 | 0.2 | 9.95 | 0.3 | 0.1 | |
| 2 | Low | 19.50 | 0.03 | 0.00 | -0.2 | 0.00 | -0.2 | 0.0 | |
| | Upscale | 19.50 | 9.90 | 9.95 | 0.3 | 9.87 | -0.2 | 0.4 | |
| 3 | Low | 19.50 | 0.03 | 0.00 | -0.2 | 0.02 | -0.1 | 0.1 | |
| | Upscale | 19.50 | 9.90 | 9.87 | -0.2 | 9.95 | 0.3 | 0.4 | |

Method 25A Calibration Data

| | |
|-----------------|-------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack |
| Project Number: | PROJ-01221 |
| Test Date: | 9/20/2021 |
| Operator: | Tom Cassin |

Upscale Calibration Gas Used

| | |
|---------------------------|---------|
| Source 1 | |
| Calibration Gas Type | Propane |
| Upscale Gas Used | Mid |
| Upscale Gas Concentration | 9.87 |

Upscale System Response

| Test Run Number | Source 1 | |
|-----------------|----------|----------|
| | Pre Cal | Post Cal |
| 1 | 9.92 | 9.90 |
| 2 | 9.92 | 9.87 |
| 3 | 9.92 | 9.80 |
| 4 | - | - |

Zero System Response

| Test Run Number | Source 1 | |
|-----------------|----------|----------|
| | Pre Cal | Post Cal |
| 1 | -0.01 | 0.13 |
| 2 | -0.01 | -0.12 |
| 3 | -0.01 | -0.06 |
| 4 | - | - |

Method 25A Drift Calculations

| Source 1 | | | | | | |
|----------|---------------------------------|-----------------------|------------------|----------------|------------|-------------------------|
| Run | Span Gas Concentration (ppm) | Calibration Gas Level | System Response | | Drift % | Acceptability +/- 3% |
| | | | Initial (ppm) | Final (ppm) | | |
| 1 | 9.87 | Upscale | 9.92 | 9.90 | -0.10 | Pass |
| | | Zero | -0.01 | 0.13 | 0.70 | Pass |
| 2 | 9.87 | Upscale | 9.92 | 9.87 | -0.25 | Pass |
| | | Zero | -0.01 | -0.12 | -0.55 | Pass |
| 3 | 9.87 | Upscale | 9.92 | 9.80 | -0.60 | Pass |
| | | Zero | -0.01 | -0.06 | -0.25 | Pass |

GE Power
 Greenleaf1 GT1
 Base Load

Pre 1

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|-------------------------|--------------|--------------|--------------|-------------|--------------|----------|
| 9/20/21 10:11 AM | 0.04 | -0.02 | -0.03 | 0.01 | -0.14 | |
| 9/20/21 10:12 AM | 0.01 | -0.05 | -0.01 | 0.01 | -0.07 | Z |
| 9/20/21 10:13 AM | 0.02 | -0.98 | 10.29 | 7.78 | -0.06 | |
| 9/20/21 10:14 AM | -0.05 | -0.86 | 10.32 | 9.94 | -0.09 | M |
| 9/20/21 10:15 AM | 23.53 | 23.66 | -0.01 | 1.18 | -0.09 | |
| 9/20/21 10:16 AM | 23.72 | 24.12 | -0.02 | 0.01 | -0.11 | |
| 9/20/21 10:17 AM | 23.75 | 24.13 | -0.04 | 0.01 | -0.11 | M |
| 9/20/21 10:18 AM | 21.62 | 7.91 | 10.22 | 2 | -0.03 | |
| 9/20/21 10:19 AM | 0.03 | -0.82 | 10.29 | 9.9 | -0.01 | Z |
| 9/20/21 10:20 AM | 7.14 | 1.64 | 20.72 | 5.91 | 9.88 | |
| 9/20/21 10:21 AM | -0.02 | -0.41 | 20.85 | 0.01 | 9.92 | M |
| 9/20/21 10:22 AM | -0.01 | 2.02 | 18.93 | 0.02 | 1.05 | |

GE Power
Greenleaf1 GT1
Base Load

Post1/Pre2

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|-------------------------|------------------|-----------------|--------------|-------------|------------------|----------|
| 9/20/21 12:00 PM | 0.23 | -0.11 | -0.02 | 0.04 | -0.1 | |
| 9/20/21 12:01 PM | 0.11 | -0.09 | -0.02 | -0.01 | -0.08 | |
| 9/20/21 12:02 PM | 0.02 | -0.19 | -0.02 | 0 | -0.02 | Z |
| 9/20/21 12:03 PM | 0.02 | -0.96 | 10.29 | 8.96 | -0.01 | |
| 9/20/21 12:04 PM | 0.03 | -0.9 | 10.3 | 9.96 | -0.07 | |
| 9/20/21 12:05 PM | 0.06 | -0.97 | 10.29 | 9.95 | -0.1 | M |
| 9/20/21 12:06 PM | 23.47 | 23.55 | -0.02 | 1.01 | -0.12 | |
| 9/20/21 12:07 PM | 24.03 | 23.91 | -0.02 | 0.02 | -0.1 | M |
| 9/20/21 12:08 PM | 23.98 | 13.72 | 0.05 | 0.04 | -0.08 | |
| 9/20/21 12:09 PM | 22.31 | 12.98 | 14.73 | 2.27 | 0.13 | |
| 9/20/21 12:10 PM | 0.17 | -0.45 | 20.86 | 16.13 | 0.13 | Z |
| 9/20/21 12:11 PM | -0.02 | -0.41 | 15.63 | 18.79 | 9.15 | |
| 9/20/21 12:12 PM | 0.05 | -0.42 | 20.82 | 1.03 | 9.9 | M |

GE Power
Greenleaf1 GT1
Base Load

Post2/Pre3

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|------------------------|--------------|--------------|--------------|-------------|--------------|----------|
| 9/20/21 1:48 PM | 15.67 | 4.28 | 0.63 | 2.15 | -0.33 | |
| 9/20/21 1:49 PM | 0.08 | -0.29 | -0.02 | 0.29 | -0.23 | |
| 9/20/21 1:50 PM | 0.02 | -0.29 | -0.03 | 0 | -0.3 | Z |
| 9/20/21 1:51 PM | 0.01 | -0.66 | 10.02 | 0.07 | -0.3 | |
| 9/20/21 1:52 PM | -0.02 | -1 | 10.28 | 9.84 | -0.22 | |
| 9/20/21 1:53 PM | -0.06 | -0.98 | 10.27 | 9.87 | -0.21 | M |
| 9/20/21 1:54 PM | 33.06 | 21.26 | 0.01 | 5.33 | -0.34 | |
| 9/20/21 1:55 PM | 23.73 | 23.62 | -0.03 | 0.02 | -0.3 | |
| 9/20/21 1:56 PM | 23.78 | 23.67 | -0.02 | -0.01 | 0.49 | |
| 9/20/21 1:57 PM | 0.76 | 1.05 | 20.78 | 13.75 | -0.12 | Z |
| 9/20/21 1:58 PM | 0.24 | 0.48 | 20.65 | 15.25 | 9.31 | |
| 9/20/21 1:59 PM | -0.03 | -0.55 | 20.78 | 0.11 | 9.87 | M |
| 9/20/21 2:00 PM | -0.02 | -0.51 | 20.78 | 0.02 | 9.92 | |
| 9/20/21 2:01 PM | -0.04 | -0.49 | 20.79 | 0.01 | 9.85 | |

GE Power
Greenleaf1 GT1
Base Load

Post 3

| | NOx ppmvc | CO ppmvd | O2% | CO2% | JHC ppmvw | |
|------------------------|------------------|-----------------|--------------|-------------|------------------|----------|
| 9/20/21 3:34 PM | 0.07 | -0.06 | -0.02 | 0 | -0.33 | |
| 9/20/21 3:35 PM | 0.06 | -0.05 | -0.03 | 0.02 | -0.25 | Z |
| 9/20/21 3:36 PM | -0.02 | -0.74 | 10.2 | 2.21 | -0.26 | |
| 9/20/21 3:37 PM | -0.09 | -0.83 | 10.28 | 9.81 | -0.21 | |
| 9/20/21 3:38 PM | -0.03 | -0.81 | 10.27 | 9.95 | -0.26 | M |
| 9/20/21 3:39 PM | 23.48 | 23.86 | -0.03 | 0.4 | -0.31 | |
| 9/20/21 3:40 PM | 24.33 | 23.9 | -0.04 | 0.01 | -0.3 | |
| 9/20/21 3:41 PM | 24.38 | 23.99 | -0.05 | 0.02 | -0.12 | |
| 9/20/21 3:42 PM | 0.19 | 0.33 | 20.81 | 16.85 | -0.06 | |
| 9/20/21 3:43 PM | -0.02 | -0.94 | 20.82 | 18.7 | -0.06 | Z |
| 9/20/21 3:44 PM | 0.07 | -0.53 | 20.76 | 10.49 | 9.92 | |
| 9/20/21 3:45 PM | -0.01 | -0.37 | 20.78 | 0.03 | 9.8 | M |
| 9/20/21 3:46 PM | -0.08 | -0.25 | 21.04 | 0.01 | 0.79 | |

Relative Accuracy Test Audit Analyzer Data

| | | | |
|-----------------|--------------|------------------------------------|-----------------------------|
| Client: | GE Power | Test Start Date: | Tuesday, September 21, 2021 |
| Facility: | Green Leaf 1 | Operator: | Tom Cassin |
| Source: | TM 2500 GT 2 | Reference Method Measurement Basis | Dry - Extractive |
| Test Location: | Stack | CEMS Analyzer Measurement Basis | - |
| Condition/Load: | Base | | |
| Project Number: | PROJ-011221 | | |

Analyzer Information

Reference Method Analyzers

| Pollutant Measured | Make | Model | Serial Number |
|--------------------|----------|-------|---------------|
| CO | Thermo | 48i | 1160990031 |
| NO _x | Thermo | 42i | 1160990029 |
| O ₂ | Teledyne | T803 | 88 |
| CO ₂ | Teledyne | T803 | 88 |

Method 25A Analyzer Data

| | | | |
|-----------------|-------------|------------------|-----------------------------|
| Client: | GE | Test Start Date: | Tuesday, September 21, 2021 |
| Facility: | Greenleaf 1 | Operator: | Tom Cassin |
| Test Location: | Stack GT2 | | |
| Condition/Load: | Base Load | | |
| Project Number: | PROJ-011221 | | |

Analyzer Information

Reference Method Analyzers

| Source | Make | Model | Serial Number |
|----------|------|-----------|---------------|
| Source 1 | JUM | FID 3-500 | 20013023-35 |



Initial Analyzer Calibration Error Check

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 2 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|------------------|------------|
| Test Start Date: | 9/21/2021 |
| Operator: | Tom Cassin |

Initial Linearity Calibration Data

| Pollutant Measured | Calibration Gas Level | Calibration Gas Cylinder Data | | | Absolute Difference | Analyzer Response | Calibration Error Percentage | Pass/Fail Status |
|--------------------|-----------------------|-------------------------------|---------------|---------------------------------|---------------------|-------------------|------------------------------|------------------|
| | | Expiration Date | Serial Number | Concentration (C _v) | | | | |
| CO | High | 2/7/2023 | CC192422 | 48.64 | 0.38 | 49.02 | 0.78 | Pass |
| | Mid | 2/1/2024 | EB0080203 | 23.82 | 0.15 | 23.97 | 0.31 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.00 | 0.00 | 0.00 | Pass |
| NO _x | High | 2/7/2023 | CC192422 | 46.48 | 0.00 | 46.48 | 0.00 | Pass |
| | Mid | 2/1/2024 | EB0080203 | 24.04 | 0.09 | 23.95 | 0.19 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.13 | -0.13 | 0.28 | Pass |
| O ₂ | High | 1/15/2026 | EB0088291 | 20.87 | 0.10 | 20.97 | 0.48 | Pass |
| | Mid | 5/10/2029 | CC100657 | 10.32 | 0.03 | 10.35 | 0.14 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.02 | -0.02 | 0.10 | Pass |
| CO ₂ | High | 1/15/2026 | EB0088291 | 19.50 | 0.01 | 19.49 | 0.05 | Pass |
| | Mid | 5/10/2029 | CC100657 | 10.01 | 0.03 | 10.04 | 0.15 | Pass |
| | Low | 1/10/2025 | CC95867 | 0.00 | 0.01 | 0.01 | 0.05 | Pass |

Method 25A Analyzer Data

| | | | |
|-----------------|-------------|---------------------------|------------|
| Client: | GE | Test Start Date: | 9/21/2021 |
| Facility: | Greenleaf 1 | Operator: | Tom Cassin |
| Test Location: | Stack GT2 | | |
| Condition/Load: | Base Load | Gas Used for Calibration: | Propane |
| Project Number: | PROJ-011221 | Gas Used for Zero: | Air |

RM Analyzer Linearity Calibration Data

| Sampling Location | Calibration Gas Cylinder Values | | | Calibration Gas Level | Range | Predicted Response | System Response | Calibration Error Percentage | Pass/Fail <±5% |
|-------------------|---------------------------------|------------|---------------|-----------------------|-------|--------------------|-----------------|------------------------------|----------------|
| | Cylinder ID | Exp Date | Concentration | | | | | | |
| Source 1 | CC145376 | 3/19/2026 | 16.92 | High | 20 | | 16.99 | 0.35 | Pass |
| | CC431837 | 10/20/2028 | 9.87 | Mid | | 9.88 | 9.91 | 0.29 | Pass |
| | CC287500 | 4/10/2029 | 5.98 | Low | | 5.95 | 6.00 | 0.86 | Pass |
| | EB0039484 | 4/5/2027 | 0.00 | Zero | | | -0.08 | -0.40 | Pass |

Predicted Response Calculations

GE Power
Greenleaf1 GT2
Base Load

Linearity

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|---------------------|--------------|--------------|--------------|--------------|--------------|----------|
| 9/21/21 5:49 | -0.15 | 0.21 | 21.18 | 0.01 | 1.29 | |
| 9/21/21 5:50 | -0.18 | 0.26 | 0.05 | 0.02 | -0.19 | |
| 9/21/21 5:51 | -0.13 | 0 | -0.02 | 0.01 | -0.18 | Z |
| 9/21/21 5:52 | -0.14 | -0.07 | -0.01 | 0.01 | -0.2 | |
| 9/21/21 5:53 | -0.11 | -1.12 | 20.96 | 14.6 | 0.1 | |
| 9/21/21 5:54 | -0.12 | -0.92 | 20.96 | 18.83 | 0.16 | |
| 9/21/21 5:55 | -0.11 | -0.96 | 20.97 | 19.49 | 0.11 | H |
| 9/21/21 5:56 | -0.11 | -1.02 | 20.98 | 19.46 | -0.06 | |
| 9/21/21 5:57 | -0.12 | -0.76 | 10.38 | 11.12 | -0.08 | |
| 9/21/21 5:58 | -0.13 | -0.77 | 10.35 | 10.04 | -0.04 | M |
| 9/21/21 5:59 | -0.09 | -0.77 | 10.37 | 10 | -0.16 | |
| 9/21/21 6:00 | 48.73 | 48.48 | -0.01 | 1.07 | -0.19 | |
| 9/21/21 6:01 | 46.48 | 49.02 | -0.01 | 0 | -0.13 | H |
| 9/21/21 6:02 | 46.62 | 49 | 0 | -0.01 | -0.15 | |
| 9/21/21 6:03 | 25.21 | 26.45 | -0.01 | 0 | -0.2 | |
| 9/21/21 6:04 | 23.93 | 23.94 | -0.03 | 0.02 | -0.2 | |
| 9/21/21 6:05 | 23.95 | 23.97 | -0.03 | 0 | -0.14 | M |
| 9/21/21 6:06 | 1.22 | 1.44 | -0.01 | 0.01 | -0.19 | |
| 9/21/21 6:19 | -0.09 | -1 | 21.01 | 17.86 | 0.01 | |
| 9/21/21 6:20 | -0.06 | -0.9 | 21.01 | 18.87 | -0.08 | Z |
| 9/21/21 6:21 | -0.08 | -0.9 | 21.03 | 18.93 | 0.07 | |
| 9/21/21 6:22 | 0.01 | -0.28 | 21.32 | 7.38 | 16.99 | H |
| 9/21/21 6:23 | -0.1 | -0.11 | 21.34 | 0 | 17.09 | |
| 9/21/21 6:24 | -0.06 | -0.19 | 21 | 0 | 9.95 | |
| 9/21/21 6:25 | -0.06 | -0.32 | 20.99 | 0.01 | 9.91 | M |
| 9/21/21 6:26 | -0.06 | -0.33 | 21.47 | 0.02 | 6.02 | |
| 9/21/21 6:27 | -0.11 | -0.23 | 21.49 | 0.01 | 6 | L |
| 9/21/21 6:28 | -0.07 | -0.12 | 21.22 | 0.01 | -0.02 | |

Measurement System Response Time Test

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 2 |
| Test Location: | Stack |
| Project Number: | PROJ-011221 |

| | |
|--------------------------|------------|
| Response Time Test Date: | 9/21/21 |
| Operator: | Tom Cassin |

Upscale Response Time Test

| Pollutant Measured | Calibration Gas Used (Mid or High) | Calibration Gas Concentration | Stable Response | Start Time | Time to Target Value | Upscale Target Value | Response Time |
|--------------------|------------------------------------|-------------------------------|-----------------|------------|----------------------|----------------------|---------------|
| CO | Mid | 23.82 | 23.75 | 6:13:00 | 6:14:00 | 22.56 | 0:01:00 |
| NO _x | Mid | 24.04 | 23.78 | 6:13:00 | 6:14:00 | 22.59 | 0:01:00 |
| O ₂ | Mid | 10.32 | 10.34 | 6:09:00 | 6:10:00 | 9.82 | 0:01:00 |

Downscale Response Time Test

| Pollutant Measured | Calibration Gas Used (Mid or High) | Calibration Gas Concentration | Start Time | Time to Target Value | Downscale Target Value ¹ | Response Time |
|--------------------|------------------------------------|-------------------------------|------------|----------------------|-------------------------------------|---------------|
| CO | Mid | 23.82 | 6:16:00 | 6:17:00 | 1.19 | 0:01:00 |
| NO _x | Mid | 24.04 | 6:16:00 | 6:17:00 | 1.20 | 0:01:00 |
| O ₂ | Mid | 10.32 | 6:11:00 | 6:12:00 | 0.52 | 0:01:00 |

¹ The calculated downscale is 5% of the upscale. 0.5ppm may also be used if less restrictive.

Measurement System Response Time Test

| | |
|-----------------|-------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack GT2 |
| Project Number: | PROJ-011221 |

| | |
|--------------------------|------------|
| Response Time Test Date: | 9/21/2021 |
| Operator: | Tom Cassin |

Upscale Response Time Test

| Pollutant Measured | Calibraton Gas Used | Calibration Gas Concentration | Target Response | Start Time | Time to Target Value | Upscale Target Value | Response Time |
|--------------------|---------------------|-------------------------------|-----------------|------------|----------------------|----------------------|---------------|
| Source 1 | Mid | 9.873 | 9.91 | 6:30:00 | 6:31:00 | 9.41 | 0:01:00 |

Downscale Response Time Test

| Pollutant Measured | Calibraton Gas Used | Calibration Gas Concentration | Start Time | Time to Target Value | Downscale Target Value ¹ | Response Time |
|--------------------|---------------------|-------------------------------|------------|----------------------|-------------------------------------|---------------|
| Source 1 | Mid | 9.873 | 6:32:00 | 6:33:00 | 0.49 | 0:01:00 |

GE Power
Greenleaf1 GT2
Base Load

Response Time

| | NOx ppmvd | CO ppmvd | O2% | UHC ppmvw |
|---------------------|--------------|--------------|--------------|--------------|
| 9/21/21 6:07 | 0.01 | 0.02 | -0.01 | -0.19 |
| 9/21/21 6:08 | -0.05 | -0.04 | -0.03 | -0.26 |
| 9/21/21 6:09 | -0.09 | 0.02 | -0.02 | -0.01 |
| 9/21/21 6:10 | -0.11 | -0.77 | 10.34 | -0.05 |
| 9/21/21 6:11 | -0.1 | -0.79 | 10.38 | -0.18 |
| 9/21/21 6:12 | -0.06 | -0.12 | 0 | -0.26 |
| 9/21/21 6:13 | -0.12 | -0.08 | -0.02 | -0.23 |
| 9/21/21 6:14 | 23.78 | 23.75 | -0.01 | -0.23 |
| 9/21/21 6:15 | 23.99 | 23.95 | -0.01 | -0.24 |
| 9/21/21 6:16 | 24 | 23.94 | -0.03 | -0.32 |
| 9/21/21 6:17 | -0.02 | 0.02 | -0.02 | -0.24 |
| 9/21/21 6:18 | -0.11 | -0.03 | 14.68 | 0.17 |
| 9/21/21 6:28 | -0.07 | -0.12 | 21.22 | -0.02 |
| 9/21/21 6:29 | -0.1 | -1.02 | 21.04 | -0.04 |
| 9/21/21 6:30 | -0.13 | -0.97 | 21.05 | -0.05 |
| 9/21/21 6:31 | -0.12 | -0.34 | 20.99 | 9.91 |
| 9/21/21 6:32 | -0.11 | -0.31 | 21 | 9.87 |
| 9/21/21 6:33 | -0.09 | -0.63 | 21.05 | -0.04 |

Measurement Ranges

| Day 1 | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) |
|---|-------------|--------------------------|--------------------------|---------------------------|----------------------------|
| Measurement Ranges Based on Calibration Gas | 48.64 | 46.48 | - | 20.87 | 19.50 |

Low-Level or Zero Calibration Gas System Responses

| Day 1 = A Day 2 = B | Run Number | Test Date | CO (ppm) | | NO _x (ppm) | | SO ₂ (ppm) | | O ₂ (% vol) | | CO ₂ (% vol) | |
|------------------------|------------|-----------|-------------|----------|--------------------------|----------|--------------------------|----------|---------------------------|----------|----------------------------|----------|
| | | | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal |
| A | 1 | 09/21/21 | 0.02 | -0.07 | -0.09 | 0.15 | - | - | -0.02 | -0.02 | 0.02 | 0.01 |
| A | 2 | 09/21/21 | -0.07 | -0.10 | 0.15 | 0.07 | - | - | -0.02 | -0.02 | 0.01 | 0.01 |
| A | 3 | 09/21/21 | -0.10 | -0.03 | 0.07 | 0.13 | - | - | -0.02 | -0.02 | 0.01 | 0.01 |

| Day 1 | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) |
|-----------------|-------------|--------------------------|--------------------------|---------------------------|----------------------------|
| High or Mid | Mid | Mid | - | Mid | Mid |
| C _{MA} | 23.82 | 24.04 | - | 10.32 | 10.01 |

High-Level Calibration Gas System Responses

| Day 1 = A Day 2 = B | Run Number | Test Date | CO (ppm) | | NO _x (ppm) | | SO ₂ (ppm) | | O ₂ (% vol) | | CO ₂ (% vol) | |
|------------------------|------------|-----------|-------------|----------|--------------------------|----------|--------------------------|----------|---------------------------|----------|----------------------------|----------|
| | | | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal | Pre Cal | Post Cal |
| A | 1 | 09/21/21 | 23.94 | 23.77 | 24.00 | 24.02 | - | - | 10.34 | 10.34 | 9.93 | 9.94 |
| A | 2 | 09/21/21 | 23.77 | 23.50 | 24.02 | 23.85 | - | - | 10.34 | 10.29 | 9.94 | 9.94 |
| A | 3 | 09/21/21 | 23.50 | 23.73 | 23.85 | 23.94 | - | - | 10.29 | 10.28 | 9.94 | 9.94 |

Calibration Error and Drift Summary

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 2 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|------------------|-----------------------------|
| Test Start Date: | Tuesday, September 21, 2021 |
| Operator: | Tom Cassin |

Carbon Monoxide (CO) Bias and Drift Data

| Run Number | Cal Gas Level | | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|------------------------------|----------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| | Low & Upscale | Span Gas Concentration (ppm) | | | Direct Response (ppm) | System Response (ppm) | System Bias % of Span | System Response (ppm) | System Bias % of Span | % of Span (D) |
| 1 | Low | 48.64 | 48.64 | 0.00 | 0.02 | 0.0 | -0.07 | -0.1 | 0.2 | |
| | Upscale | 48.64 | | | 23.97 | 23.94 | -0.1 | 23.77 | -0.4 | 0.3 |
| 2 | Low | 48.64 | 48.64 | 0.00 | -0.07 | -0.1 | -0.10 | -0.2 | 0.1 | |
| | Upscale | 48.64 | | | 23.97 | 23.77 | -0.4 | 23.50 | -1.0 | 0.6 |
| 3 | Low | 48.64 | 48.64 | 0.00 | -0.10 | -0.2 | -0.03 | -0.1 | 0.1 | |
| | Upscale | 48.64 | | | 23.97 | 23.50 | -1.0 | 23.73 | -0.5 | 0.5 |

Nitrogen Oxides (NO_x) Bias and Drift Data

| Run Number | Cal Gas Level | | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|------------------------------|----------------|------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| | Low & Upscale | Span Gas Concentration (ppm) | | | Direct Response (ppm) | System Response (ppm) | System Bias % of Span | System Response (ppm) | System Bias % of Span | % of Span (D) |
| 1 | Low | 46.48 | 46.48 | -0.13 | -0.09 | 0.1 | 0.15 | 0.6 | 0.5 | |
| | Upscale | 46.48 | | | 23.95 | 24.00 | 0.1 | 24.02 | 0.2 | 0.0 |
| 2 | Low | 46.48 | 46.48 | -0.13 | 0.15 | 0.6 | 0.07 | 0.4 | 0.2 | |
| | Upscale | 46.48 | | | 23.95 | 24.02 | 0.2 | 23.85 | -0.2 | 0.4 |
| 3 | Low | 46.48 | 46.48 | -0.13 | 0.07 | 0.4 | 0.13 | 0.6 | 0.1 | |
| | Upscale | 46.48 | | | 23.95 | 23.85 | -0.2 | 23.94 | 0.0 | 0.2 |

Oxygen (O₂) Bias and Drift Data

| Run Number | Cal Gas Level | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|----------------|------------------|-----------------------|-----------------------|------------------------|-----------------------|------------------|--|
| | | | | System Response (ppm) | System Bias % of Span | System Response (%vol) | System Bias % of Span | % of Span (D) | |
| 1 | Low | 20.87 | -0.02 | -0.02 | 0.0 | -0.02 | 0.0 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.34 | 0.0 | 10.34 | 0.0 | 0.0 | |
| 2 | Low | 20.87 | -0.02 | -0.02 | 0.0 | -0.02 | 0.0 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.34 | 0.0 | 10.29 | -0.3 | 0.2 | |
| 3 | Low | 20.87 | -0.02 | -0.02 | 0.0 | -0.02 | 0.0 | 0.0 | |
| | Upscale | 20.87 | 10.35 | 10.29 | -0.3 | 10.28 | -0.3 | 0.0 | |

Carbon Dioxide (CO₂) Bias and Drift Data

| Run Number | Cal Gas Level | C _v | C _{Dir} | System Initial Values | | System Final Values | | Drift Assessment | |
|------------|---------------|----------------|------------------|-----------------------|-----------------------|------------------------|-----------------------|------------------|--|
| | | | | System Response (ppm) | System Bias % of Span | System Response (%vol) | System Bias % of Span | % of Span (D) | |
| 1 | Low | 19.50 | 0.01 | 0.02 | 0.1 | 0.01 | 0.0 | 0.1 | |
| | Upscale | 19.50 | 10.04 | 9.93 | -0.6 | 9.94 | -0.5 | 0.1 | |
| 2 | Low | 19.50 | 0.01 | 0.01 | 0.0 | 0.01 | 0.0 | 0.0 | |
| | Upscale | 19.50 | 10.04 | 9.94 | -0.5 | 9.94 | -0.5 | 0.0 | |
| 3 | Low | 19.50 | 0.01 | 0.01 | 0.0 | 0.01 | 0.0 | 0.0 | |
| | Upscale | 19.50 | 10.04 | 9.94 | -0.5 | 9.94 | -0.5 | 0.0 | |

Method 25A Calibration Data

| | |
|-----------------|-------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack GT2 |
| Project Number: | PROJ-011221 |
| Test Date: | 9/21/2021 |
| Operator: | Tom Cassin |

Upscale Calibration Gas Used

| | |
|---------------------------|---------|
| Source 1 | |
| Calibration Gas Type | Propane |
| Upscale Gas Used | Mid |
| Upscale Gas Concentration | 9.87 |

Upscale System Response

| | | |
|-----------------|----------|----------|
| Test Run Number | Source 1 | |
| | Pre Cal | Post Cal |
| 1 | 9.91 | 9.91 |
| 2 | 9.91 | 9.90 |
| 3 | 9.91 | 9.97 |

Zero System Response

| | | |
|-----------------|----------|----------|
| Test Run Number | Source 1 | |
| | Pre Cal | Post Cal |
| 1 | -0.05 | -0.01 |
| 2 | -0.05 | -0.07 |
| 3 | -0.05 | -0.07 |

Method 25A Drift Calculations

| Source 1 | | | | | | |
|----------|---------------------------------|-----------------------|------------------|----------------|------------|-------------------------|
| Run | Span Gas Concentration (ppm) | Calibration Gas Level | System Response | | Drift % | Acceptability +/- 3% |
| | | | Initial (ppm) | Final (ppm) | | |
| 1 | 9.87 | Upscale | 9.91 | 9.91 | 0.00 | Pass |
| | | Zero | -0.05 | -0.01 | 0.20 | Pass |
| 2 | 9.87 | Upscale | 9.91 | 9.90 | -0.05 | Pass |
| | | Zero | -0.05 | -0.07 | -0.10 | Pass |
| 3 | 9.87 | Upscale | 9.91 | 9.97 | 0.30 | Pass |
| | | Zero | -0.05 | -0.07 | -0.10 | Pass |

GE Power
Greenleaf1 GT2
Base Load

Pre 1

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|---------------------|--------------|--------------|--------------|-------------|--------------|----------|
| 9/21/21 6:07 | 0.01 | 0.02 | -0.01 | 0.01 | -0.19 | |
| 9/21/21 6:08 | -0.05 | -0.04 | -0.03 | 0 | -0.26 | |
| 9/21/21 6:09 | -0.09 | 0.02 | -0.02 | 0.02 | -0.01 | Z |
| 9/21/21 6:10 | -0.11 | -0.77 | 10.34 | 9.25 | -0.05 | M |
| 9/21/21 6:11 | -0.1 | -0.79 | 10.38 | 9.93 | -0.18 | M |
| 9/21/21 6:12 | -0.06 | -0.12 | 0 | 1.68 | -0.26 | |
| 9/21/21 6:13 | -0.12 | -0.08 | -0.02 | 0.01 | -0.23 | |
| 9/21/21 6:14 | 23.78 | 23.75 | -0.01 | 0 | -0.23 | |
| 9/21/21 6:15 | 23.99 | 23.95 | -0.01 | -0.01 | -0.24 | |
| 9/21/21 6:16 | 24 | 23.94 | -0.03 | 0.01 | -0.32 | M |
| 9/21/21 6:17 | -0.02 | 0.02 | -0.02 | 0.02 | -0.24 | |
| 9/21/21 6:28 | -0.07 | -0.12 | 21.22 | 0.01 | -0.02 | |
| 9/21/21 6:29 | -0.1 | -1.02 | 21.04 | 17.83 | -0.04 | |
| 9/21/21 6:30 | -0.13 | -0.97 | 21.05 | 18.92 | -0.05 | Z |
| 9/21/21 6:31 | -0.12 | -0.34 | 20.99 | 4.65 | 9.91 | M |

GE Power
 Greenleaf1 GT2
 Base Load

Post1/Pre2

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|------------------------|--------------|--------------|--------------|-------------|--------------|----------|
| 9/21/21 9:40 AM | 6.36 | 0.91 | 0.05 | 1.92 | -0.57 | |
| 9/21/21 9:41 AM | 0.26 | -0.05 | -0.02 | 0.02 | -0.56 | |
| 9/21/21 9:42 AM | 0.15 | -0.07 | -0.02 | 0.01 | -0.46 | Z |
| 9/21/21 9:43 AM | 0.07 | -0.84 | 10.31 | 8.13 | -0.51 | |
| 9/21/21 9:44 AM | 0.06 | -0.85 | 10.32 | 9.9 | -0.47 | |
| 9/21/21 9:45 AM | 0.01 | -0.89 | 10.34 | 9.94 | -0.49 | M |
| 9/21/21 9:46 AM | 4.07 | 6.39 | 18.87 | 5.6 | 0.61 | |
| 9/21/21 9:47 AM | 6.61 | 3.99 | 18.97 | 1.25 | 0.4 | |
| 9/21/21 9:48 AM | 15.4 | 17.9 | 3.32 | 1 | -0.65 | |
| 9/21/21 9:49 AM | 23.94 | 23.66 | -0.01 | 0.08 | -0.62 | |
| 9/21/21 9:50 AM | 24.02 | 23.77 | 5.82 | 0 | -0.3 | M |
| 9/21/21 9:51 AM | 0.16 | -0.55 | 20.9 | 17.64 | -0.01 | Z |
| 9/21/21 9:52 AM | 1.75 | 1.17 | 20.82 | 8.47 | 9.91 | M |
| 9/21/21 9:53 AM | 3.07 | 2.84 | 19.06 | 0.24 | 1.93 | |

GE Power
 Greenleaf1 GT2
 Base Load

Post2/Pre3

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|-------------------------|--------------|-------------|--------------|-------------|--------------|----------|
| 9/21/21 11:17 AM | 0.18 | -0.1 | -0.02 | 0.01 | -0.41 | |
| 9/21/21 11:18 AM | 0.07 | -0.1 | -0.02 | 0.01 | -0.43 | Z |
| 9/21/21 11:19 AM | 0.01 | -0.91 | 10.29 | 8.81 | -0.43 | |
| 9/21/21 11:20 AM | -0.02 | -0.88 | 10.29 | 9.93 | -0.41 | |
| 9/21/21 11:21 AM | -0.07 | -0.95 | 10.29 | 9.94 | -0.46 | M |
| 9/21/21 11:22 AM | 23.74 | 23.5 | -0.03 | 0.62 | -0.49 | |
| 9/21/21 11:23 AM | 23.87 | 23.63 | -0.01 | 0.01 | -0.51 | |
| 9/21/21 11:24 AM | 23.85 | 23.5 | 10.52 | 0.01 | -0.23 | M |
| 9/21/21 11:25 AM | 0.14 | -0.67 | 20.87 | 17.71 | -0.07 | Z |
| 9/21/21 11:26 AM | 9.88 | 4.64 | 20.67 | 13.5 | 9.79 | |
| 9/21/21 11:27 AM | -0.02 | -0.41 | 20.81 | 0.04 | 9.9 | M |
| 9/21/21 11:28 AM | 13.79 | 10.64 | 15.1 | 0.82 | 0.72 | |

GE Power
Greenleaf1 GT2
Base Load

Post 3

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw | |
|------------------------|--------------|--------------|--------------|-------------|--------------|----------|
| 9/21/21 1:00 PM | 0.37 | -0.09 | -0.01 | 0.12 | -0.31 | |
| 9/21/21 1:01 PM | 0.13 | -0.03 | -0.02 | 0.01 | -0.31 | Z |
| 9/21/21 1:02 PM | 0 | -0.08 | -0.01 | 0.01 | -0.23 | |
| 9/21/21 1:03 PM | -0.02 | -0.87 | 10.27 | 8.77 | -0.22 | |
| 9/21/21 1:04 PM | -0.04 | -0.83 | 10.28 | 9.94 | -0.32 | M |
| 9/21/21 1:05 PM | -0.07 | -0.82 | 10.27 | 9.94 | -0.25 | |
| 9/21/21 1:06 PM | 0.02 | -0.82 | 10.29 | 10.01 | -0.3 | |
| 9/21/21 1:07 PM | 4.6 | 9.13 | 0.17 | 9.82 | -0.35 | |
| 9/21/21 1:08 PM | 23.5 | 23.68 | -0.03 | 0.02 | -0.31 | |
| 9/21/21 1:09 PM | 23.93 | 23.68 | -0.05 | 0 | -0.29 | |
| 9/21/21 1:10 PM | 23.92 | 23.84 | -0.03 | 0 | -0.32 | |
| 9/21/21 1:11 PM | 23.94 | 23.73 | 11.21 | 0.02 | -0.19 | M |
| 9/21/21 1:12 PM | 0.1 | -0.58 | 20.8 | 17.77 | -0.14 | |
| 9/21/21 1:13 PM | -0.07 | -0.91 | 20.82 | 18.82 | -0.07 | Z |
| 9/21/21 1:14 PM | -0.09 | -0.28 | 20.76 | 4.46 | 9.97 | M |

NO₂ to NO Conversion Efficiency Test

| | | | | |
|-----------------|--------------|--|--|------------|
| Client: | GE Power | | RATA Test Date: | 9/21/2021 |
| Facility: | Green Leaf 1 | | Operator: | Tom Cassin |
| Source: | TM 2500 GT 2 | | | |
| Test Location: | Stack | | NO ₂ to NO Conversion Efficiency Test Date: | 9/21/2021 |
| Project Number: | PROJ-011221 | | | |

Analyzer Information

| | |
|---------------------------------|------------|
| NO _x Analyzer Make: | Thermo |
| NO _x Analyzer Model: | 42i |
| NO _x Analyzer S/N: | 1160990029 |
| NO _x Converter Temp: | 625 |

Direct Calibration Mode Utilizing NO₂ Calibration Gas

| | |
|---|-----------|
| NO ₂ Cal Gas Cylinder ID: | CC507398 |
| NO ₂ Cal Gas Cylinder Expiration Date : | 2/19/2022 |
| NO ₂ Cal Gas Cylinder Certified Concentration: | 62.64 |
| Analyzer Response to NO ₂ Calibration Gas: | 59.19 |
| Calculated Converter Efficiency (EFF _{NO2}): | 94.49% |
| Status of Converter Efficiency (>90%): | PASS |

**GE Power
Greenleaf1 GT2
Base Load**

**NOx Conv
Check**

| | NOx ppmvd |
|------------------------|------------------|
| 9/21/21 1:16 PM | -0.09 |
| 9/21/21 1:17 PM | 26.08 |
| 9/21/21 1:18 PM | 58.15 |
| 9/21/21 1:19 PM | 58.52 |
| 9/21/21 1:20 PM | 58.62 |
| 9/21/21 1:21 PM | 58.79 |
| 9/21/21 1:22 PM | 58.92 |
| 9/21/21 1:23 PM | 59.19 |

Appendix A.3 Span Gas Certificates

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CEM-CAL ZERO

| | | | |
|--------------------|----------------------------|--------------------|-----------------|
| Part Number: | NI CZ15A | Reference Number: | 136-402150787-1 |
| Cylinder Analyzed: | EB0039474 | Cylinder Volume: | 142.0 CF |
| Laboratory: | 192 - Elk Grove (SAP) - IL | Cylinder Pressure: | 2000 PSIG |
| Analysis Date: | Jun 24, 2021 | Valve Outlet: | 580 |
| Lot Number: | 136-402150787-1 | | |

Expiration Date: Jun 24, 2029

ANALYTICAL RESULTS

| Component | Requested Purity | Certified Concentration |
|-----------------|------------------|-------------------------|
| NITROGEN | 99.9995 % | 99.9995 % |
| CARBON DIOXIDE | < 1.0 PPM | 0.49 PPM |
| NOx | < 0.1 PPM | < 0.1 PPM |
| SO2 | < 0.1 PPM | < 0.1 PPM |
| THC | < 0.1 PPM | 0.08 PPM |
| CARBON MONOXIDE | < 0.5 PPM | 0.49 PPM |

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

Cylinders in Batch:

ALM-049054*, CC129202, CC164767, CC222236, CC234570@, CC256937, CC276927, CC357508, CC440071*, CC49785, CC95867, EB0021600, EB0031368, EB0039359, EB0039474, EB0046038, EB0088084, SG9120165BAL, SG9199908, XC028948B

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

Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E03NI80E15A0138 | Reference Number: 54-402107992-1 |
| Cylinder Number: CC100657 | Cylinder Volume: 150.9 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2015 PSIG |
| PGVP Number: B12021 | Valve Outlet: 590 |
| Gas Code: CO2,O2,BALN | Certification Date: May 10, 2021 |

Expiration Date: May 10, 2029

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

| ANALYTICAL RESULTS | | | | | |
|---------------------------|-------------------------|----------------------|-----------------|----------------------------|-------------|
| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
| CARBON DIOXIDE | 10.00 % | 10.01 % | G1 | +/- 0.6% NIST Traceable | 05/10/2021 |
| OXYGEN | 10.00 % | 10.32 % | G1 | +/- 0.3% NIST Traceable | 05/10/2021 |
| NITROGEN | Balance | | | | |

| CALIBRATION STANDARDS | | | | | |
|------------------------------|----------|-------------|---------------------------------|-------------|-----------------|
| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
| NTRM | 08010601 | K002531 | 13.94 % CARBON DIOXIDE/NITROGEN | +/- 0.6% | Jan 30, 2024 |

| ANALYTICAL EQUIPMENT | | |
|-------------------------------|----------------------|-----------------------------|
| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
| CO2-1 HORIBA VIA-510 V1E3H7P5 | NDIR | Apr 29, 2021 |
| O2-1 HORIBA MPA-510 3VUYL9NR | Paramagnetic | Apr 29, 2021 |

Triad Data Available Upon Request



Signature on file
Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E03NI60E15A0286 | Reference Number: 54-401095141-1 |
| Cylinder Number: EB0088291 | Cylinder Volume: 159.6 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2015 PSIG |
| PGVP Number: B12018 | Valve Outlet: 590 |
| Gas Code: CO2,O2,BALN | Certification Date: Jan 15, 2018 |

Expiration Date: Jan 15, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

| ANALYTICAL RESULTS | | | | | |
|--------------------|-------------------------|----------------------|-----------------|----------------------------|-------------|
| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
| CARBON DIOXIDE | 20.00 % | 19.50 % | G1 | +/- 0.7% NIST Traceable | 01/15/2018 |
| OXYGEN | 20.00 % | 20.87 % | G1 | +/- 0.7% NIST Traceable | 01/15/2018 |
| NITROGEN | Balance | | | | |

| CALIBRATION STANDARDS | | | | | |
|-----------------------|----------|-------------|---------------------------------|-------------|-----------------|
| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
| NTRM | 08061324 | CC255485 | 20.09 % CARBON DIOXIDE/NITROGEN | +/- 0.6% | Jun 28, 2018 |
| NTRM | 09061418 | CC273593 | 22.53 % OXYGEN/NITROGEN | +/- 0.4% | Mar 08, 2019 |

| ANALYTICAL EQUIPMENT | | |
|-------------------------------|----------------------|-----------------------------|
| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
| CO2-1 HORIBA VIA-510 V1E3H7P5 | NDIR | Jan 08, 2018 |
| O2-1 HORIBA MPA-510 3VUYL9NR | Paramagnetic | Jan 08, 2018 |

Triad Data Available Upon Request



Signature on file
Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | | | |
|------------------|--------------------------|---------------------|----------------|
| Part Number: | E03NI99E15A04D9 | Reference Number: | 54-402013394-1 |
| Cylinder Number: | EB0080203 | Cylinder Volume: | 144.3 CF |
| Laboratory: | 124 - Chicago (SAP) - IL | Cylinder Pressure: | 2015 PSIG |
| PGVP Number: | B12021 | Valve Outlet: | 660 |
| Gas Code: | CO,NO,NOX,BALN | Certification Date: | Feb 01, 2021 |

Expiration Date: Feb 01, 2024

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

| ANALYTICAL RESULTS | | | | | |
|--------------------|-------------------------|----------------------|-----------------|----------------------------|------------------------|
| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
| NOX | 24.00 PPM | 24.04 PPM | G1 | +/- 1.3% NIST Traceable | 01/25/2021, 02/01/2021 |
| CARBON MONOXIDE | 24.00 PPM | 23.82 PPM | G1 | +/- 0.4% NIST Traceable | 01/25/2021 |
| NITRIC OXIDE | 24.00 PPM | 24.04 PPM | G1 | +/- 1.1% NIST Traceable | 01/25/2021, 02/01/2021 |
| NITROGEN | Balance | | | | |

| CALIBRATION STANDARDS | | | | | |
|-----------------------|-----------|---------------|------------------------------------|-------------|-----------------|
| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
| NTRM | 150102 | KAL004704 | 24.35 PPM CARBON MONOXIDE/NITROGEN | +/- 0.3% | Sep 04, 2021 |
| NTRM | 120104-02 | KAL004843 | 19.94 PPM NITRIC OXIDE/NITROGEN | +/- 1.1% | Feb 13, 2024 |
| NTRM | 120104-02 | KAL004843 NOX | 19.94 PPM NOx/NITROGEN | +/- 1.1% | Feb 13, 2024 |

| ANALYTICAL EQUIPMENT | | |
|---|----------------------|-----------------------------|
| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
| (CO-4) Thermo 48i-TLE 1406960657 | NDIR | Jan 07, 2021 |
| EC-1 Eco Physics nCLD 844S 844n0131 NO | Chemilluminescence | Jan 07, 2021 |
| EC-1 Eco Physics nCLD 844S 844n0131 NOX | Chemilluminescence | Jan 07, 2021 |

Triad Data Available Upon Request



Signature on file
Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | | | |
|------------------|--------------------------|---------------------|-----------------|
| Part Number: | E03NI99E15A00H0 | Reference Number: | 54-401708715-1A |
| Cylinder Number: | CC192422 | Cylinder Volume: | 144.0 CF |
| Laboratory: | 124 - Chicago (SAP) - IL | Cylinder Pressure: | 2016 PSIG |
| PGVP Number: | B12020 | Valve Outlet: | 660 |
| Gas Code: | CO,NO,NOX,BALN | Certification Date: | Feb 07, 2020 |

Expiration Date: Feb 07, 2023

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
|-----------------|-------------------------|----------------------|-----------------|----------------------------|------------------------|
| NOX | 48.00 PPM | 46.48 PPM | G1 | +/- 1.0% NIST Traceable | 01/31/2020, 02/07/2020 |
| CARBON MONOXIDE | 48.00 PPM | 48.64 PPM | G1 | +/- 0.6% NIST Traceable | 01/31/2020 |
| NITRIC OXIDE | 48.00 PPM | 46.48 PPM | G1 | +/- 1.0% NIST Traceable | 01/31/2020, 02/07/2020 |
| NITROGEN | Balance | | | | |

CALIBRATION STANDARDS

| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
|------|--------------|-------------|-------------------------------------|-------------|-----------------|
| NTRM | 14060728 | CC434350 | 49.88 PPM CARBON MONOXIDE/NITROGEN | +/- 0.6% | Feb 22, 2020 |
| PRM | 12386 | D685025 | 9.91 PPM NITROGEN DIOXIDE/AIR | +/- 2.0% | Feb 20, 2020 |
| NTRM | 16060650 | CC442691 | 50.42 PPM NITRIC OXIDE/NITROGEN | +/- 0.8% | Jun 27, 2020 |
| GMIS | 401203436102 | CC502639 | 4.801 PPM NITROGEN DIOXIDE/NITROGEN | +/- 2.1% | May 02, 2022 |
| GMIS | 7302017104 | CC506604 | 4.426 PPM NITROGEN DIOXIDE/NITROGEN | +/- 2.1% | Jul 03, 2022 |

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

ANALYTICAL EQUIPMENT

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|-----------------------|----------------------|-----------------------------|
| | | |

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E02NI99E15W0076 | Reference Number: 54-401419351-1 |
| Cylinder Number: CC507398 | Cylinder Volume: 144.0 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2016 PSIG |
| PGVP Number: B12019 | Valve Outlet: 660 |
| Gas Code: NO2,BALN | Certification Date: Feb 19, 2019 |

Expiration Date: Feb 19, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

| ANALYTICAL RESULTS | | | | | |
|--------------------|-------------------------|----------------------|-----------------|----------------------------|------------------------|
| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
| NITROGEN DIOXIDE | 60.00 PPM | 62.64 PPM | G1 | +/- 2.0% NIST Traceable | 02/12/2019, 02/19/2019 |
| NITROGEN | Balance | | | | |

| CALIBRATION STANDARDS | | | | | |
|-----------------------|------------|-------------|-------------------------------------|-------------|-----------------|
| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
| GMIS | 7272017112 | CC511382 | 99.42 PPM NITROGEN DIOXIDE/NITROGEN | +/- 1.1% | Sep 03, 2021 |
| PRM | 12378 | D562913 | 100.1 PPM NITROGEN DIOXIDE/AIR | +/- 1.0% | Sep 04, 2018 |

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

| ANALYTICAL EQUIPMENT | | |
|------------------------|----------------------|-----------------------------|
| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
| MKS FTIR NO2 017707558 | FTIR | Feb 05, 2019 |

Triad Data Available Upon Request

PERMANENT NOTES:OXYGEN ADDED TO MAINTAIN STABILITY



Signature on file

Approved for Release

CERTIFICATE OF BATCH ANALYSIS

Grade of Product: CEM-CAL ZERO

| | | | |
|--------------------|----------------------------|--------------------|-----------------|
| Part Number: | AI CZ15A | Reference Number: | 136-401467808-1 |
| Cylinder Analyzed: | CC303413 | Cylinder Volume: | 146.0 CF |
| Laboratory: | 192 - Elk Grove (SAP) - IL | Cylinder Pressure: | 2000 PSIG |
| Analysis Date: | Apr 05, 2019 | Valve Outlet: | 590 |
| Lot Number: | 136-401467808-1 | | |

Expiration Date: Apr 05, 2027

ANALYTICAL RESULTS

| Component | Requested Purity | Certified Concentration |
|-----------------|------------------|-------------------------|
| AIR | | |
| Carbon Dioxide | < 1.0 PPM | <LDL 0.16 PPM |
| NOx | < 0.1 PPM | < 0.1 PPM |
| Sulfur Dioxide | < 0.1 PPM | < 0.1 PPM |
| THC | < 0.1 PPM | 0.06 PPM |
| Percent Oxygen | 20-21 % | 20.50 % |
| Carbon Monoxide | < 0.5 PPM | <LDL 0.16 PPM |

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

Cylinders in Batch:

CC148938, CC176793, CC17790, CC179114, CC210591, CC23123, CC275986, CC303413, CC31207, CC323590, CC410714, CC455719, EB0004600, EB0031318, EB0039484, EB0039602, SG9163891, XC007703B

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

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CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E02AI99E15A1475 | Reference Number: 54-402079097-1 |
| Cylinder Number: CC287500 | Cylinder Volume: 146.2 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2015 PSIG |
| PGVP Number: B12021 | Valve Outlet: 590 |
| Gas Code: PPN,BALA | Certification Date: Apr 10, 2021 |

Expiration Date: Apr 10, 2029

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
|-----------|-------------------------|----------------------|-----------------|----------------------------|-------------|
| PROPANE | 6.000 PPM | 5.975 PPM | G1 | +/- 0.7% NIST Traceable | 04/10/2021 |
| AIR | Balance | | | | |

CALIBRATION STANDARDS

| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
|------|----------|-------------|----------------------|-------------|-----------------|
| NTRM | 10010119 | K023771 | 9.60 PPM PROPANE/AIR | +/- 0.6% | Jan 19, 2022 |

ANALYTICAL EQUIPMENT

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|-------------------------|----------------------|-----------------------------|
| Nicolet 6700 AHR0801332 | FTIR | Mar 27, 2021 |

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E02AI99E15A1734 | Reference Number: 54-401938207-1 |
| Cylinder Number: CC431837 | Cylinder Volume: 146.2 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2015 PSIG |
| PGVP Number: B12020 | Valve Outlet: 590 |
| Gas Code: PPN,BALA | Certification Date: Oct 20, 2020 |

Expiration Date: Oct 20, 2028

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
|----------------|-------------------------|----------------------|-----------------|----------------------------|-------------|
| PROPANE AIR | 10.00 PPM Balance | 9.873 PPM | G1 | +/- 0.8% NIST Traceable | 10/20/2020 |

CALIBRATION STANDARDS

| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
|------|----------|-------------|-----------------------|-------------|-----------------|
| NTRM | 11061013 | CC322931 | 3.431 PPM PROPANE/AIR | +/- 0.6% | Jul 28, 2023 |

ANALYTICAL EQUIPMENT

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|-------------------------|----------------------|-----------------------------|
| Nicolet 6700 AHR0801332 | FTIR | Oct 09, 2020 |

Triad Data Available Upon Request



Signature on file

Approved for Release

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

| | |
|--------------------------------------|----------------------------------|
| Part Number: E02AI99E15A00E7 | Reference Number: 54-401149701-1 |
| Cylinder Number: CC145376 | Cylinder Volume: 146.2 CF |
| Laboratory: 124 - Chicago (SAP) - IL | Cylinder Pressure: 2015 PSIG |
| PGVP Number: B12018 | Valve Outlet: 590 |
| Gas Code: PPN,BALA | Certification Date: Mar 19, 2018 |

Expiration Date: Mar 19, 2026

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a mole/mole basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

| Component | Requested Concentration | Actual Concentration | Protocol Method | Total Relative Uncertainty | Assay Dates |
|-----------|-------------------------|----------------------|-----------------|----------------------------|-------------|
| PROPANE | 17.00 PPM | 16.92 PPM | G1 | +/- 1.0% NIST Traceable | 03/19/2018 |
| AIR | Balance | | | | |

CALIBRATION STANDARDS

| Type | Lot ID | Cylinder No | Concentration | Uncertainty | Expiration Date |
|------|----------|-------------|-----------------------|-------------|-----------------|
| NTRM | 16061113 | EB0081680 | 50.06 PPM PROPANE/AIR | +/- 0.4% | Jul 26, 2022 |

ANALYTICAL EQUIPMENT

| Instrument/Make/Model | Analytical Principle | Last Multipoint Calibration |
|-------------------------|----------------------|-----------------------------|
| Nicolet 6700 AHR0801332 | FTIR | Feb 21, 2018 |

Triad Data Available Upon Request



Signature on file

Approved for Release

Appendix A.4 Equipment Calibration Data



EPA Method 5 Meter Box Calibration by Calibrated Critical Orifice, Leak Check, and Thermocouple Calibration Check English Meter Box Units, English K' Factor

| | |
|---------------------------|---------|
| Meter box ID: | CB-04 |
| Meter ID (if applicable): | CB-04 |
| Orifice set ID: | Antioch |
| Calibrated by: | KA |
| Expires: | 10/8/21 |

| | |
|--------------------------------|--------------|
| Date: | 4/8/21 |
| Location: | Antioch |
| No. of orifices used (min. 3): | 5 |
| Barometric pressure (in. Hg): | 30.01 in. Hg |
| Theoretical critical vacuum: | 14.16 in. Hg |

| | |
|------|-------|
| Yd: | 1.026 |
| ΔH@: | 1.890 |

Meter Box Orifice Calibration

IMPORTANT For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above
 IMPORTANT The Critical Orifice Coefficient, K, must be entered in English units, (ft)³/(deg R)^{0.5}/(in. Hg)²(min)

| ΔH (in. H ₂ O) | Time (min) | Volume | | Initial Temps. | | Final Temps. | | K' Orifice Coefficient (see above) | 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) |
| 0.32 | 19.00 | 560.303 | 585.913 | 72.0 | 72.0 | 72.0 | 72.0 | 0.2355 | 16.0 | 75.0 | 75.0 | 75.0 |
| 0.67 | 14.00 | 554.186 | 560.303 | 72.0 | 72.0 | 73.0 | 73.0 | 0.3461 | 16.0 | 75.0 | 75.0 | 75.0 |
| 1.10 | 11.00 | 535.189 | 541.156 | 66.0 | 66.0 | 68.0 | 68.0 | 0.4320 | 16.0 | 75.0 | 75.0 | 75.0 |
| 2.00 | 8.00 | 541.156 | 547.192 | 68.0 | 68.0 | 71.0 | 71.0 | 0.5959 | 16.0 | 75.0 | 75.0 | 75.0 |
| 3.35 | 7.00 | 547.192 | 554.186 | 71.0 | 71.0 | 72.0 | 72.0 | 0.7849 | 16.0 | 75.0 | 75.0 | 75.0 |

— SAMPLE RATE —
INDICATED VS. ACTUAL

| ΔH (in. H ₂ O) | Sample Rate (scfm) |
|---------------------------|--------------------|
| 0.32 | 0.308 |
| 0.67 | 0.449 |
| 1.10 | 0.560 |
| 2.00 | 0.773 |
| 3.35 | 1.018 |

— DRY GAS METER —
VOLUME CORRECTED

| Vm(std) (cu ft) |
|-----------------|
| 5.587 |
| 6.091 |
| 6.010 |
| 6.064 |
| 7.023 |

— ORIFICE —
VOLUME CORRECTED NOMINAL

| Vm(std) (cu ft) | Vm (cu ft) |
|-----------------|------------|
| 5.585 | 5.867 |
| 6.287 | 6.353 |
| 6.165 | 6.231 |
| 6.185 | 6.251 |
| 7.129 | 7.204 |

— DRY GAS METER —
CALIBRATION FACTOR

| Value (number) | Variation (number) |
|----------------|--------------------|
| 1.0391 | 0.013 |
| 1.0321 | 0.006 |
| 1.0269 | -0.001 |
| 1.0200 | -0.006 |
| 1.0150 | -0.011 |

— ORIFICE —
CALIBRATION FACTOR ΔH@

| Value (in. H ₂ O) | Variation (in. H ₂ O) |
|------------------------------|----------------------------------|
| 1.978 | 0.029 |
| 1.859 | -0.031 |
| 1.978 | 0.059 |
| 1.862 | -0.008 |
| 1.810 | -0.080 |

QA Criteria:

| | |
|-------------------|--------|
| Average Yd | 1.0264 |
| Average ΔH@ | 1.8900 |
| Variation of Yd's | PASS |
| Variation of ΔH@ | PASS |
| Vacuum Criteria | PASS |

For Calibration Factor Y, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +/-0.02.

For Orifice Calibration Factor ΔH@, the orifice differential pressure in inches of H₂O that equates to 0.75 cfm of air at 68 F and 29.92 inches of Hg, acceptable tolerance of individual values from the average is +/-0.2.

Meter Box Pressure Leak Check

| | | |
|---------------------------------------|---|--|
| Test Pressure (in. H ₂ O): | 6 | Should be 5-7 in. H ₂ O |
| Leak Rate (in. H ₂ O/min): | 0 | Must be zero (manometer level stable for 1 minute) |

Meter Box Vacuum Leak Check

| | | |
|-----------------------|----|--|
| Test Vacuum (in. Hg): | 25 | Coarse adjust valve fully open, fine adjust fully closed, sample inlet plugged |
| Leak Rate (cfm): | 0 | Must be zero (meter dial stable for 1 minute) |

Meter Box Thermocouple Readout Calibration Check

| Input Temperature | Allowable Temp. Dev.* | Low | High |
|-------------------|-----------------------|-----|------|
| 30 | 7 | 23 | 37 |
| 70 | 8 | 62 | 78 |
| 120 | 9 | 111 | 129 |
| 250 | 11 | 239 | 261 |
| 350 | 12 | 338 | 362 |
| 500 | 14 | 486 | 514 |
| 700 | 17 | 663 | 717 |
| 900 | 20 | 880 | 920 |

| Stack | Probe | Filter | Exit | Aux. |
|-------|-------|--------|------|------|
| 27 | 27 | 26 | 27 | 27 |
| 66 | 66 | 66 | 66 | 66 |
| 116 | 116 | 116 | 116 | 116 |
| 248 | 248 | 248 | 248 | 248 |
| 347 | 347 | 347 | 347 | 347 |
| 495 | | | | |
| 598 | | | | |
| 898 | | | | |

Thermocouple simulator

| | |
|----------------|------------|
| Make: | Omega |
| Model: | CL125 |
| Serial Number: | 16200736 |
| Cal Date: | 12/19/2020 |

* Reading values must be within 1.5% of reference thermometer values (based on absolute temperature scale) for calibration to be acceptable

Performed by: Raul Moreno

Name: Kyle Andersen

Signature: *[Signature]*

Date: 4/8/21

Approved by:

Name: Andrew Kobayashi

Signature: *[Signature]*

Date: 4/8/21



EPA Method 5
Meter Box Calibration by Calibrated Critical Orifice,
Leak Check, and Thermocouple Calibration Check
English Meter Box Units, English K' Factor

| | |
|---------------------------|---------|
| Meter box ID: | CB 04 |
| Meter ID (if applicable): | CB 04 |
| Orifice set ID: | Antioch |
| Calibrated by: | RM |
| Expires: | 4/15/22 |

| | |
|--------------------------------|--------------|
| Date: | 10/15/21 |
| Location: | Antioch |
| No. of orifices used (min. 3): | 5 |
| Barometric pressure (in. Hg): | 30.16 in. Hg |
| Theoretical critical vacuum | 14.23 in. Hg |

| | |
|------|--------|
| Yd: | 1.0186 |
| AH@: | 1.871 |

Meter Box Orifice Calibration

IMPORTANT For valid test results, the Actual Vacuum should be 1 to 2 in. Hg greater than the Theoretical Critical Vacuum shown above
 IMPORTANT The Critical Orifice Coefficient, K', must be entered in English units, (ft³/deg R)(in.Hg)(min).

| ΔH (in. H2O) | Time (min) | Volume | | Net (cu ft) | Initial Temps. | | Final Temps. | | Orifice Serial# | K' Coefficient | Vacuum | |
|--------------|------------|-----------------|---------------|-------------|----------------|----------------|---------------|----------------|-----------------|----------------|---------|---------|
| | | Initial (cu ft) | Final (cu ft) | | Inlet (deg F) | Outlet (deg F) | Inlet (deg F) | Outlet (deg F) | | | (in Hg) | (deg F) |
| 0.33 | 18.00 | 872.502 | 877.825 | 5.323 | 67.0 | 67.0 | 68.0 | 68.0 | RG-40 | 0.2355 | 16.0 | 71.0 |
| 0.68 | 12.00 | 877.825 | 883.092 | 5.267 | 68.0 | 68.0 | 68.0 | 68.0 | RG-48 | 0.3461 | 16.0 | 71.0 |
| 1.10 | 10.00 | 883.092 | 888.584 | 5.492 | 68.0 | 68.0 | 69.0 | 69.0 | RG-55 | 0.4320 | 16.0 | 71.0 |
| 1.90 | 7.00 | 888.584 | 893.940 | 5.356 | 69.0 | 69.0 | 69.0 | 69.0 | RG-53 | 0.5959 | 16.0 | 71.0 |
| 3.30 | 6.00 | 893.940 | 898.212 | 5.957 | 62.0 | 62.0 | 64.0 | 64.0 | RG-73 | 0.7849 | 16.0 | 71.0 |

— SAMPLE RATE —
 INDICATED VS. ACTUAL

— DRY GAS METER —
 VOLUME CORRECTED

| | |
|--------------|--------------------|
| ΔH (in. H2O) | Sample Rate (scfm) |
| 0.33 | 0.308 |
| 0.68 | 0.453 |
| 1.10 | 0.555 |
| 1.90 | 0.780 |
| 3.30 | 1.027 |

— ORIFICE —
 VOLUME CORRECTED NOMINAL

| | |
|---------|---------|
| V (scf) | V (scf) |
| 5.373 | 5.316 |
| 5.436 | 5.443 |
| 5.654 | 5.412 |
| 5.480 | 6.109 |
| 6.104 | 6.152 |

— DRY GAS METER —
 CALIBRATION FACTOR

| | |
|--------|-----------|
| Value | Variation |
| 1.0326 | 0.014 |
| 1.0226 | 0.004 |
| 1.0200 | 0.001 |
| 1.009 | -0.010 |
| 1.009 | -0.010 |

— ORIFICE —
 CALIBRATION FACTOR

| | |
|-------|-----------|
| Value | Variation |
| 1.971 | 0.100 |
| 1.878 | 0.008 |
| 1.949 | 0.078 |
| 1.788 | -0.104 |
| 1.790 | -0.081 |

For Calibration Factor Yd, the ratio of the reading of the calibration meter to the dry gas meter, acceptable tolerance of individual values from the average is +4/-0.2.
 For Orifice Calibration Factor AH@, the orifice differential pressure in inches of H2O that equates to 0.75 scfm of air at 68 F and 29.92 inches of Hg, acceptable tolerance of individual values from the average is +4/-0.2.

| | |
|------------------|--------|
| Average Yd | 1.0186 |
| Average AH@ | 1.8714 |
| Variation of Yds | PASS |
| Variation of AH@ | PASS |
| Vacuum Criteria | PASS |

Meter Box Pressure Leak Check

| | | |
|---------------------------|---|--|
| Test Pressure, (in. H2O): | 6 | Should be 5-7 in. H2O |
| Leak Rate, (in. H2O/min): | 0 | Must be zero (manometer level stable for 1 minute) |

Meter Box Vacuum Leak Check

| | | |
|------------------------|----|--|
| Test Vacuum, (in. Hg): | 25 | Coarse adjust valve fully open, fine adjust fully closed, sample inlet plugged |
| Leak Rate, (scfm): | 0 | Must be zero (meter dial stable for 1 minute) |

Meter Box Thermocouple Readout Calibration Check

| Input Temperature | Allowable Temp. Dev. * | Low | High |
|-------------------|------------------------|-----|------|
| 30 | 7 | 23 | 37 |
| 70 | 8 | 62 | 78 |
| 120 | 9 | 111 | 129 |
| 250 | 11 | 239 | 267 |
| 350 | 12 | 338 | 362 |
| 500 | 14 | 486 | 514 |
| 700 | 17 | 717 | 745 |
| 900 | 20 | 880 | 920 |

| Stack | Probe | Filter | Exit | Aux. |
|-------|-------|--------|------|------|
| 27 | 27 | 27 | 28 | 28 |
| 66 | 66 | 67 | 67 | 66 |
| 117 | 117 | 118 | 117 | 117 |
| 249 | 248 | 249 | 249 | 249 |
| 348 | 348 | 348 | 348 | 348 |
| 495 | | | | |
| 698 | | | | |
| 898 | | | | |

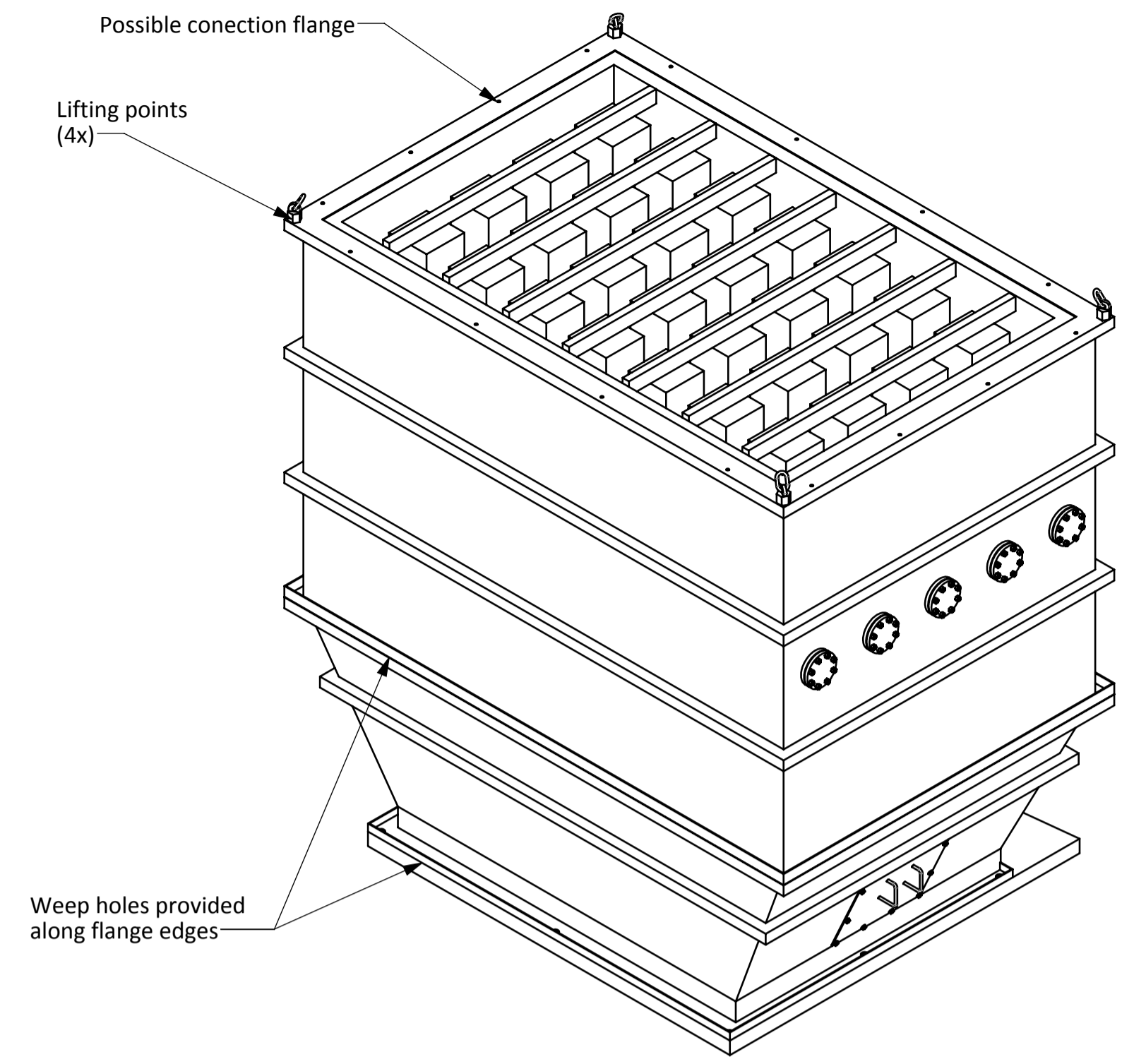
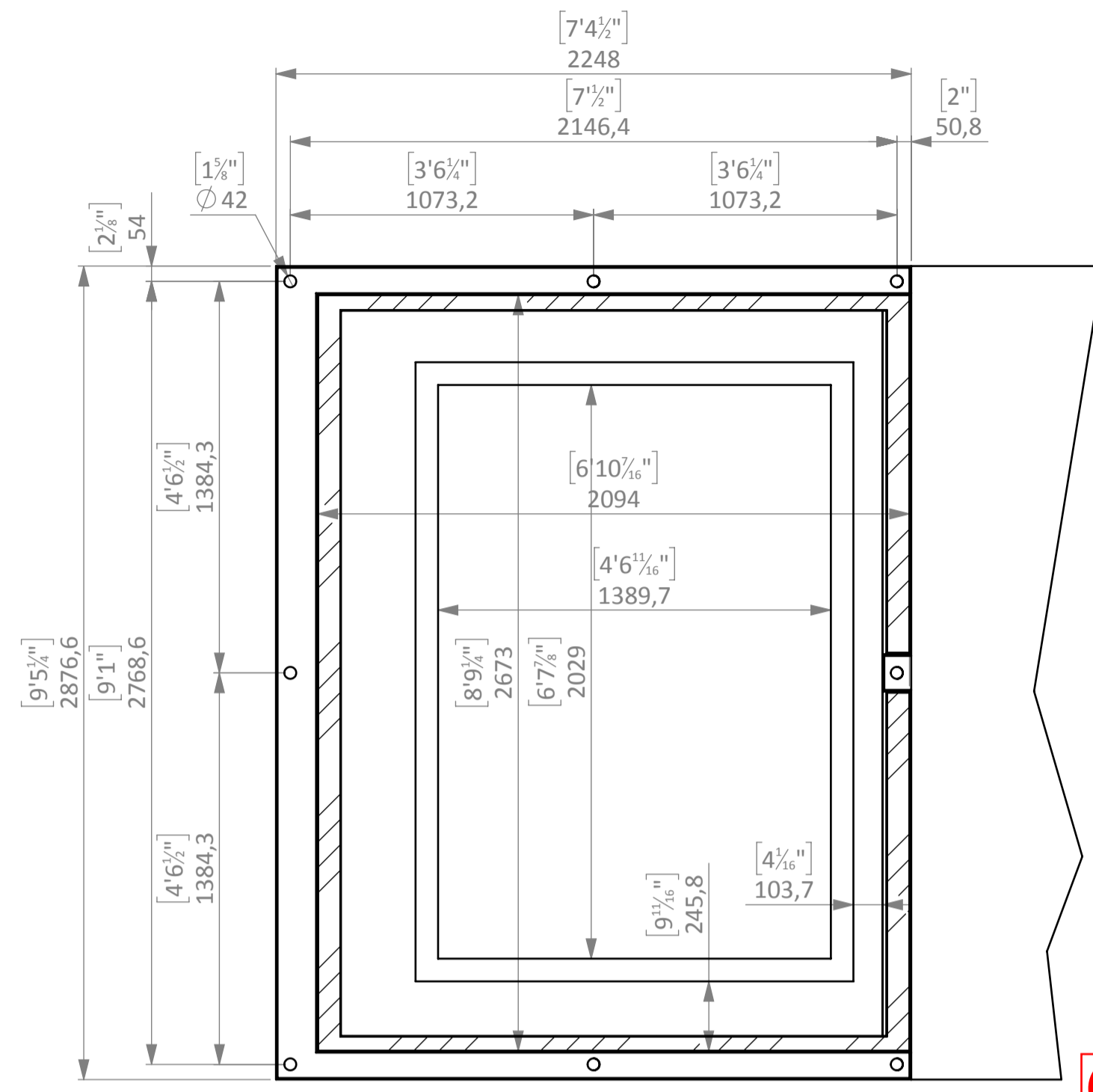
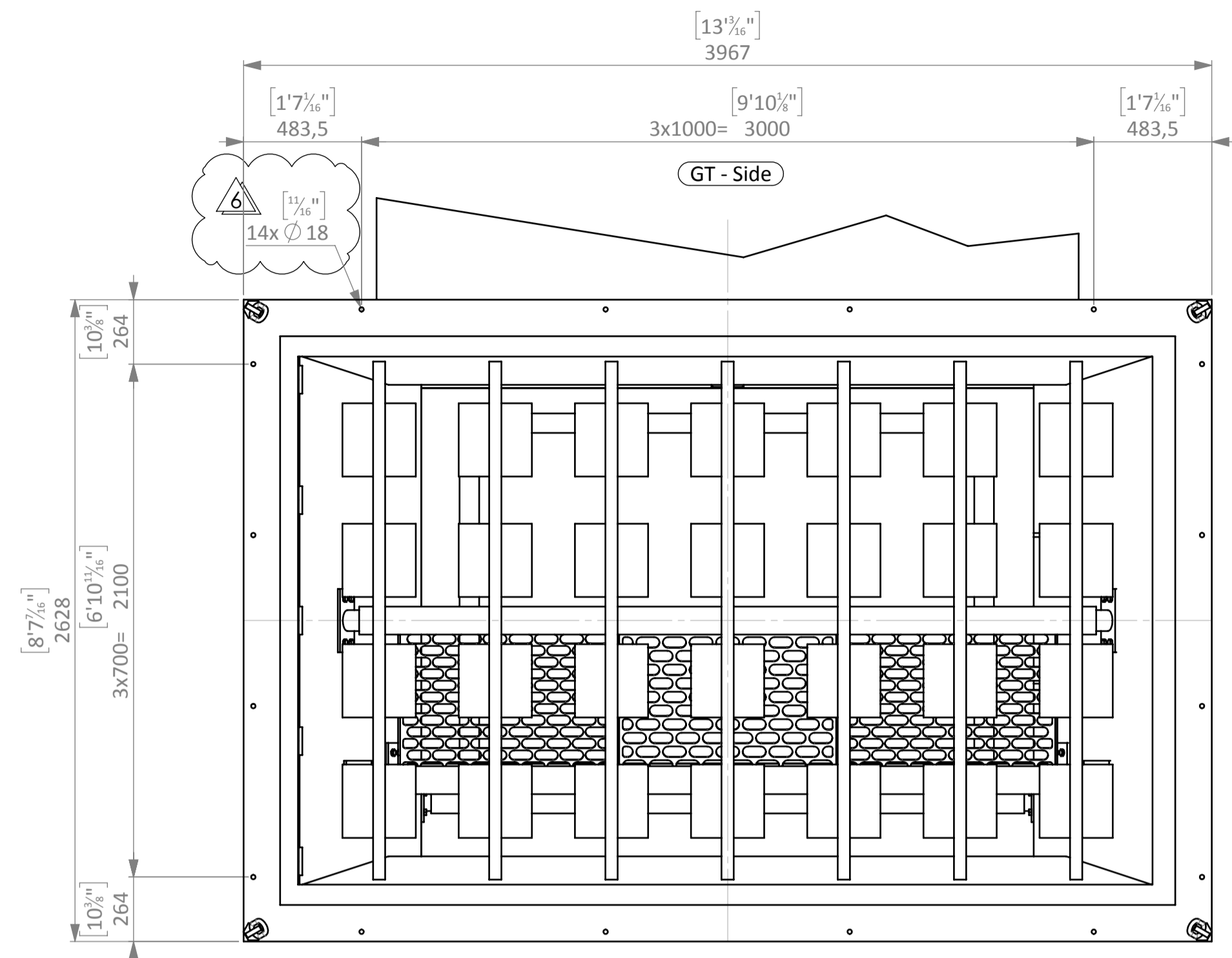
| | |
|---------------|------------|
| Make | Omega |
| Model | CL125 |
| Serial Number | 18200736 |
| Cal Date | 12/18/2020 |

* Reading values must be within 1.5% of reference thermometer values (based on absolute temperature scale) for calibration to be acceptable.

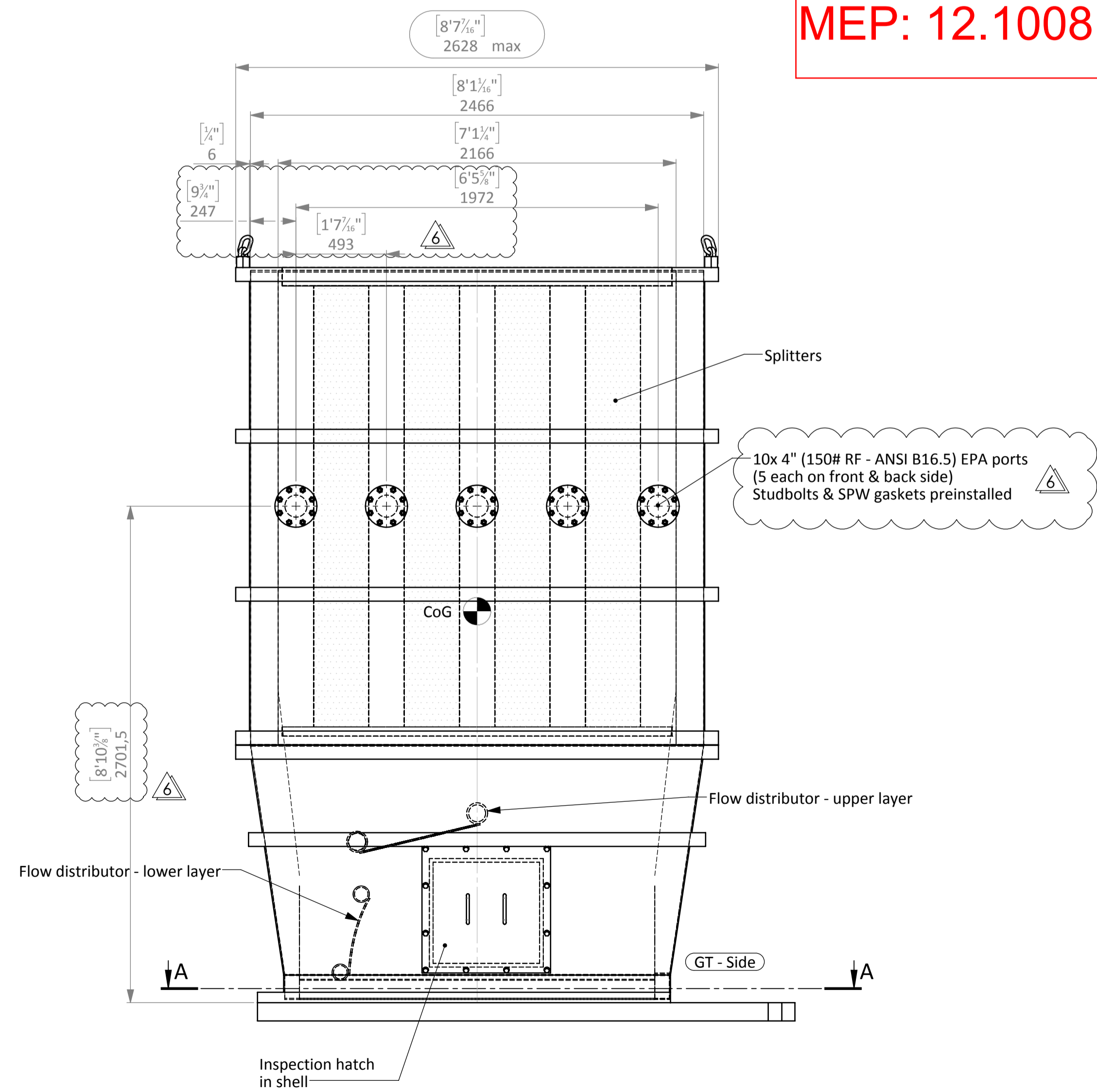
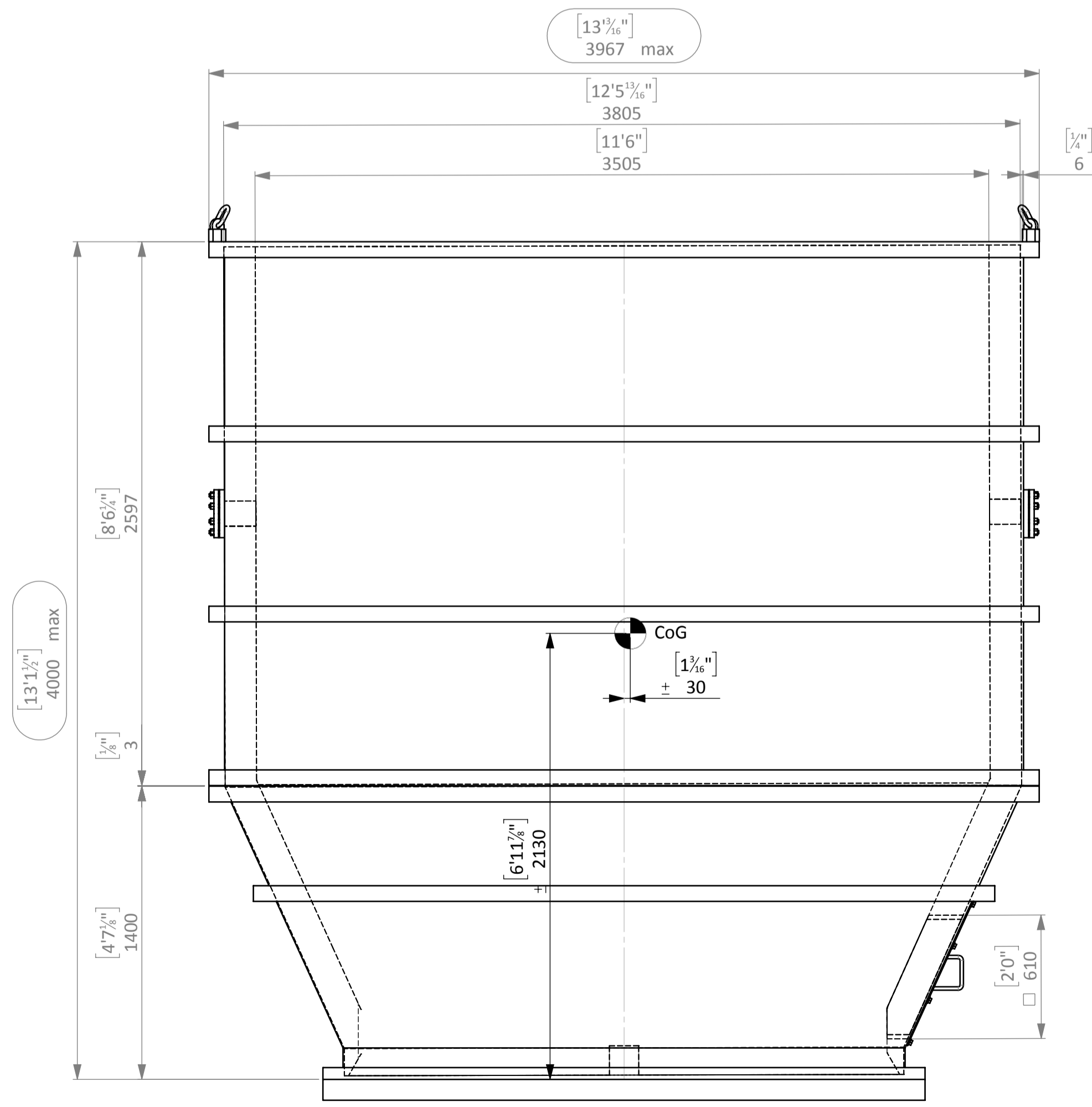
Performed by: _____ Name: Raul Moreno
 Signature: [Signature] Date: 10/15/21
 Approved by: _____ Name: Dan Duncom
 Signature: [Signature] Date: 10/15/21

APPENDIX B DATA SHEETS

Appendix B.1 Sampling Locations



GE P/N: 390A4670P0001
MEP: 12.1008



- Hardware (except for gasket) to be preinstalled on bottom duct**
- 52x Hexagon bolt, 5/8" UNC L=1 3/4"
 - 52x Flat washer - type B, 5/8" Regular
 - 52x Flat washer - type B, 5/8" Narrow
 - 52x Hexagon nut, 5/8" UNC
 - 1x Glassfibre gasket (shipped loose, to be installed on site)
- General:**
 Max Flow conditions
 Design flow GT - 232.33 [PPS] / 105.38 [kg/s]
 Design flow vent - 56.87 [PPS] / 25.80 [kg/s]
 Design temp GT - 884 [F] / 473 [C]
 Ambient temp vent - -30 [F] / -34 [C]
- Max Velocity conditions**
 Design flow GT - 219.9 [PPS] / 99.74 [kg/s]
 Design flow vent - 42.7 [PPS] / 19.37 [kg/s]
 Design temp GT - 1045 [F] / 563 [C]
 Ambient temp vent - 40 [F] / 4 [C]
- Painting Procedure:**
 Inside ducting (insulated) &
 Outside ducted (non-insulated)
- Shotblasting Sa 2 1/2
 - Primer: 1 layer Sigmazinc 158 - DFT 75µm
 - Top coat: 1 layer Sigmatherm 540 - DFT 25-40µm

- Materials:**
 Shell - S355, t=6mm
 Internal lining - AISI 409, t=2-3mm
 Splitterframe - AISI 409, t=2mm
 Perforated sheet - AISI 409, t=1 1/2mm
 Wool (inside insulation) - Basaltwool 120kg/m³
 Wool (splitters) - Basaltwool 100kg/m³ (minimum)
- Reference Drawings:**
 021 - Transport & Lifting plan
 100 - Assembly drawing
 200 - Shell bottom duct - production
 210 - Inspection hatch bottom duct - production
 220 - Internal insulation bottom duct - production
 300 - Shell top duct - production
 310 - Internal insulation top duct - production
 400 - Flow distributor - production
 500 - Silencer splitter & supports - production
- Estimated weight:**
 Top duct (excl. splitters) - ± 3250kg
 Splitters - ± 2500kg
 Bottom duct - ± 2250kg
 Total - ± 8000kg

| Rev.: | Date: | Reason for issue: | By: | Chkd: | Appd: |
|-------|----------|------------------------|-----|-------|-------|
| 6 | 29/08/16 | Client Comments | MSm | Clo | MPo |
| 5 | 12/07/16 | As Built | MSm | Clo | MPo |
| 4 | 10/06/16 | Final | MSm | Clo | MPo |
| 3 | 09/06/16 | Client Comments | MSm | Clo | MPo |
| 2 | 01/06/16 | Revised Flowplates | MSm | Clo | MPo |
| 1 | 15/04/16 | Adjusted for DDR phase | MSm | Clo | MPo |

General tolerances according to:

| | | |
|--------------|--------------|---|
| Drawn by: | Date: | Customer: |
| MSm | 30/03/16 | GE Packaged Power, L.P. Exhaust Stack TM2500 Gen 8 |
| Checked by: | Approved by: | Title: |
| Clo | MPo | General Arrangement General Arrangement DDR PHASE |
| Drawing No.: | Revision: | |
| 020 | 06 | |
| Sheet 1 of 1 | Scale: | |
| Am.Proj. | 1:20 | |
| Order no.: | 12-1008 | |

DAHLMAN

Royal Dahman
 Noorder 6-8, 3144 DR Maassluis
 P.O. box 418, 3146 AC Maassluis
 The Netherlands
 Phone: +31 (0)10 5991111
 Fax: +31 (0)10 5991100

40 CFR Part 75 Sample Point Selection and Stratification Check

| | | | |
|-----------------|--------------|------------|------------|
| Client: | GE Power | Test Date: | 9/21/2021 |
| Facility: | Green Leaf 1 | Operator: | Tom Cassin |
| Source: | TM 2500 GT 2 | | |
| Test Location: | Stack | | |
| Condition/Load: | Base | | |
| Project Number: | PROJ-011221 | | |

Sample Location Information

| | | | |
|--------------------------|-------------|--------------|------|
| Shape of Sample Location | Rectangular | Port Length: | 6.50 |
| Depth: | 11.60 Ft. | | |
| Width: | 7.10 Ft. | | |

Performance Specification 2 Traverse Point Guidance

Is the test location downstream of wet scrubbers
 or at points where two streams with different pollutant concentrations are combined? **No**

Calculated Sample Points

| Short Line Points With Port Length Added | | Long Line Points (16.7, 50.0, and 83.3%) | |
|--|----------------------|--|----------------------|
| Point | Point Distance (in.) | Point | Point Distance (in.) |
| 1 | 85.25 | 1 | 122.45 |
| 2 | 53.75 | 2 | 76.10 |
| 3 | 22.25 | 3 | 29.75 |

| Alt Method 1 Short Line Points With Port Length Added | | Method 1 Points - Six (6) Per Port - Round With Port Length Added | |
|---|----------------------|---|-------|
| Point | Point Distance (in.) | | |
| 1 | 47.7 | 1 | 139.6 |
| 2 | 26.8 | 2 | 125.4 |
| 3 | 12.6 | 3 | 104.5 |
| | | 4 | 47.7 |
| | | 5 | 26.8 |
| | | 6 | 12.6 |

Appendix B.2 Plant Process Data

GE Trend Test 1 Unit 1

| DATETIME | MW | TE_2024 | PGASA | TE_2037 | PT_2074A | FT_2003 | FT_2000 |
|----------|----|---------|-------|---------|----------|---------|---------|
| #!Min | 10 | 0 | 410 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | F | | gpm | ACFM |

| #!Description | MW SELECT | FUEL SUPPLY TEMPERATURE A | GAS FUEL SUPPLY PRESSURE | DE-MIN WATER SUPPLY TEMP(x10) | DE-MIN WATER SUPPLY PRESS(x10) | NOX WATER INJECTION FLOW(x10) | GAS FLOW FT2000(x10) |
|---------------|--------------|---------------------------------|--------------------------------|--|---|--|-------------------------|
| 10:26:22 AM | 32.2455 | 742 | 497.9292 | 831 | 659 | 393 | 1431 |
| 10:26:52 AM | 32.2455 | 743 | 498.0047 | 830 | 657 | 393 | 1432 |
| 10:27:22 AM | 32.2455 | 744 | 498.0497 | 830 | 658 | 393 | 1433 |
| 10:27:51 AM | 32.2455 | 743 | 498.0165 | 831 | 664 | 393 | 1432 |
| 10:28:21 AM | 32.2455 | 744 | 498.4251 | 831 | 664 | 392 | 1429 |
| 10:28:51 AM | 32.121 | 744 | 498.4171 | 830 | 656 | 393 | 1428 |
| 10:29:21 AM | 32.121 | 745 | 498.6143 | 830 | 660 | 393 | 1424 |
| 10:29:50 AM | 32.121 | 744 | 498.7681 | 831 | 657 | 393 | 1425 |
| 10:30:20 AM | 32.2455 | 745 | 498.2302 | 831 | 657 | 392 | 1426 |
| 10:30:50 AM | 32.121 | 746 | 498.4621 | 831 | 655 | 392 | 1427 |
| 10:31:20 AM | 32.2455 | 746 | 498.5865 | 831 | 658 | 393 | 1426 |
| 10:31:49 AM | 32.2455 | 747 | 498.3599 | 831 | 657 | 392 | 1431 |
| 10:32:19 AM | 32.121 | 747 | 498.5045 | 831 | 658 | 392 | 1427 |
| 10:32:49 AM | 32.121 | 747 | 498.4556 | 831 | 652 | 392 | 1428 |
| 10:33:18 AM | 31.9965 | 748 | 499.0446 | 831 | 649 | 392 | 1423 |
| 10:33:48 AM | 32.121 | 748 | 498.4865 | 831 | 660 | 393 | 1428 |
| 10:34:18 AM | 32.121 | 749 | 498.263 | 831 | 656 | 393 | 1429 |
| 10:34:48 AM | 32.121 | 749 | 498.2328 | 831 | 659 | 393 | 1431 |
| 10:35:17 AM | 32.121 | 749 | 498.4431 | 831 | 648 | 392 | 1429 |
| 10:35:47 AM | 32.121 | 749 | 497.9402 | 831 | 649 | 393 | 1437 |
| 10:36:17 AM | 32.121 | 750 | 497.6618 | 831 | 655 | 393 | 1447 |
| 10:36:46 AM | 32.121 | 750 | 496.7661 | 831 | 659 | 395 | 1461 |
| 10:37:16 AM | 32.121 | 750 | 495.7647 | 831 | 663 | 395 | 1476 |
| 10:37:46 AM | 32.121 | 750 | 494.4777 | 831 | 662 | 397 | 1499 |
| 10:38:16 AM | 32.121 | 751 | 492.6962 | 830 | 662 | 399 | 1530 |
| 10:38:45 AM | 31.9965 | 752 | 490.8495 | 830 | 653 | 400 | 1551 |
| 10:39:15 AM | 31.9965 | 752 | 489.041 | 830 | 653 | 400 | 1574 |
| 10:39:45 AM | 31.872 | 752 | 487.0768 | 830 | 656 | 400 | 1606 |
| 10:40:14 AM | 31.623 | 752 | 486.685 | 830 | 662 | 401 | 1613 |
| 10:40:44 AM | 31.374 | 753 | 486.7064 | 830 | 657 | 401 | 1618 |
| 10:41:14 AM | 31.374 | 753 | 486.5667 | 830 | 659 | 400 | 1619 |
| 10:41:44 AM | 31.4985 | 753 | 486.7239 | 830 | 660 | 401 | 1618 |
| 10:42:13 AM | 31.374 | 754 | 486.8505 | 830 | 657 | 401 | 1620 |
| 10:42:43 AM | 31.374 | 754 | 486.8627 | 830 | 659 | 401 | 1620 |
| 10:43:13 AM | 31.4985 | 754 | 487.1126 | 830 | 660 | 400 | 1616 |
| 10:43:43 AM | 31.7475 | 754 | 487.1115 | 831 | 657 | 401 | 1615 |
| 10:44:12 AM | 31.7475 | 755 | 487.0317 | 830 | 659 | 400 | 1615 |
| 10:44:42 AM | 31.872 | 756 | 487.385 | 830 | 652 | 400 | 1614 |
| 10:45:12 AM | 31.872 | 756 | 488.1693 | 831 | 654 | 400 | 1599 |
| 10:45:41 AM | 31.9965 | 756 | 489.0569 | 831 | 658 | 400 | 1583 |
| 10:46:11 AM | 31.872 | 756 | 490.1136 | 831 | 654 | 400 | 1568 |
| 10:46:41 AM | 31.9965 | 756 | 490.027 | 831 | 657 | 400 | 1569 |
| 10:46:41 AM | 31.9965 | 756 | 490.027 | 831 | 657 | 400 | 1569 |
| 10:47:11 AM | 32.121 | 757 | 490.4112 | 831 | 654 | 400 | 1566 |
| 10:47:40 AM | 31.9965 | 757 | 491.1669 | 831 | 651 | 400 | 1555 |
| 10:48:10 AM | 31.9965 | 758 | 491.9897 | 831 | 652 | 399 | 1543 |
| 10:48:40 AM | 32.121 | 758 | 493.0853 | 831 | 656 | 398 | 1528 |
| 10:49:09 AM | 32.121 | 758 | 494.2949 | 831 | 649 | 398 | 1510 |
| 10:49:39 AM | 32.121 | 758 | 495.3649 | 831 | 661 | 396 | 1494 |
| 10:50:09 AM | 31.9965 | 759 | 496.3835 | 832 | 660 | 395 | 1477 |
| 10:50:39 AM | 32.121 | 759 | 497.1998 | 832 | 650 | 394 | 1464 |
| 10:51:08 AM | 31.872 | 760 | 498.3293 | 832 | 661 | 393 | 1447 |
| 10:51:38 AM | 31.872 | 760 | 499.0942 | 832 | 662 | 393 | 1439 |
| 10:52:08 AM | 31.9965 | 760 | 499.1724 | 832 | 657 | 392 | 1431 |

| | | | | | | | |
|-------------|---------|-----|----------|-----|-----|-----|------|
| 10:52:38 AM | 31.872 | 760 | 499.3456 | 832 | 663 | 392 | 1430 |
| 10:53:07 AM | 31.872 | 761 | 499.7805 | 832 | 658 | 392 | 1422 |
| 10:53:37 AM | 31.7475 | 761 | 499.7633 | 833 | 662 | 392 | 1421 |
| 10:54:07 AM | 31.7475 | 762 | 500.0414 | 833 | 652 | 392 | 1421 |
| 10:54:36 AM | 31.7475 | 762 | 500.3439 | 833 | 649 | 392 | 1419 |
| 10:55:06 AM | 31.872 | 762 | 499.9014 | 833 | 655 | 392 | 1423 |
| 10:55:36 AM | 31.872 | 763 | 499.8957 | 833 | 662 | 392 | 1419 |
| 10:56:06 AM | 31.872 | 763 | 500.054 | 833 | 659 | 392 | 1422 |
| 10:56:35 AM | 31.7475 | 762 | 500.189 | 833 | 653 | 392 | 1417 |
| 10:57:05 AM | 31.623 | 763 | 500.7646 | 832 | 658 | 392 | 1412 |
| 10:57:35 AM | 31.623 | 764 | 500.8436 | 833 | 659 | 391 | 1409 |
| 10:58:04 AM | 31.7475 | 764 | 500.7543 | 833 | 659 | 392 | 1415 |
| 10:58:34 AM | 31.623 | 764 | 501.0012 | 833 | 647 | 391 | 1409 |
| 10:59:04 AM | 31.623 | 765 | 500.91 | 833 | 659 | 391 | 1408 |
| 10:59:34 AM | 31.623 | 765 | 501.1591 | 834 | 659 | 391 | 1409 |
| 11:00:03 AM | 31.623 | 765 | 501.4379 | 834 | 655 | 391 | 1407 |
| 11:00:33 AM | 31.623 | 766 | 501.4425 | 834 | 656 | 391 | 1411 |
| 11:01:03 AM | 31.7475 | 766 | 501.0759 | 834 | 651 | 392 | 1414 |
| 11:01:32 AM | 31.872 | 766 | 501.2098 | 833 | 652 | 392 | 1415 |
| 11:02:02 AM | 31.623 | 766 | 501.5474 | 834 | 662 | 392 | 1411 |
| 11:02:32 AM | 31.4985 | 767 | 501.8301 | 834 | 658 | 391 | 1406 |
| 11:03:02 AM | 31.4985 | 767 | 501.6691 | 834 | 649 | 390 | 1404 |
| 11:03:31 AM | 31.4985 | 768 | 502.0731 | 833 | 654 | 391 | 1403 |
| 11:04:01 AM | 31.623 | 768 | 501.6115 | 834 | 654 | 391 | 1408 |
| 11:04:31 AM | 31.623 | 768 | 501.6775 | 834 | 656 | 391 | 1408 |
| 11:05:01 AM | 31.4985 | 768 | 501.8331 | 834 | 651 | 391 | 1404 |
| 11:05:30 AM | 31.623 | 769 | 501.7683 | 834 | 654 | 391 | 1407 |
| 11:06:00 AM | 31.623 | 769 | 501.3788 | 834 | 660 | 391 | 1407 |
| 11:06:30 AM | 31.623 | 770 | 501.5822 | 834 | 654 | 392 | 1410 |
| 11:06:59 AM | 31.623 | 770 | 501.4543 | 835 | 658 | 391 | 1407 |
| 11:07:29 AM | 31.623 | 770 | 501.4857 | 835 | 654 | 391 | 1409 |
| 11:07:59 AM | 31.623 | 771 | 501.5173 | 834 | 663 | 392 | 1410 |
| 11:08:29 AM | 31.623 | 771 | 501.3884 | 835 | 654 | 392 | 1413 |
| 11:08:58 AM | 31.4985 | 771 | 501.7843 | 834 | 657 | 391 | 1407 |
| 11:09:28 AM | 31.7475 | 772 | 501.2812 | 834 | 666 | 392 | 1419 |
| 11:09:58 AM | 31.623 | 772 | 500.8463 | 834 | 658 | 392 | 1423 |
| 11:10:27 AM | 31.623 | 772 | 500.6044 | 834 | 662 | 393 | 1428 |
| 11:10:27 AM | 31.623 | 772 | 500.6044 | 834 | 659 | 393 | 1428 |
| 11:10:57 AM | 31.623 | 773 | 499.1968 | 834 | 659 | 393 | 1453 |
| 11:11:27 AM | 31.4985 | 774 | 497.4737 | 834 | 655 | 395 | 1479 |
| 11:11:57 AM | 31.623 | 773 | 496.1794 | 834 | 659 | 397 | 1501 |
| 11:12:26 AM | 31.4985 | 774 | 496.1744 | 833 | 653 | 397 | 1500 |
| 11:12:56 AM | 31.623 | 774 | 497.6133 | 834 | 659 | 395 | 1479 |
| 11:13:26 AM | 31.623 | 774 | 498.4106 | 834 | 652 | 394 | 1458 |
| 11:13:55 AM | 31.4985 | 775 | 499.3666 | 834 | 660 | 393 | 1442 |
| 11:14:25 AM | 31.4985 | 775 | 500.6124 | 834 | 658 | 392 | 1422 |
| 11:14:55 AM | 31.4985 | 775 | 500.9935 | 834 | 663 | 392 | 1417 |
| 11:15:25 AM | 31.4985 | 776 | 501.2487 | 834 | 660 | 391 | 1414 |
| 11:15:54 AM | 31.4985 | 776 | 501.6676 | 835 | 652 | 391 | 1408 |
| 11:16:24 AM | 31.374 | 776 | 502.0029 | 835 | 661 | 390 | 1405 |
| 11:16:54 AM | 31.2495 | 776 | 502.1642 | 835 | 664 | 390 | 1398 |
| 11:17:24 AM | 31.125 | 776 | 502.9093 | 835 | 656 | 389 | 1393 |
| 11:17:53 AM | 31.2495 | 777 | 502.4019 | 835 | 655 | 390 | 1399 |
| 11:18:23 AM | 31.125 | 777 | 502.7193 | 835 | 654 | 389 | 1392 |
| 11:18:53 AM | 31.125 | 778 | 502.8994 | 835 | 663 | 389 | 1392 |
| 11:19:22 AM | 31.2495 | 778 | 502.9241 | 836 | 662 | 390 | 1392 |
| 11:19:52 AM | 31.374 | 779 | 502.6259 | 836 | 644 | 390 | 1401 |
| 11:20:22 AM | 31.2495 | 779 | 502.6098 | 835 | 659 | 390 | 1399 |
| 11:20:52 AM | 31.4985 | 779 | 502.2566 | 835 | 654 | 391 | 1408 |
| 11:21:21 AM | 31.374 | 780 | 502.1845 | 835 | 656 | 391 | 1405 |
| 11:21:51 AM | 31.374 | 779 | 502.3676 | 835 | 655 | 391 | 1404 |
| 11:22:21 AM | 31.374 | 780 | 502.632 | 836 | 651 | 391 | 1403 |
| 11:22:50 AM | 31.374 | 780 | 502.4328 | 835 | 656 | 391 | 1404 |
| 11:23:20 AM | 31.4985 | 780 | 502.2444 | 835 | 658 | 390 | 1404 |
| 11:23:50 AM | 31.374 | 781 | 502.3443 | 836 | 667 | 390 | 1405 |

| | | | | | | | |
|-------------|---------|-----|----------|-----|-----|-----|------|
| 11:24:20 AM | 31.125 | 781 | 502.7624 | 835 | 651 | 390 | 1395 |
| 11:24:49 AM | 31.4985 | 781 | 502.038 | 836 | 650 | 391 | 1405 |
| 11:25:19 AM | 31.374 | 782 | 502.2688 | 835 | 658 | 391 | 1404 |
| 11:25:49 AM | 31.374 | 783 | 502.6003 | 835 | 656 | 390 | 1403 |
| 11:26:18 AM | 31.374 | 782 | 502.5823 | 835 | 660 | 391 | 1401 |
| 11:26:48 AM | 31.2495 | 783 | 502.9413 | 836 | 665 | 390 | 1397 |
| 11:27:18 AM | 31.2495 | 783 | 502.8494 | 835 | 654 | 390 | 1395 |
| 11:27:48 AM | 31.2495 | 783 | 503.0653 | 836 | 652 | 390 | 1397 |
| 11:28:17 AM | 31.125 | 784 | 502.7285 | 836 | 653 | 390 | 1397 |
| 11:28:47 AM | 31.2495 | 784 | 502.6423 | 835 | 661 | 390 | 1398 |
| 11:29:17 AM | 31.125 | 784 | 502.9627 | 835 | 645 | 390 | 1393 |
| 11:29:47 AM | 31.2495 | 784 | 502.6033 | 836 | 660 | 390 | 1395 |
| 11:30:16 AM | 31.0005 | 785 | 502.8742 | 836 | 656 | 389 | 1392 |
| 11:30:46 AM | 31.125 | 785 | 503.1458 | 836 | 652 | 389 | 1391 |
| 11:31:16 AM | 31.0005 | 786 | 503.0882 | 836 | 660 | 389 | 1391 |
| 11:31:45 AM | 31.2495 | 786 | 502.5808 | 836 | 657 | 390 | 1397 |
| 11:32:15 AM | 31.2495 | 787 | 502.83 | 836 | 662 | 390 | 1397 |
| 11:32:45 AM | 31.0005 | 787 | 503.0489 | 836 | 653 | 389 | 1389 |
| 11:33:15 AM | 31.125 | 787 | 503.0924 | 836 | 652 | 389 | 1394 |
| 11:33:44 AM | 31.125 | 787 | 502.656 | 836 | 655 | 390 | 1397 |
| 11:34:14 AM | 31.2495 | 788 | 502.6846 | 836 | 658 | 390 | 1399 |
| 11:34:14 AM | 31.2495 | 788 | 502.6846 | 836 | 655 | 390 | 1399 |
| 11:34:44 AM | 31.125 | 788 | 502.6209 | 837 | 653 | 390 | 1397 |
| 11:35:13 AM | 31.2495 | 788 | 502.4016 | 836 | 643 | 390 | 1398 |
| 11:35:43 AM | 31.0005 | 789 | 502.701 | 836 | 653 | 388 | 1389 |
| 11:36:13 AM | 31.0005 | 790 | 503.2137 | 836 | 654 | 388 | 1388 |
| 11:36:43 AM | 31.0005 | 789 | 503.1874 | 837 | 654 | 389 | 1389 |
| 11:37:12 AM | 31.0005 | 790 | 503.0104 | 837 | 656 | 389 | 1393 |
| 11:37:42 AM | 31.0005 | 791 | 502.8387 | 837 | 654 | 389 | 1393 |
| 11:38:12 AM | 30.876 | 791 | 503.0947 | 836 | 655 | 388 | 1389 |
| 11:38:42 AM | 30.876 | 791 | 503.3091 | 837 | 657 | 386 | 1383 |
| 11:39:11 AM | 30.876 | 791 | 503.1718 | 838 | 651 | 387 | 1385 |
| 11:39:41 AM | 30.876 | 792 | 503.4926 | 838 | 659 | 384 | 1380 |
| 11:40:11 AM | 31.0005 | 792 | 502.8521 | 838 | 659 | 389 | 1390 |
| 11:40:40 AM | 31.0005 | 792 | 502.6781 | 837 | 657 | 389 | 1391 |
| 11:41:10 AM | 30.876 | 793 | 503.2389 | 837 | 657 | 386 | 1384 |
| 11:41:40 AM | 30.7515 | 793 | 503.7791 | 838 | 646 | 383 | 1380 |
| 11:42:10 AM | 30.876 | 793 | 503.6814 | 838 | 652 | 386 | 1385 |
| 11:42:39 AM | 31.0005 | 794 | 503.0996 | 838 | 656 | 389 | 1388 |
| 11:43:09 AM | 30.876 | 794 | 503.5719 | 838 | 659 | 387 | 1384 |
| 11:43:39 AM | 30.876 | 795 | 503.5887 | 838 | 660 | 387 | 1384 |
| 11:44:08 AM | 31.0005 | 795 | 503.2545 | 838 | 655 | 389 | 1391 |
| 11:44:38 AM | 31.125 | 795 | 502.7166 | 837 | 657 | 389 | 1394 |
| 11:45:08 AM | 31.0005 | 795 | 503.1813 | 837 | 650 | 389 | 1395 |
| 11:45:38 AM | 31.0005 | 795 | 503.5197 | 837 | 656 | 388 | 1391 |
| 11:46:07 AM | 31.125 | 796 | 502.9978 | 837 | 641 | 389 | 1393 |
| 11:46:37 AM | 30.876 | 796 | 503.6097 | 837 | 657 | 387 | 1386 |
| 11:47:07 AM | 30.876 | 796 | 503.9186 | 838 | 658 | 384 | 1381 |
| 11:47:36 AM | 30.627 | 797 | 504.5466 | 839 | 652 | 377 | 1374 |
| 11:48:06 AM | 30.627 | 797 | 504.6107 | 839 | 656 | 381 | 1378 |
| 11:48:36 AM | 30.7515 | 797 | 504.3093 | 839 | 660 | 379 | 1375 |
| 11:49:06 AM | 30.7515 | 798 | 504.5206 | 839 | 660 | 381 | 1378 |
| 11:49:35 AM | 30.876 | 798 | 504.04 | 840 | 658 | 385 | 1381 |
| 11:50:05 AM | 30.876 | 799 | 504.3093 | 839 | 654 | 385 | 1382 |
| 11:50:35 AM | 30.876 | 799 | 504.8391 | 839 | 653 | 382 | 1379 |
| 11:51:05 AM | 30.7515 | 799 | 504.8201 | 839 | 657 | 378 | 1374 |
| 11:51:34 AM | 30.7515 | 800 | 504.2333 | 840 | 663 | 381 | 1378 |
| 11:52:04 AM | 30.876 | 800 | 504.1792 | 840 | 651 | 384 | 1380 |
| 11:52:34 AM | 30.7515 | 800 | 504.4302 | 839 | 651 | 383 | 1382 |
| 11:53:03 AM | 30.7515 | 801 | 504.923 | 839 | 662 | 382 | 1379 |
| 11:53:33 AM | 30.7515 | 801 | 505.0444 | 840 | 655 | 380 | 1375 |
| 11:54:03 AM | 31.0005 | 802 | 504.381 | 839 | 652 | 387 | 1384 |
| 11:54:33 AM | 31.0005 | 802 | 504.3997 | 839 | 650 | 386 | 1383 |
| 11:55:02 AM | 31.0005 | 802 | 504.2357 | 839 | 660 | 387 | 1387 |
| 11:55:32 AM | 31.0005 | 803 | 504.106 | 839 | 659 | 388 | 1385 |

| | | | | | | | |
|----------------|-----------------|--------------------|------------------|------------------|------------------|------------------|--------------------|
| 11:56:02 AM | 31.0005 | 802 | 504.1357 | 839 | 659 | 387 | 1384 |
| 11:56:31 AM | 30.876 | 803 | 504.5374 | 839 | 654 | 385 | 1383 |
| 11:57:01 AM | 30.876 | 804 | 504.3993 | 839 | 649 | 384 | 1381 |
| 11:57:31 AM | 30.7515 | 803 | 505.168 | 840 | 660 | 376 | 1371 |
| 11:58:01 AM | 30.627 | 804 | 505.1832 | 840 | 651 | 375 | 1370 |
| 11:58:01 AM | 30.627 | 804 | 505.1832 | 840 | 651 | 375 | 1370 |
| 11:58:30 AM | 30.7515 | 804 | 505.1351 | 841 | 658 | 379 | 1375 |
| Average | 31.46591 | 773.6649215 | 499.96925 | 834.41885 | 656.20942 | 390.94764 | 1430.560209 |

Montrose corrected - GE Trend Test 1 Unit 1

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | | BTU/SCF (68F) | MM BTU/Hr | | BTU/KWH |
|----------|-----------|----------|--------------------------|------------------|--|---------------|------------|--------|-----------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | | HHV | Heat Input | Kw | Heat Rate |
| 143.1 | 4,990 | 3.78 | 5.466 | 1.447 | | 1,064 | 318 | 32,246 | 9,876 |
| 143.2 | 4,995 | 3.78 | 5.466 | 1.445 | | 1,064 | 319 | 32,246 | 9,885 |
| 143.3 | 4,998 | 3.78 | 5.466 | 1.444 | | 1,064 | 319 | 32,246 | 9,892 |
| 143.2 | 4,995 | 3.78 | 5.466 | 1.445 | | 1,064 | 319 | 32,246 | 9,885 |
| 142.9 | 4,988 | 3.78 | 5.452 | 1.444 | | 1,064 | 318 | 32,246 | 9,872 |
| 142.8 | 4,985 | 3.77 | 5.466 | 1.448 | | 1,064 | 318 | 32,121 | 9,903 |
| 142.4 | 4,973 | 3.76 | 5.466 | 1.452 | | 1,064 | 317 | 32,121 | 9,879 |
| 142.5 | 4,977 | 3.77 | 5.466 | 1.450 | | 1,064 | 318 | 32,121 | 9,889 |
| 142.6 | 4,976 | 3.77 | 5.452 | 1.447 | | 1,064 | 318 | 32,246 | 9,848 |
| 142.7 | 4,982 | 3.77 | 5.452 | 1.445 | | 1,064 | 318 | 32,121 | 9,897 |
| 142.6 | 4,979 | 3.77 | 5.466 | 1.450 | | 1,064 | 318 | 32,246 | 9,854 |
| 143.1 | 4,994 | 3.78 | 5.452 | 1.442 | | 1,064 | 319 | 32,246 | 9,885 |
| 142.7 | 4,982 | 3.77 | 5.452 | 1.445 | | 1,064 | 318 | 32,121 | 9,898 |
| 142.8 | 4,985 | 3.77 | 5.452 | 1.444 | | 1,064 | 318 | 32,121 | 9,904 |
| 142.3 | 4,973 | 3.77 | 5.452 | 1.448 | | 1,064 | 317 | 31,997 | 9,919 |
| 142.8 | 4,985 | 3.77 | 5.466 | 1.448 | | 1,064 | 318 | 32,121 | 9,905 |
| 142.9 | 4,987 | 3.78 | 5.466 | 1.448 | | 1,064 | 318 | 32,121 | 9,907 |
| 143.1 | 4,993 | 3.78 | 5.466 | 1.446 | | 1,064 | 319 | 32,121 | 9,920 |
| 142.9 | 4,988 | 3.78 | 5.452 | 1.444 | | 1,064 | 318 | 32,121 | 9,911 |
| 143.7 | 5,011 | 3.79 | 5.466 | 1.441 | | 1,064 | 320 | 32,121 | 9,956 |
| 144.7 | 5,043 | 3.82 | 5.466 | 1.431 | | 1,064 | 322 | 32,121 | 10,020 |
| 146.1 | 5,083 | 3.85 | 5.494 | 1.427 | | 1,064 | 324 | 32,121 | 10,099 |
| 147.6 | 5,125 | 3.88 | 5.494 | 1.416 | | 1,064 | 327 | 32,121 | 10,183 |
| 149.9 | 5,192 | 3.93 | 5.522 | 1.405 | | 1,064 | 331 | 32,121 | 10,316 |
| 153.0 | 5,281 | 4.00 | 5.549 | 1.388 | | 1,064 | 337 | 32,121 | 10,492 |
| 155.1 | 5,334 | 4.04 | 5.563 | 1.378 | | 1,064 | 340 | 31,997 | 10,639 |
| 157.4 | 5,394 | 4.08 | 5.563 | 1.362 | | 1,064 | 344 | 31,997 | 10,758 |
| 160.6 | 5,482 | 4.15 | 5.563 | 1.340 | | 1,064 | 350 | 31,872 | 10,977 |
| 161.3 | 5,502 | 4.17 | 5.577 | 1.339 | | 1,064 | 351 | 31,623 | 11,103 |
| 161.8 | 5,519 | 4.18 | 5.577 | 1.335 | | 1,064 | 352 | 31,374 | 11,226 |
| 161.9 | 5,521 | 4.18 | 5.563 | 1.331 | | 1,064 | 352 | 31,374 | 11,230 |
| 161.8 | 5,519 | 4.18 | 5.577 | 1.335 | | 1,064 | 352 | 31,499 | 11,182 |
| 162.0 | 5,527 | 4.19 | 5.577 | 1.333 | | 1,064 | 353 | 31,374 | 11,243 |
| 162.0 | 5,527 | 4.19 | 5.577 | 1.333 | | 1,064 | 353 | 31,374 | 11,243 |
| 161.6 | 5,517 | 4.18 | 5.563 | 1.332 | | 1,064 | 352 | 31,499 | 11,177 |
| 161.5 | 5,513 | 4.17 | 5.577 | 1.336 | | 1,064 | 352 | 31,748 | 11,082 |
| 161.5 | 5,512 | 4.17 | 5.563 | 1.333 | | 1,064 | 352 | 31,748 | 11,080 |
| 161.4 | 5,513 | 4.17 | 5.563 | 1.333 | | 1,064 | 352 | 31,872 | 11,038 |
| 159.9 | 5,470 | 4.14 | 5.563 | 1.343 | | 1,064 | 349 | 31,872 | 10,953 |
| 158.3 | 5,425 | 4.11 | 5.563 | 1.354 | | 1,064 | 346 | 31,997 | 10,820 |
| 156.8 | 5,385 | 4.08 | 5.563 | 1.365 | | 1,064 | 344 | 31,872 | 10,782 |
| 156.9 | 5,387 | 4.08 | 5.563 | 1.364 | | 1,064 | 344 | 31,997 | 10,745 |
| 156.9 | 5,387 | 4.08 | 5.563 | 1.364 | | 1,064 | 344 | 31,997 | 10,745 |
| 156.6 | 5,381 | 4.07 | 5.563 | 1.365 | | 1,064 | 343 | 32,121 | 10,691 |
| 155.5 | 5,351 | 4.05 | 5.563 | 1.373 | | 1,064 | 341 | 31,997 | 10,673 |
| 154.3 | 5,319 | 4.03 | 5.549 | 1.378 | | 1,064 | 339 | 31,997 | 10,608 |
| 152.8 | 5,278 | 4.00 | 5.536 | 1.385 | | 1,064 | 337 | 32,121 | 10,487 |
| 151.0 | 5,228 | 3.96 | 5.536 | 1.398 | | 1,064 | 334 | 32,121 | 10,388 |
| 149.4 | 5,184 | 3.93 | 5.508 | 1.403 | | 1,064 | 331 | 32,121 | 10,299 |
| 147.7 | 5,135 | 3.89 | 5.494 | 1.413 | | 1,064 | 328 | 31,997 | 10,242 |
| 146.4 | 5,098 | 3.86 | 5.480 | 1.420 | | 1,064 | 325 | 32,121 | 10,129 |
| 144.7 | 5,050 | 3.82 | 5.466 | 1.430 | | 1,064 | 322 | 31,872 | 10,112 |
| 143.9 | 5,030 | 3.81 | 5.466 | 1.435 | | 1,064 | 321 | 31,872 | 10,071 |
| 143.1 | 5,002 | 3.79 | 5.452 | 1.439 | | 1,064 | 319 | 31,997 | 9,977 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 143.0 | 5,001 | 3.79 | 5.452 | 1.440 | 1,064 | 319 | 31,872 | 10,013 |
| 142.2 | 4,977 | 3.77 | 5.452 | 1.447 | 1,064 | 318 | 31,872 | 9,965 |
| 142.1 | 4,973 | 3.77 | 5.452 | 1.448 | 1,064 | 317 | 31,748 | 9,997 |
| 142.1 | 4,976 | 3.77 | 5.452 | 1.447 | 1,064 | 318 | 31,748 | 10,002 |
| 141.9 | 4,972 | 3.76 | 5.452 | 1.448 | 1,064 | 317 | 31,748 | 9,994 |
| 142.3 | 4,981 | 3.77 | 5.452 | 1.446 | 1,064 | 318 | 31,872 | 9,974 |
| 141.9 | 4,967 | 3.76 | 5.452 | 1.450 | 1,064 | 317 | 31,872 | 9,946 |
| 142.2 | 4,979 | 3.77 | 5.452 | 1.446 | 1,064 | 318 | 31,872 | 9,970 |
| 141.7 | 4,963 | 3.76 | 5.452 | 1.451 | 1,064 | 317 | 31,748 | 9,977 |
| 141.2 | 4,951 | 3.75 | 5.452 | 1.454 | 1,064 | 316 | 31,623 | 9,992 |
| 140.9 | 4,942 | 3.74 | 5.438 | 1.453 | 1,064 | 315 | 31,623 | 9,972 |
| 141.5 | 4,962 | 3.76 | 5.452 | 1.451 | 1,064 | 317 | 31,748 | 9,974 |
| 140.9 | 4,943 | 3.74 | 5.438 | 1.453 | 1,064 | 315 | 31,623 | 9,975 |
| 140.8 | 4,939 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,623 | 9,966 |
| 140.9 | 4,945 | 3.74 | 5.438 | 1.453 | 1,064 | 316 | 31,623 | 9,978 |
| 140.7 | 4,940 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,623 | 9,970 |
| 141.1 | 4,954 | 3.75 | 5.438 | 1.450 | 1,064 | 316 | 31,623 | 9,998 |
| 141.4 | 4,961 | 3.76 | 5.452 | 1.451 | 1,064 | 317 | 31,748 | 9,973 |
| 141.5 | 4,966 | 3.76 | 5.452 | 1.450 | 1,064 | 317 | 31,872 | 9,944 |
| 141.1 | 4,955 | 3.75 | 5.452 | 1.453 | 1,064 | 316 | 31,623 | 10,000 |
| 140.6 | 4,940 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,499 | 10,009 |
| 140.4 | 4,932 | 3.73 | 5.424 | 1.453 | 1,064 | 315 | 31,499 | 9,992 |
| 140.3 | 4,932 | 3.73 | 5.438 | 1.456 | 1,064 | 315 | 31,499 | 9,993 |
| 140.8 | 4,945 | 3.74 | 5.438 | 1.452 | 1,064 | 316 | 31,623 | 9,980 |
| 140.8 | 4,946 | 3.74 | 5.438 | 1.452 | 1,064 | 316 | 31,623 | 9,981 |
| 140.4 | 4,933 | 3.74 | 5.438 | 1.456 | 1,064 | 315 | 31,499 | 9,995 |
| 140.7 | 4,943 | 3.74 | 5.438 | 1.453 | 1,064 | 315 | 31,623 | 9,976 |
| 140.7 | 4,940 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,623 | 9,968 |
| 141.0 | 4,952 | 3.75 | 5.452 | 1.454 | 1,064 | 316 | 31,623 | 9,994 |
| 140.7 | 4,940 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,623 | 9,970 |
| 140.9 | 4,948 | 3.75 | 5.438 | 1.452 | 1,064 | 316 | 31,623 | 9,985 |
| 141.0 | 4,951 | 3.75 | 5.452 | 1.454 | 1,064 | 316 | 31,623 | 9,992 |
| 141.3 | 4,961 | 3.76 | 5.452 | 1.452 | 1,064 | 317 | 31,623 | 10,011 |
| 140.7 | 4,943 | 3.74 | 5.438 | 1.453 | 1,064 | 315 | 31,499 | 10,016 |
| 141.9 | 4,981 | 3.77 | 5.452 | 1.446 | 1,064 | 318 | 31,748 | 10,012 |
| 142.3 | 4,991 | 3.78 | 5.452 | 1.443 | 1,064 | 318 | 31,623 | 10,071 |
| 142.8 | 5,006 | 3.79 | 5.466 | 1.442 | 1,064 | 319 | 31,623 | 10,102 |
| 142.8 | 5,006 | 3.79 | 5.466 | 1.442 | 1,064 | 319 | 31,623 | 10,102 |
| 145.3 | 5,080 | 3.85 | 5.466 | 1.421 | 1,064 | 324 | 31,623 | 10,251 |
| 147.9 | 5,153 | 3.90 | 5.494 | 1.408 | 1,064 | 329 | 31,499 | 10,440 |
| 150.1 | 5,217 | 3.95 | 5.522 | 1.398 | 1,064 | 333 | 31,623 | 10,527 |
| 150.0 | 5,213 | 3.95 | 5.522 | 1.399 | 1,064 | 333 | 31,499 | 10,562 |
| 147.9 | 5,154 | 3.90 | 5.494 | 1.408 | 1,064 | 329 | 31,623 | 10,402 |
| 145.8 | 5,089 | 3.85 | 5.480 | 1.422 | 1,064 | 325 | 31,623 | 10,270 |
| 144.2 | 5,043 | 3.82 | 5.466 | 1.432 | 1,064 | 322 | 31,499 | 10,217 |
| 142.2 | 4,985 | 3.77 | 5.452 | 1.445 | 1,064 | 318 | 31,499 | 10,099 |
| 141.7 | 4,971 | 3.76 | 5.452 | 1.449 | 1,064 | 317 | 31,499 | 10,071 |
| 141.4 | 4,963 | 3.76 | 5.438 | 1.447 | 1,064 | 317 | 31,499 | 10,055 |
| 140.8 | 4,946 | 3.74 | 5.438 | 1.452 | 1,064 | 316 | 31,499 | 10,021 |
| 140.5 | 4,939 | 3.74 | 5.424 | 1.451 | 1,064 | 315 | 31,374 | 10,045 |
| 139.8 | 4,915 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,250 | 10,038 |
| 139.3 | 4,905 | 3.71 | 5.410 | 1.457 | 1,064 | 313 | 31,125 | 10,057 |
| 139.9 | 4,921 | 3.73 | 5.424 | 1.456 | 1,064 | 314 | 31,250 | 10,050 |
| 139.2 | 4,900 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,125 | 10,046 |
| 139.2 | 4,901 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,125 | 10,049 |
| 139.2 | 4,902 | 3.71 | 5.424 | 1.462 | 1,064 | 313 | 31,250 | 10,010 |
| 140.1 | 4,930 | 3.73 | 5.424 | 1.453 | 1,064 | 315 | 31,374 | 10,029 |
| 139.9 | 4,923 | 3.73 | 5.424 | 1.455 | 1,064 | 314 | 31,250 | 10,054 |
| 140.8 | 4,952 | 3.75 | 5.438 | 1.451 | 1,064 | 316 | 31,499 | 10,032 |
| 140.5 | 4,940 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,374 | 10,049 |
| 140.4 | 4,939 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,374 | 10,045 |
| 140.3 | 4,938 | 3.74 | 5.438 | 1.455 | 1,064 | 315 | 31,374 | 10,043 |
| 140.4 | 4,939 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,374 | 10,047 |
| 140.4 | 4,937 | 3.74 | 5.424 | 1.451 | 1,064 | 315 | 31,499 | 10,003 |
| 140.5 | 4,942 | 3.74 | 5.424 | 1.450 | 1,064 | 315 | 31,374 | 10,052 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 139.5 | 4,911 | 3.72 | 5.424 | 1.459 | 1,064 | 313 | 31,125 | 10,068 |
| 140.5 | 4,939 | 3.74 | 5.438 | 1.454 | 1,064 | 315 | 31,499 | 10,006 |
| 140.4 | 4,938 | 3.74 | 5.438 | 1.455 | 1,064 | 315 | 31,374 | 10,043 |
| 140.3 | 4,937 | 3.74 | 5.424 | 1.451 | 1,064 | 315 | 31,374 | 10,043 |
| 140.1 | 4,930 | 3.73 | 5.438 | 1.457 | 1,064 | 315 | 31,374 | 10,028 |
| 139.7 | 4,919 | 3.72 | 5.424 | 1.456 | 1,064 | 314 | 31,250 | 10,046 |
| 139.5 | 4,911 | 3.72 | 5.424 | 1.459 | 1,064 | 313 | 31,250 | 10,030 |
| 139.7 | 4,921 | 3.73 | 5.424 | 1.456 | 1,064 | 314 | 31,250 | 10,049 |
| 139.7 | 4,917 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,125 | 10,082 |
| 139.8 | 4,920 | 3.73 | 5.424 | 1.456 | 1,064 | 314 | 31,250 | 10,048 |
| 139.3 | 4,905 | 3.71 | 5.424 | 1.460 | 1,064 | 313 | 31,125 | 10,058 |
| 139.5 | 4,909 | 3.72 | 5.424 | 1.459 | 1,064 | 313 | 31,250 | 10,025 |
| 139.2 | 4,901 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,001 | 10,089 |
| 139.1 | 4,900 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,125 | 10,047 |
| 139.1 | 4,900 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,001 | 10,086 |
| 139.7 | 4,916 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,250 | 10,039 |
| 139.7 | 4,918 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,250 | 10,044 |
| 138.9 | 4,892 | 3.70 | 5.410 | 1.461 | 1,064 | 312 | 31,001 | 10,071 |
| 139.4 | 4,910 | 3.72 | 5.410 | 1.455 | 1,064 | 313 | 31,125 | 10,068 |
| 139.7 | 4,917 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,125 | 10,081 |
| 139.9 | 4,924 | 3.73 | 5.424 | 1.455 | 1,064 | 314 | 31,250 | 10,056 |
| 139.9 | 4,924 | 3.73 | 5.424 | 1.455 | 1,064 | 314 | 31,250 | 10,056 |
| 139.7 | 4,916 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,125 | 10,080 |
| 139.8 | 4,918 | 3.72 | 5.424 | 1.457 | 1,064 | 314 | 31,250 | 10,043 |
| 138.9 | 4,889 | 3.70 | 5.396 | 1.458 | 1,064 | 312 | 31,001 | 10,064 |
| 138.8 | 4,890 | 3.70 | 5.396 | 1.457 | 1,064 | 312 | 31,001 | 10,067 |
| 138.9 | 4,894 | 3.71 | 5.410 | 1.460 | 1,064 | 312 | 31,001 | 10,074 |
| 139.3 | 4,906 | 3.71 | 5.410 | 1.457 | 1,064 | 313 | 31,001 | 10,099 |
| 139.3 | 4,904 | 3.71 | 5.410 | 1.457 | 1,064 | 313 | 31,001 | 10,096 |
| 138.9 | 4,893 | 3.70 | 5.396 | 1.457 | 1,064 | 312 | 30,876 | 10,112 |
| 138.3 | 4,874 | 3.69 | 5.369 | 1.455 | 1,064 | 311 | 30,876 | 10,073 |
| 138.5 | 4,879 | 3.69 | 5.383 | 1.457 | 1,064 | 311 | 30,876 | 10,085 |
| 138.0 | 4,865 | 3.68 | 5.341 | 1.450 | 1,064 | 310 | 30,876 | 10,055 |
| 139.0 | 4,894 | 3.71 | 5.410 | 1.460 | 1,064 | 312 | 31,001 | 10,074 |
| 139.1 | 4,896 | 3.71 | 5.410 | 1.460 | 1,064 | 312 | 31,001 | 10,078 |
| 138.4 | 4,876 | 3.69 | 5.369 | 1.454 | 1,064 | 311 | 30,876 | 10,079 |
| 138.0 | 4,867 | 3.69 | 5.327 | 1.445 | 1,064 | 311 | 30,752 | 10,101 |
| 138.5 | 4,884 | 3.70 | 5.369 | 1.452 | 1,064 | 312 | 30,876 | 10,095 |
| 138.8 | 4,889 | 3.70 | 5.410 | 1.462 | 1,064 | 312 | 31,001 | 10,065 |
| 138.4 | 4,880 | 3.69 | 5.383 | 1.457 | 1,064 | 311 | 30,876 | 10,085 |
| 138.4 | 4,880 | 3.69 | 5.383 | 1.457 | 1,064 | 311 | 30,876 | 10,086 |
| 139.1 | 4,901 | 3.71 | 5.410 | 1.458 | 1,064 | 313 | 31,001 | 10,089 |
| 139.4 | 4,907 | 3.72 | 5.410 | 1.456 | 1,064 | 313 | 31,125 | 10,060 |
| 139.5 | 4,915 | 3.72 | 5.410 | 1.454 | 1,064 | 314 | 31,001 | 10,117 |
| 139.1 | 4,904 | 3.71 | 5.396 | 1.453 | 1,064 | 313 | 31,001 | 10,095 |
| 139.3 | 4,906 | 3.71 | 5.410 | 1.457 | 1,064 | 313 | 31,125 | 10,059 |
| 138.6 | 4,887 | 3.70 | 5.383 | 1.455 | 1,064 | 312 | 30,876 | 10,101 |
| 138.1 | 4,872 | 3.69 | 5.341 | 1.448 | 1,064 | 311 | 30,876 | 10,070 |
| 137.4 | 4,853 | 3.67 | 5.243 | 1.427 | 1,064 | 310 | 30,627 | 10,113 |
| 137.8 | 4,868 | 3.69 | 5.299 | 1.438 | 1,064 | 311 | 30,627 | 10,144 |
| 137.5 | 4,855 | 3.68 | 5.271 | 1.434 | 1,064 | 310 | 30,752 | 10,075 |
| 137.8 | 4,867 | 3.69 | 5.299 | 1.438 | 1,064 | 311 | 30,752 | 10,101 |
| 138.1 | 4,873 | 3.69 | 5.355 | 1.451 | 1,064 | 311 | 30,876 | 10,073 |
| 138.2 | 4,879 | 3.69 | 5.355 | 1.449 | 1,064 | 311 | 30,876 | 10,085 |
| 137.9 | 4,874 | 3.69 | 5.313 | 1.440 | 1,064 | 311 | 30,876 | 10,074 |
| 137.4 | 4,856 | 3.68 | 5.257 | 1.430 | 1,064 | 310 | 30,752 | 10,077 |
| 137.8 | 4,865 | 3.68 | 5.299 | 1.439 | 1,064 | 310 | 30,752 | 10,095 |
| 138.0 | 4,871 | 3.69 | 5.341 | 1.448 | 1,064 | 311 | 30,876 | 10,068 |
| 138.2 | 4,881 | 3.70 | 5.327 | 1.442 | 1,064 | 311 | 30,752 | 10,128 |
| 137.9 | 4,875 | 3.69 | 5.313 | 1.440 | 1,064 | 311 | 30,752 | 10,116 |
| 137.5 | 4,862 | 3.68 | 5.285 | 1.436 | 1,064 | 310 | 30,752 | 10,089 |
| 138.4 | 4,887 | 3.70 | 5.383 | 1.455 | 1,064 | 312 | 31,001 | 10,061 |
| 138.3 | 4,884 | 3.70 | 5.369 | 1.452 | 1,064 | 312 | 31,001 | 10,054 |
| 138.7 | 4,896 | 3.71 | 5.383 | 1.452 | 1,064 | 312 | 31,001 | 10,080 |
| 138.5 | 4,888 | 3.70 | 5.396 | 1.458 | 1,064 | 312 | 31,001 | 10,062 |

| | | | | | | | | |
|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| 138.4 | 4,885 | 3.70 | 5.383 | 1.455 | 1,064 | 312 | 31,001 | 10,056 |
| 138.3 | 4,885 | 3.70 | 5.355 | 1.448 | 1,064 | 312 | 30,876 | 10,097 |
| 138.1 | 4,877 | 3.69 | 5.341 | 1.446 | 1,064 | 311 | 30,876 | 10,080 |
| 137.1 | 4,849 | 3.67 | 5.230 | 1.425 | 1,064 | 309 | 30,752 | 10,062 |
| 137.0 | 4,845 | 3.67 | 5.216 | 1.422 | 1,064 | 309 | 30,627 | 10,096 |
| 137.0 | 4,845 | 3.67 | 5.216 | 1.422 | 1,064 | 309 | 30,627 | 10,096 |
| 137.5 | 4,862 | 3.68 | 5.271 | 1.432 | 1,064 | 310 | 30,752 | 10,091 |
| 143.056021 | 5006.549427 | 3.790725048 | 5.437430148 | 1.435547483 | 1063.616864 | 319.503024 | 31465.90838 | 10153.51927 |
| 187643.9801 | | | | | | | | |

Montrose corrected - GE Trend Test 2 Unit 1

| DATE TIME | MW | TE_2024 | PGASA | TE_2037 | PT_2074A | FT_2003 | FT_2000 |
|-----------|----|---------|-------|---------|----------|---------|---------|
| #!Min | 10 | 0 | 410 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | F | | gpm | ACFM |

| #!Description | MW SELECT | FUEL SUPPLY TEMPERATURE A | GAS FUEL SUPPLY PRESSURE | DE-MIN WATER SUPPLY TEMP(x10) | DE-MIN WATER SUPPLY PRESS(x10) | NOX WATER INJECTION FLOW(x10) | GAS FLOW FT2000(x10) |
|---------------|-----------|---------------------------|--------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------|
| 12:19:19 PM | 30.5025 | 814 | 506.4669 | 843 | 663 | 367 | 1363 |
| 12:19:48 PM | 30.5025 | 815 | 506.4238 | 843 | 659 | 370 | 1364 |
| 12:20:18 PM | 30.627 | 815 | 506.3234 | 844 | 660 | 373 | 1367 |
| 12:20:48 PM | 30.5025 | 815 | 506.7064 | 844 | 659 | 369 | 1363 |
| 12:21:17 PM | 30.5025 | 815 | 506.6 | 844 | 642 | 368 | 1362 |
| 12:21:47 PM | 30.627 | 816 | 506.2277 | 844 | 654 | 376 | 1370 |
| 12:21:47 PM | 30.627 | 816 | 506.2277 | 844 | 660 | 376 | 1370 |
| 12:22:17 PM | 30.7515 | 817 | 505.9683 | 843 | 657 | 379 | 1374 |
| 12:22:47 PM | 30.627 | 817 | 506.2856 | 842 | 662 | 375 | 1369 |
| 12:23:16 PM | 30.5025 | 817 | 506.3303 | 843 | 650 | 371 | 1365 |
| 12:23:46 PM | 30.5025 | 817 | 506.6431 | 844 | 660 | 369 | 1363 |
| 12:24:16 PM | 30.5025 | 817 | 506.7106 | 844 | 659 | 370 | 1364 |
| 12:24:46 PM | 30.5025 | 817 | 506.8422 | 844 | 648 | 367 | 1360 |
| 12:25:15 PM | 30.5025 | 818 | 506.84 | 844 | 658 | 369 | 1364 |
| 12:25:45 PM | 30.5025 | 818 | 506.7297 | 845 | 649 | 370 | 1363 |
| 12:26:15 PM | 30.5025 | 818 | 506.4177 | 845 | 661 | 372 | 1367 |
| 12:26:44 PM | 30.378 | 818 | 506.909 | 845 | 656 | 367 | 1360 |
| 12:27:14 PM | 30.5025 | 819 | 506.6469 | 845 | 660 | 368 | 1362 |
| 12:27:44 PM | 30.378 | 819 | 506.5283 | 845 | 659 | 367 | 1361 |
| 12:28:14 PM | 30.5025 | 819 | 506.3536 | 845 | 638 | 373 | 1367 |
| 12:28:43 PM | 30.378 | 820 | 506.5695 | 845 | 649 | 369 | 1364 |
| 12:29:13 PM | 30.378 | 819 | 506.5195 | 845 | 660 | 368 | 1363 |
| 12:29:43 PM | 30.5025 | 820 | 506.9075 | 845 | 659 | 368 | 1363 |
| 12:30:12 PM | 30.378 | 821 | 506.9734 | 845 | 662 | 365 | 1359 |
| 12:30:42 PM | 30.129 | 820 | 507.7944 | 845 | 637 | 356 | 1348 |
| 12:31:12 PM | 30.2535 | 821 | 507.3206 | 847 | 647 | 361 | 1352 |
| 12:31:42 PM | 30.129 | 821 | 507.5887 | 848 | 671 | 355 | 1347 |
| 12:32:11 PM | 30.129 | 822 | 507.6014 | 848 | 652 | 358 | 1350 |
| 12:32:41 PM | 30.0045 | 822 | 507.8913 | 848 | 665 | 352 | 1342 |
| 12:33:11 PM | 30.129 | 823 | 507.9786 | 849 | 665 | 352 | 1344 |
| 12:33:40 PM | 30.129 | 822 | 507.7112 | 849 | 659 | 356 | 1350 |
| 12:34:10 PM | 30.2535 | 823 | 507.1905 | 849 | 662 | 360 | 1352 |
| 12:34:40 PM | 30.2535 | 823 | 507.5114 | 848 | 660 | 361 | 1353 |
| 12:35:10 PM | 30.2535 | 824 | 507.5884 | 848 | 659 | 359 | 1352 |
| 12:35:39 PM | 30.0045 | 824 | 508.0141 | 848 | 655 | 353 | 1345 |
| 12:36:09 PM | 30.2535 | 824 | 507.6193 | 849 | 660 | 359 | 1350 |
| 12:36:39 PM | 30.2535 | 824 | 507.8089 | 849 | 676 | 358 | 1352 |
| 12:37:09 PM | 30.129 | 825 | 507.7703 | 849 | 657 | 356 | 1348 |
| 12:37:38 PM | 30.129 | 825 | 507.9786 | 849 | 652 | 354 | 1345 |
| 12:38:08 PM | 30.2535 | 825 | 507.6711 | 849 | 655 | 358 | 1349 |
| 12:38:38 PM | 30.2535 | 826 | 507.279 | 849 | 664 | 363 | 1357 |
| 12:39:07 PM | 30.2535 | 826 | 507.5582 | 849 | 659 | 362 | 1357 |
| 12:39:37 PM | 30.2535 | 826 | 507.451 | 849 | 677 | 360 | 1353 |
| 12:40:07 PM | 30.2535 | 827 | 507.501 | 849 | 652 | 361 | 1353 |
| 12:40:37 PM | 30.2535 | 827 | 507.9016 | 849 | 665 | 360 | 1354 |
| 12:41:06 PM | 30.0045 | 827 | 509.0109 | 849 | 667 | 349 | 1338 |
| 12:41:36 PM | 30.0045 | 827 | 507.8829 | 850 | 645 | 352 | 1339 |
| 12:42:06 PM | 30.129 | 828 | 507.369 | 850 | 651 | 355 | 1348 |
| 12:42:35 PM | 30.2535 | 828 | 506.9792 | 850 | 660 | 359 | 1354 |
| 12:43:05 PM | 30.2535 | 828 | 506.7316 | 849 | 660 | 362 | 1359 |
| 12:43:35 PM | 30.378 | 829 | 505.8309 | 849 | 648 | 368 | 1364 |
| 12:44:05 PM | 30.378 | 829 | 506.2342 | 848 | 666 | 370 | 1366 |
| 12:44:34 PM | 30.2535 | 829 | 506.5733 | 848 | 652 | 361 | 1358 |
| 12:45:04 PM | 30.2535 | 830 | 506.3127 | 848 | 664 | 363 | 1358 |
| 12:45:34 PM | 30.2535 | 830 | 506.3341 | 849 | 666 | 359 | 1354 |
| 12:45:34 PM | 30.2535 | 830 | 506.3482 | 849 | 654 | 359 | 1354 |
| 12:46:03 PM | 30.378 | 830 | 506.13 | 849 | 655 | 367 | 1361 |

| | | | | | | | |
|-------------|---------|-----|----------|-----|-----|-----|------|
| 12:46:33 PM | 30.378 | 830 | 506.4482 | 848 | 658 | 364 | 1362 |
| 12:47:03 PM | 30.2535 | 830 | 506.0786 | 848 | 656 | 363 | 1359 |
| 12:47:33 PM | 30.2535 | 831 | 506.0308 | 848 | 645 | 367 | 1362 |
| 12:48:02 PM | 30.2535 | 831 | 506.1361 | 848 | 652 | 360 | 1355 |
| 12:48:32 PM | 30.378 | 831 | 506.204 | 848 | 659 | 365 | 1361 |
| 12:49:02 PM | 30.129 | 831 | 506.6164 | 848 | 661 | 359 | 1356 |
| 12:49:32 PM | 30.129 | 831 | 506.3646 | 848 | 645 | 359 | 1354 |
| 12:50:01 PM | 30.129 | 832 | 506.4482 | 849 | 657 | 358 | 1353 |
| 12:50:31 PM | 30.378 | 832 | 505.8977 | 849 | 651 | 368 | 1365 |
| 12:51:01 PM | 30.378 | 832 | 505.5979 | 848 | 640 | 368 | 1365 |
| 12:51:30 PM | 30.378 | 833 | 505.1378 | 848 | 657 | 370 | 1367 |
| 12:52:00 PM | 30.378 | 832 | 505.5135 | 847 | 659 | 368 | 1365 |
| 12:52:30 PM | 30.2535 | 833 | 505.6993 | 847 | 666 | 364 | 1362 |
| 12:53:00 PM | 30.129 | 832 | 506.3029 | 848 | 661 | 357 | 1353 |
| 12:53:29 PM | 30.129 | 833 | 506.3387 | 848 | 661 | 359 | 1358 |
| 12:53:59 PM | 30.129 | 833 | 506.338 | 849 | 664 | 356 | 1350 |
| 12:54:29 PM | 30.0045 | 834 | 506.579 | 850 | 657 | 354 | 1348 |
| 12:54:58 PM | 30.129 | 834 | 506.4977 | 850 | 666 | 358 | 1355 |
| 12:55:28 PM | 30.2535 | 834 | 505.9305 | 850 | 658 | 362 | 1358 |
| 12:55:58 PM | 30.129 | 834 | 506.2624 | 850 | 650 | 359 | 1356 |
| 12:56:28 PM | 30.129 | 834 | 506.1628 | 849 | 658 | 359 | 1355 |
| 12:56:57 PM | 30.129 | 834 | 505.9652 | 850 | 651 | 358 | 1353 |
| 12:57:27 PM | 30.2535 | 835 | 505.7493 | 850 | 660 | 363 | 1360 |
| 12:57:57 PM | 30.378 | 835 | 505.2984 | 849 | 664 | 367 | 1364 |
| 12:58:26 PM | 30.2535 | 835 | 506.2475 | 849 | 653 | 360 | 1358 |
| 12:58:56 PM | 30.2535 | 836 | 506.1098 | 849 | 678 | 364 | 1363 |
| 12:59:26 PM | 30.2535 | 835 | 506.2128 | 849 | 663 | 360 | 1358 |
| 12:59:56 PM | 30.129 | 836 | 506.1762 | 849 | 660 | 360 | 1357 |
| 1:00:25 PM | 30.0045 | 836 | 506.0171 | 850 | 659 | 358 | 1355 |
| 1:00:55 PM | 30.129 | 836 | 506.2822 | 850 | 665 | 356 | 1351 |
| 1:01:25 PM | 30.129 | 836 | 506.1346 | 850 | 650 | 358 | 1355 |
| 1:01:55 PM | 30.0045 | 837 | 506.6393 | 850 | 662 | 355 | 1350 |
| 1:02:24 PM | 30.129 | 837 | 506.5923 | 851 | 663 | 356 | 1350 |
| 1:02:54 PM | 30.0045 | 837 | 506.5214 | 850 | 651 | 355 | 1349 |
| 1:03:24 PM | 29.88 | 837 | 506.8083 | 851 | 660 | 350 | 1344 |
| 1:03:53 PM | 30.0045 | 838 | 506.4123 | 852 | 660 | 353 | 1346 |
| 1:04:23 PM | 30.0045 | 838 | 506.5462 | 851 | 662 | 352 | 1348 |
| 1:04:53 PM | 29.631 | 838 | 507.2988 | 851 | 671 | 347 | 1335 |
| 1:05:23 PM | 29.88 | 838 | 507.0322 | 852 | 650 | 350 | 1342 |
| 1:05:52 PM | 30.0045 | 839 | 506.827 | 853 | 649 | 355 | 1349 |
| 1:06:22 PM | 29.88 | 839 | 507.0547 | 853 | 652 | 349 | 1342 |
| 1:06:52 PM | 29.7555 | 839 | 506.9692 | 852 | 638 | 347 | 1338 |
| 1:07:21 PM | 29.88 | 839 | 506.661 | 853 | 671 | 350 | 1344 |
| 1:07:51 PM | 30.0045 | 840 | 506.5195 | 852 | 666 | 356 | 1349 |
| 1:08:21 PM | 30.0045 | 840 | 506.7602 | 852 | 646 | 353 | 1345 |
| 1:08:51 PM | 30.0045 | 840 | 506.5496 | 852 | 653 | 355 | 1352 |
| 1:09:20 PM | 29.631 | 840 | 507.4061 | 852 | 673 | 345 | 1333 |
| 1:09:50 PM | 29.7555 | 841 | 507.5689 | 853 | 645 | 345 | 1333 |
| 1:10:20 PM | 29.631 | 841 | 507.5792 | 854 | 672 | 343 | 1330 |
| 1:10:49 PM | 29.631 | 842 | 507.7352 | 854 | 664 | 341 | 1326 |
| 1:11:19 PM | 29.88 | 842 | 507.1581 | 855 | 651 | 351 | 1339 |
| 1:11:49 PM | 30.0045 | 842 | 507.1638 | 853 | 648 | 351 | 1345 |
| 1:12:19 PM | 30.0045 | 842 | 507.0829 | 853 | 647 | 354 | 1349 |
| 1:12:48 PM | 29.88 | 843 | 507.4556 | 852 | 668 | 350 | 1344 |
| 1:13:18 PM | 29.631 | 843 | 508.148 | 853 | 679 | 344 | 1331 |
| 1:13:48 PM | 29.631 | 843 | 508.1045 | 854 | 674 | 343 | 1329 |
| 1:14:18 PM | 29.631 | 844 | 508.2945 | 854 | 653 | 345 | 1332 |
| 1:14:47 PM | 29.7555 | 844 | 507.9943 | 855 | 639 | 347 | 1333 |
| 1:15:17 PM | 29.631 | 844 | 508.3658 | 855 | 656 | 344 | 1330 |
| 1:15:47 PM | 29.7555 | 845 | 507.939 | 854 | 653 | 346 | 1333 |
| 1:16:16 PM | 29.88 | 845 | 507.5331 | 855 | 656 | 348 | 1341 |
| 1:16:46 PM | 29.88 | 845 | 507.5327 | 855 | 657 | 350 | 1341 |

| | | | | | | | |
|------------|---------|-----|----------|-----|-----|-----|------|
| 1:17:16 PM | 29.7555 | 845 | 507.9519 | 854 | 657 | 347 | 1336 |
| 1:17:46 PM | 29.631 | 846 | 507.8684 | 855 | 672 | 344 | 1330 |
| 1:18:15 PM | 29.7555 | 846 | 507.7173 | 855 | 641 | 345 | 1331 |
| 1:18:45 PM | 29.7555 | 846 | 507.5403 | 855 | 647 | 346 | 1336 |
| 1:19:15 PM | 29.7555 | 846 | 507.2599 | 855 | 657 | 347 | 1335 |
| 1:19:44 PM | 29.7555 | 847 | 507.5544 | 854 | 652 | 348 | 1340 |
| 1:20:14 PM | 29.631 | 847 | 507.572 | 855 | 643 | 345 | 1334 |
| 1:20:44 PM | 29.7555 | 847 | 507.1421 | 855 | 663 | 349 | 1337 |
| 1:21:14 PM | 29.5065 | 848 | 508.4822 | 855 | 658 | 341 | 1327 |
| 1:21:43 PM | 29.5065 | 848 | 508.2991 | 855 | 670 | 341 | 1327 |
| 1:22:13 PM | 29.382 | 848 | 508.7324 | 856 | 644 | 337 | 1319 |
| 1:22:43 PM | 29.382 | 848 | 508.5115 | 857 | 633 | 338 | 1320 |
| 1:23:12 PM | 29.5065 | 849 | 508.4703 | 857 | 653 | 341 | 1324 |
| 1:23:42 PM | 29.5065 | 849 | 508.2354 | 857 | 653 | 341 | 1326 |
| 1:24:12 PM | 29.631 | 850 | 508.0851 | 856 | 667 | 344 | 1331 |
| 1:24:42 PM | 29.5065 | 850 | 508.3983 | 857 | 647 | 341 | 1326 |
| 1:25:11 PM | 29.631 | 850 | 508.4242 | 857 | 656 | 342 | 1328 |
| 1:25:41 PM | 29.382 | 850 | 508.729 | 856 | 667 | 339 | 1322 |
| 1:26:11 PM | 29.382 | 851 | 508.6191 | 857 | 636 | 337 | 1317 |
| 1:26:41 PM | 29.382 | 851 | 509.0883 | 857 | 659 | 335 | 1316 |
| 1:27:10 PM | 29.382 | 851 | 508.5093 | 858 | 658 | 339 | 1321 |
| 1:27:40 PM | 29.382 | 852 | 508.8575 | 858 | 657 | 337 | 1319 |
| 1:28:10 PM | 29.382 | 852 | 508.6207 | 857 | 659 | 340 | 1323 |
| 1:28:39 PM | 29.5065 | 852 | 508.515 | 858 | 652 | 340 | 1324 |
| 1:29:09 PM | 29.382 | 853 | 508.7068 | 857 | 638 | 337 | 1321 |
| 1:29:39 PM | 29.382 | 853 | 508.7431 | 858 | 660 | 340 | 1320 |
| 1:30:09 PM | 29.382 | 853 | 508.6584 | 858 | 626 | 339 | 1323 |
| 1:30:38 PM | 29.382 | 854 | 508.4158 | 857 | 654 | 339 | 1322 |
| 1:31:08 PM | 29.382 | 854 | 508.8999 | 858 | 675 | 336 | 1319 |
| 1:31:38 PM | 29.5065 | 854 | 508.5188 | 858 | 662 | 340 | 1327 |
| 1:32:07 PM | 29.631 | 855 | 507.9042 | 857 | 672 | 342 | 1328 |
| 1:32:37 PM | 29.631 | 855 | 507.9138 | 857 | 675 | 346 | 1334 |
| 1:33:07 PM | 29.7555 | 856 | 507.91 | 857 | 658 | 346 | 1332 |
| 1:33:07 PM | 29.7555 | 856 | 507.9371 | 857 | 658 | 346 | 1332 |
| 1:33:37 PM | 29.7555 | 856 | 507.9027 | 856 | 663 | 347 | 1337 |
| 1:34:06 PM | 29.5065 | 856 | 507.7196 | 856 | 670 | 342 | 1330 |
| 1:34:36 PM | 29.5065 | 856 | 507.9084 | 857 | 665 | 343 | 1330 |
| 1:35:06 PM | 29.5065 | 856 | 508.1938 | 857 | 665 | 340 | 1327 |
| 1:35:36 PM | 29.631 | 856 | 508.2548 | 857 | 653 | 344 | 1332 |
| 1:36:05 PM | 29.7555 | 857 | 508.0156 | 857 | 655 | 346 | 1334 |
| 1:36:35 PM | 29.631 | 857 | 508.251 | 856 | 656 | 343 | 1330 |
| 1:37:05 PM | 29.382 | 857 | 508.3101 | 856 | 658 | 340 | 1326 |
| 1:37:34 PM | 29.382 | 857 | 508.3906 | 857 | 646 | 340 | 1323 |
| 1:38:04 PM | 29.382 | 858 | 508.5314 | 858 | 661 | 338 | 1322 |
| 1:38:34 PM | 29.382 | 858 | 508.3269 | 858 | 661 | 339 | 1324 |
| 1:39:04 PM | 29.5065 | 858 | 507.548 | 858 | 668 | 343 | 1330 |
| 1:39:33 PM | 29.5065 | 858 | 507.8245 | 857 | 662 | 342 | 1329 |
| 1:40:03 PM | 29.5065 | 859 | 507.6704 | 857 | 651 | 342 | 1329 |
| 1:40:33 PM | 29.5065 | 859 | 507.5926 | 858 | 665 | 343 | 1327 |
| 1:41:02 PM | 29.5065 | 859 | 507.6177 | 857 | 652 | 344 | 1331 |
| 1:41:32 PM | 29.5065 | 860 | 508.1221 | 857 | 654 | 340 | 1327 |
| 1:42:02 PM | 29.382 | 860 | 508.0343 | 858 | 660 | 339 | 1326 |
| 1:42:32 PM | 29.382 | 860 | 507.7734 | 858 | 660 | 341 | 1326 |
| 1:43:01 PM | 29.382 | 860 | 508.048 | 858 | 665 | 339 | 1326 |
| 1:43:31 PM | 29.2575 | 860 | 508.6691 | 858 | 635 | 336 | 1320 |
| 1:44:01 PM | 29.382 | 860 | 507.9317 | 859 | 652 | 338 | 1322 |
| 1:44:30 PM | 29.382 | 861 | 507.5876 | 858 | 646 | 340 | 1327 |
| 1:45:00 PM | 29.5065 | 861 | 507.5502 | 858 | 650 | 342 | 1329 |
| 1:45:30 PM | 29.631 | 862 | 507.015 | 858 | 657 | 345 | 1336 |
| 1:46:00 PM | 29.631 | 862 | 507.1299 | 858 | 662 | 344 | 1334 |
| 1:46:29 PM | 29.5065 | 862 | 507.7307 | 857 | 644 | 341 | 1330 |
| 1:46:59 PM | 29.631 | 862 | 507.4366 | 857 | 652 | 345 | 1335 |
| 1:47:29 PM | 29.5065 | 862 | 507.34 | 856 | 660 | 343 | 1333 |
| 1:47:59 PM | 29.382 | 863 | 508.0519 | 857 | 653 | 338 | 1326 |

Average 29.94531 838.4644809 507.267321 851.65574 657.01639 353.098361 1344.060109

Montrose corrected - GE Trend Test 2 Unit 1

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | | BTU/SCF (68F) | MM BTU/Hr | | BTU/KWH |
|----------|-----------|----------|--------------------------------|---------------------|--|---------------|------------|--------|-----------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | | HHV | Heat Input | Kw | Heat Rate |
| 136.3 | 4,832 | 3.66 | 5.104 | 1.395 | | 1,064 | 308 | 30,503 | 10,110 |
| 136.4 | 4,835 | 3.66 | 5.146 | 1.406 | | 1,064 | 309 | 30,503 | 10,117 |
| 136.7 | 4,845 | 3.67 | 5.188 | 1.414 | | 1,064 | 309 | 30,627 | 10,096 |
| 136.3 | 4,835 | 3.66 | 5.132 | 1.402 | | 1,064 | 309 | 30,503 | 10,115 |
| 136.2 | 4,830 | 3.66 | 5.118 | 1.400 | | 1,064 | 308 | 30,503 | 10,105 |
| 137.0 | 4,855 | 3.68 | 5.230 | 1.423 | | 1,064 | 310 | 30,627 | 10,116 |
| 137.0 | 4,855 | 3.68 | 5.230 | 1.423 | | 1,064 | 310 | 30,627 | 10,116 |
| 137.4 | 4,867 | 3.68 | 5.271 | 1.431 | | 1,064 | 311 | 30,752 | 10,100 |
| 136.9 | 4,852 | 3.67 | 5.216 | 1.420 | | 1,064 | 310 | 30,627 | 10,110 |
| 136.5 | 4,838 | 3.66 | 5.160 | 1.409 | | 1,064 | 309 | 30,503 | 10,122 |
| 136.3 | 4,834 | 3.66 | 5.132 | 1.402 | | 1,064 | 308 | 30,503 | 10,114 |
| 136.4 | 4,838 | 3.66 | 5.146 | 1.405 | | 1,064 | 309 | 30,503 | 10,122 |
| 136.0 | 4,825 | 3.65 | 5.104 | 1.397 | | 1,064 | 308 | 30,503 | 10,095 |
| 136.4 | 4,839 | 3.66 | 5.132 | 1.401 | | 1,064 | 309 | 30,503 | 10,125 |
| 136.3 | 4,835 | 3.66 | 5.146 | 1.406 | | 1,064 | 309 | 30,503 | 10,115 |
| 136.7 | 4,846 | 3.67 | 5.174 | 1.410 | | 1,064 | 309 | 30,503 | 10,139 |
| 136.0 | 4,826 | 3.65 | 5.104 | 1.397 | | 1,064 | 308 | 30,378 | 10,138 |
| 136.2 | 4,830 | 3.66 | 5.118 | 1.399 | | 1,064 | 308 | 30,503 | 10,106 |
| 136.1 | 4,826 | 3.65 | 5.104 | 1.397 | | 1,064 | 308 | 30,378 | 10,138 |
| 136.7 | 4,845 | 3.67 | 5.188 | 1.414 | | 1,064 | 309 | 30,503 | 10,138 |
| 136.4 | 4,837 | 3.66 | 5.132 | 1.401 | | 1,064 | 309 | 30,378 | 10,161 |
| 136.3 | 4,833 | 3.66 | 5.118 | 1.399 | | 1,064 | 308 | 30,378 | 10,153 |
| 136.3 | 4,836 | 3.66 | 5.118 | 1.398 | | 1,064 | 309 | 30,503 | 10,119 |
| 135.9 | 4,823 | 3.65 | 5.077 | 1.390 | | 1,064 | 308 | 30,378 | 10,132 |
| 134.8 | 4,791 | 3.63 | 4.951 | 1.365 | | 1,064 | 306 | 30,129 | 10,149 |
| 135.2 | 4,801 | 3.64 | 5.021 | 1.381 | | 1,064 | 306 | 30,254 | 10,128 |
| 134.7 | 4,786 | 3.62 | 4.937 | 1.363 | | 1,064 | 305 | 30,129 | 10,137 |
| 135.0 | 4,797 | 3.63 | 4.979 | 1.371 | | 1,064 | 306 | 30,129 | 10,160 |
| 134.2 | 4,771 | 3.61 | 4.896 | 1.355 | | 1,064 | 304 | 30,005 | 10,147 |
| 134.4 | 4,779 | 3.62 | 4.896 | 1.353 | | 1,064 | 305 | 30,129 | 10,122 |
| 135.0 | 4,798 | 3.63 | 4.951 | 1.363 | | 1,064 | 306 | 30,129 | 10,162 |
| 135.2 | 4,800 | 3.63 | 5.007 | 1.378 | | 1,064 | 306 | 30,254 | 10,125 |
| 135.3 | 4,806 | 3.64 | 5.021 | 1.380 | | 1,064 | 307 | 30,254 | 10,139 |
| 135.2 | 4,804 | 3.64 | 4.993 | 1.373 | | 1,064 | 307 | 30,254 | 10,133 |
| 134.5 | 4,783 | 3.62 | 4.910 | 1.356 | | 1,064 | 305 | 30,005 | 10,172 |
| 135.0 | 4,797 | 3.63 | 4.993 | 1.375 | | 1,064 | 306 | 30,254 | 10,118 |
| 135.2 | 4,806 | 3.64 | 4.979 | 1.368 | | 1,064 | 307 | 30,254 | 10,137 |
| 134.8 | 4,791 | 3.63 | 4.951 | 1.365 | | 1,064 | 306 | 30,129 | 10,148 |
| 134.5 | 4,782 | 3.62 | 4.924 | 1.360 | | 1,064 | 305 | 30,129 | 10,130 |
| 134.9 | 4,794 | 3.63 | 4.979 | 1.372 | | 1,064 | 306 | 30,254 | 10,112 |
| 135.7 | 4,819 | 3.65 | 5.049 | 1.384 | | 1,064 | 308 | 30,254 | 10,164 |
| 135.7 | 4,821 | 3.65 | 5.035 | 1.379 | | 1,064 | 308 | 30,254 | 10,170 |
| 135.3 | 4,806 | 3.64 | 5.007 | 1.376 | | 1,064 | 307 | 30,254 | 10,138 |
| 135.3 | 4,806 | 3.64 | 5.021 | 1.380 | | 1,064 | 307 | 30,254 | 10,139 |
| 135.4 | 4,814 | 3.64 | 5.007 | 1.374 | | 1,064 | 307 | 30,254 | 10,154 |
| 133.8 | 4,767 | 3.61 | 4.854 | 1.345 | | 1,064 | 304 | 30,005 | 10,139 |
| 133.9 | 4,760 | 3.60 | 4.896 | 1.358 | | 1,064 | 304 | 30,005 | 10,124 |
| 134.8 | 4,787 | 3.62 | 4.937 | 1.362 | | 1,064 | 306 | 30,129 | 10,140 |
| 135.4 | 4,805 | 3.64 | 4.993 | 1.372 | | 1,064 | 307 | 30,254 | 10,136 |
| 135.9 | 4,821 | 3.65 | 5.035 | 1.379 | | 1,064 | 308 | 30,254 | 10,169 |
| 136.4 | 4,830 | 3.66 | 5.118 | 1.400 | | 1,064 | 308 | 30,378 | 10,147 |
| 136.6 | 4,841 | 3.67 | 5.146 | 1.404 | | 1,064 | 309 | 30,378 | 10,169 |
| 135.8 | 4,816 | 3.65 | 5.021 | 1.377 | | 1,064 | 307 | 30,254 | 10,158 |
| 135.8 | 4,813 | 3.64 | 5.049 | 1.385 | | 1,064 | 307 | 30,254 | 10,153 |
| 135.4 | 4,799 | 3.63 | 4.993 | 1.374 | | 1,064 | 306 | 30,254 | 10,123 |
| 135.4 | 4,799 | 3.63 | 4.993 | 1.374 | | 1,064 | 306 | 30,254 | 10,124 |
| 136.1 | 4,822 | 3.65 | 5.104 | 1.398 | | 1,064 | 308 | 30,378 | 10,130 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 136.2 | 4,829 | 3.66 | 5.063 | 1.385 | 1,064 | 308 | 30,378 | 10,144 |
| 135.9 | 4,815 | 3.65 | 5.049 | 1.385 | 1,064 | 307 | 30,254 | 10,156 |
| 136.2 | 4,825 | 3.65 | 5.104 | 1.397 | 1,064 | 308 | 30,254 | 10,177 |
| 135.5 | 4,801 | 3.64 | 5.007 | 1.377 | 1,064 | 306 | 30,254 | 10,127 |
| 136.1 | 4,823 | 3.65 | 5.077 | 1.390 | 1,064 | 308 | 30,378 | 10,132 |
| 135.6 | 4,809 | 3.64 | 4.993 | 1.371 | 1,064 | 307 | 30,129 | 10,186 |
| 135.4 | 4,799 | 3.63 | 4.993 | 1.374 | 1,064 | 306 | 30,129 | 10,166 |
| 135.3 | 4,797 | 3.63 | 4.979 | 1.371 | 1,064 | 306 | 30,129 | 10,160 |
| 136.5 | 4,834 | 3.66 | 5.118 | 1.398 | 1,064 | 308 | 30,378 | 10,155 |
| 136.5 | 4,831 | 3.66 | 5.118 | 1.399 | 1,064 | 308 | 30,378 | 10,150 |
| 136.7 | 4,834 | 3.66 | 5.146 | 1.406 | 1,064 | 309 | 30,378 | 10,155 |
| 136.5 | 4,831 | 3.66 | 5.118 | 1.399 | 1,064 | 308 | 30,378 | 10,148 |
| 136.2 | 4,822 | 3.65 | 5.063 | 1.387 | 1,064 | 308 | 30,254 | 10,171 |
| 135.3 | 4,795 | 3.63 | 4.965 | 1.368 | 1,064 | 306 | 30,129 | 10,157 |
| 135.8 | 4,813 | 3.64 | 4.993 | 1.370 | 1,064 | 307 | 30,129 | 10,195 |
| 135.0 | 4,785 | 3.62 | 4.951 | 1.367 | 1,064 | 305 | 30,129 | 10,135 |
| 134.8 | 4,780 | 3.62 | 4.924 | 1.360 | 1,064 | 305 | 30,005 | 10,167 |
| 135.5 | 4,804 | 3.64 | 4.979 | 1.369 | 1,064 | 307 | 30,129 | 10,176 |
| 135.8 | 4,810 | 3.64 | 5.035 | 1.383 | 1,064 | 307 | 30,254 | 10,145 |
| 135.6 | 4,806 | 3.64 | 4.993 | 1.372 | 1,064 | 307 | 30,129 | 10,179 |
| 135.5 | 4,801 | 3.64 | 4.993 | 1.374 | 1,064 | 306 | 30,129 | 10,169 |
| 135.3 | 4,792 | 3.63 | 4.979 | 1.372 | 1,064 | 306 | 30,129 | 10,151 |
| 136.0 | 4,815 | 3.65 | 5.049 | 1.385 | 1,064 | 307 | 30,254 | 10,157 |
| 136.4 | 4,825 | 3.65 | 5.104 | 1.397 | 1,064 | 308 | 30,378 | 10,136 |
| 135.8 | 4,813 | 3.64 | 5.007 | 1.374 | 1,064 | 307 | 30,254 | 10,152 |
| 136.3 | 4,829 | 3.66 | 5.063 | 1.385 | 1,064 | 308 | 30,254 | 10,186 |
| 135.8 | 4,812 | 3.64 | 5.007 | 1.374 | 1,064 | 307 | 30,254 | 10,151 |
| 135.7 | 4,808 | 3.64 | 5.007 | 1.375 | 1,064 | 307 | 30,129 | 10,185 |
| 135.5 | 4,800 | 3.63 | 4.979 | 1.370 | 1,064 | 306 | 30,005 | 10,209 |
| 135.1 | 4,788 | 3.63 | 4.951 | 1.366 | 1,064 | 306 | 30,129 | 10,142 |
| 135.5 | 4,801 | 3.64 | 4.979 | 1.370 | 1,064 | 306 | 30,129 | 10,169 |
| 135.0 | 4,788 | 3.63 | 4.937 | 1.362 | 1,064 | 306 | 30,005 | 10,183 |
| 135.0 | 4,787 | 3.62 | 4.951 | 1.366 | 1,064 | 306 | 30,129 | 10,140 |
| 134.9 | 4,783 | 3.62 | 4.937 | 1.363 | 1,064 | 305 | 30,005 | 10,173 |
| 134.4 | 4,768 | 3.61 | 4.868 | 1.348 | 1,064 | 304 | 29,880 | 10,184 |
| 134.6 | 4,772 | 3.61 | 4.910 | 1.359 | 1,064 | 305 | 30,005 | 10,149 |
| 134.8 | 4,780 | 3.62 | 4.896 | 1.353 | 1,064 | 305 | 30,005 | 10,166 |
| 133.5 | 4,741 | 3.59 | 4.826 | 1.345 | 1,064 | 303 | 29,631 | 10,210 |
| 134.2 | 4,763 | 3.61 | 4.868 | 1.350 | 1,064 | 304 | 29,880 | 10,173 |
| 134.9 | 4,786 | 3.62 | 4.937 | 1.363 | 1,064 | 305 | 30,005 | 10,179 |
| 134.2 | 4,763 | 3.61 | 4.854 | 1.346 | 1,064 | 304 | 29,880 | 10,173 |
| 133.8 | 4,748 | 3.60 | 4.826 | 1.342 | 1,064 | 303 | 29,756 | 10,184 |
| 134.4 | 4,767 | 3.61 | 4.868 | 1.349 | 1,064 | 304 | 29,880 | 10,181 |
| 134.9 | 4,783 | 3.62 | 4.951 | 1.367 | 1,064 | 305 | 30,005 | 10,173 |
| 134.5 | 4,771 | 3.61 | 4.910 | 1.359 | 1,064 | 304 | 30,005 | 10,148 |
| 135.2 | 4,794 | 3.63 | 4.937 | 1.360 | 1,064 | 306 | 30,005 | 10,197 |
| 133.3 | 4,734 | 3.58 | 4.798 | 1.339 | 1,064 | 302 | 29,631 | 10,197 |
| 133.3 | 4,736 | 3.59 | 4.798 | 1.338 | 1,064 | 302 | 29,756 | 10,157 |
| 133.0 | 4,725 | 3.58 | 4.771 | 1.333 | 1,064 | 302 | 29,631 | 10,177 |
| 132.6 | 4,713 | 3.57 | 4.743 | 1.329 | 1,064 | 301 | 29,631 | 10,150 |
| 133.9 | 4,754 | 3.60 | 4.882 | 1.356 | 1,064 | 303 | 29,880 | 10,152 |
| 134.5 | 4,775 | 3.62 | 4.882 | 1.350 | 1,064 | 305 | 30,005 | 10,156 |
| 134.9 | 4,788 | 3.63 | 4.924 | 1.358 | 1,064 | 306 | 30,005 | 10,184 |
| 134.4 | 4,774 | 3.61 | 4.868 | 1.347 | 1,064 | 305 | 29,880 | 10,196 |
| 133.1 | 4,734 | 3.58 | 4.784 | 1.335 | 1,064 | 302 | 29,631 | 10,196 |
| 132.9 | 4,727 | 3.58 | 4.771 | 1.333 | 1,064 | 302 | 29,631 | 10,180 |
| 133.2 | 4,739 | 3.59 | 4.798 | 1.337 | 1,064 | 302 | 29,631 | 10,206 |
| 133.3 | 4,740 | 3.59 | 4.826 | 1.345 | 1,064 | 302 | 29,756 | 10,166 |
| 133.0 | 4,733 | 3.58 | 4.784 | 1.335 | 1,064 | 302 | 29,631 | 10,193 |
| 133.3 | 4,739 | 3.59 | 4.812 | 1.341 | 1,064 | 302 | 29,756 | 10,164 |
| 134.1 | 4,764 | 3.61 | 4.840 | 1.342 | 1,064 | 304 | 29,880 | 10,175 |
| 134.1 | 4,764 | 3.61 | 4.868 | 1.350 | 1,064 | 304 | 29,880 | 10,175 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 133.6 | 4,750 | 3.60 | 4.826 | 1.342 | 1,064 | 303 | 29,756 | 10,188 |
| 133.0 | 4,728 | 3.58 | 4.784 | 1.337 | 1,064 | 302 | 29,631 | 10,183 |
| 133.1 | 4,730 | 3.58 | 4.798 | 1.340 | 1,064 | 302 | 29,756 | 10,145 |
| 133.6 | 4,746 | 3.59 | 4.812 | 1.339 | 1,064 | 303 | 29,756 | 10,180 |
| 133.5 | 4,740 | 3.59 | 4.826 | 1.345 | 1,064 | 303 | 29,756 | 10,166 |
| 134.0 | 4,761 | 3.60 | 4.840 | 1.343 | 1,064 | 304 | 29,756 | 10,210 |
| 133.4 | 4,740 | 3.59 | 4.798 | 1.337 | 1,064 | 302 | 29,631 | 10,208 |
| 133.7 | 4,746 | 3.59 | 4.854 | 1.351 | 1,064 | 303 | 29,756 | 10,179 |
| 132.7 | 4,723 | 3.58 | 4.743 | 1.326 | 1,064 | 301 | 29,507 | 10,215 |
| 132.7 | 4,721 | 3.57 | 4.743 | 1.327 | 1,064 | 301 | 29,507 | 10,211 |
| 131.9 | 4,697 | 3.56 | 4.687 | 1.318 | 1,064 | 300 | 29,382 | 10,201 |
| 132.0 | 4,698 | 3.56 | 4.701 | 1.322 | 1,064 | 300 | 29,382 | 10,204 |
| 132.4 | 4,712 | 3.57 | 4.743 | 1.329 | 1,064 | 301 | 29,507 | 10,191 |
| 132.6 | 4,717 | 3.57 | 4.743 | 1.328 | 1,064 | 301 | 29,507 | 10,202 |
| 133.1 | 4,734 | 3.58 | 4.784 | 1.335 | 1,064 | 302 | 29,631 | 10,195 |
| 132.6 | 4,719 | 3.57 | 4.743 | 1.328 | 1,064 | 301 | 29,507 | 10,205 |
| 132.8 | 4,726 | 3.58 | 4.757 | 1.329 | 1,064 | 302 | 29,631 | 10,178 |
| 132.2 | 4,707 | 3.56 | 4.715 | 1.323 | 1,064 | 300 | 29,382 | 10,224 |
| 131.7 | 4,689 | 3.55 | 4.687 | 1.320 | 1,064 | 299 | 29,382 | 10,183 |
| 131.6 | 4,689 | 3.55 | 4.659 | 1.312 | 1,064 | 299 | 29,382 | 10,185 |
| 132.1 | 4,702 | 3.56 | 4.715 | 1.324 | 1,064 | 300 | 29,382 | 10,212 |
| 131.9 | 4,698 | 3.56 | 4.687 | 1.318 | 1,064 | 300 | 29,382 | 10,203 |
| 132.3 | 4,710 | 3.57 | 4.729 | 1.326 | 1,064 | 301 | 29,382 | 10,230 |
| 132.4 | 4,712 | 3.57 | 4.729 | 1.325 | 1,064 | 301 | 29,507 | 10,192 |
| 132.1 | 4,704 | 3.56 | 4.687 | 1.316 | 1,064 | 300 | 29,382 | 10,216 |
| 132.0 | 4,700 | 3.56 | 4.729 | 1.329 | 1,064 | 300 | 29,382 | 10,209 |
| 132.3 | 4,710 | 3.57 | 4.715 | 1.322 | 1,064 | 301 | 29,382 | 10,230 |
| 132.2 | 4,704 | 3.56 | 4.715 | 1.324 | 1,064 | 300 | 29,382 | 10,218 |
| 131.9 | 4,698 | 3.56 | 4.673 | 1.314 | 1,064 | 300 | 29,382 | 10,204 |
| 132.7 | 4,723 | 3.58 | 4.729 | 1.322 | 1,064 | 301 | 29,507 | 10,215 |
| 132.8 | 4,721 | 3.57 | 4.757 | 1.331 | 1,064 | 301 | 29,631 | 10,168 |
| 133.4 | 4,743 | 3.59 | 4.812 | 1.340 | 1,064 | 303 | 29,631 | 10,214 |
| 133.2 | 4,735 | 3.59 | 4.812 | 1.342 | 1,064 | 302 | 29,756 | 10,156 |
| 133.2 | 4,736 | 3.59 | 4.812 | 1.342 | 1,064 | 302 | 29,756 | 10,157 |
| 133.7 | 4,753 | 3.60 | 4.826 | 1.341 | 1,064 | 303 | 29,756 | 10,194 |
| 133.0 | 4,727 | 3.58 | 4.757 | 1.329 | 1,064 | 302 | 29,507 | 10,223 |
| 133.0 | 4,728 | 3.58 | 4.771 | 1.333 | 1,064 | 302 | 29,507 | 10,227 |
| 132.7 | 4,720 | 3.57 | 4.729 | 1.323 | 1,064 | 301 | 29,507 | 10,209 |
| 133.2 | 4,739 | 3.59 | 4.784 | 1.334 | 1,064 | 302 | 29,631 | 10,206 |
| 133.4 | 4,744 | 3.59 | 4.812 | 1.340 | 1,064 | 303 | 29,756 | 10,174 |
| 133.0 | 4,731 | 3.58 | 4.771 | 1.332 | 1,064 | 302 | 29,631 | 10,190 |
| 132.6 | 4,718 | 3.57 | 4.729 | 1.324 | 1,064 | 301 | 29,382 | 10,247 |
| 132.3 | 4,708 | 3.56 | 4.729 | 1.327 | 1,064 | 300 | 29,382 | 10,225 |
| 132.2 | 4,706 | 3.56 | 4.701 | 1.319 | 1,064 | 300 | 29,382 | 10,220 |
| 132.4 | 4,711 | 3.57 | 4.715 | 1.322 | 1,064 | 301 | 29,382 | 10,232 |
| 133.0 | 4,725 | 3.58 | 4.771 | 1.333 | 1,064 | 302 | 29,507 | 10,220 |
| 132.9 | 4,724 | 3.58 | 4.757 | 1.330 | 1,064 | 301 | 29,507 | 10,217 |
| 132.9 | 4,723 | 3.58 | 4.757 | 1.330 | 1,064 | 301 | 29,507 | 10,214 |
| 132.7 | 4,715 | 3.57 | 4.771 | 1.336 | 1,064 | 301 | 29,507 | 10,197 |
| 133.1 | 4,729 | 3.58 | 4.784 | 1.336 | 1,064 | 302 | 29,507 | 10,229 |
| 132.7 | 4,720 | 3.57 | 4.729 | 1.323 | 1,064 | 301 | 29,507 | 10,208 |
| 132.6 | 4,715 | 3.57 | 4.715 | 1.321 | 1,064 | 301 | 29,382 | 10,241 |
| 132.6 | 4,713 | 3.57 | 4.743 | 1.329 | 1,064 | 301 | 29,382 | 10,236 |
| 132.6 | 4,715 | 3.57 | 4.715 | 1.321 | 1,064 | 301 | 29,382 | 10,242 |
| 132.0 | 4,700 | 3.56 | 4.673 | 1.313 | 1,064 | 300 | 29,258 | 10,251 |
| 132.2 | 4,700 | 3.56 | 4.701 | 1.321 | 1,064 | 300 | 29,382 | 10,209 |
| 132.7 | 4,715 | 3.57 | 4.729 | 1.325 | 1,064 | 301 | 29,382 | 10,240 |
| 132.9 | 4,722 | 3.57 | 4.757 | 1.331 | 1,064 | 301 | 29,507 | 10,212 |
| 133.6 | 4,742 | 3.59 | 4.798 | 1.337 | 1,064 | 303 | 29,631 | 10,212 |
| 133.4 | 4,736 | 3.59 | 4.784 | 1.334 | 1,064 | 302 | 29,631 | 10,199 |
| 133.0 | 4,727 | 3.58 | 4.743 | 1.325 | 1,064 | 302 | 29,507 | 10,223 |
| 133.5 | 4,742 | 3.59 | 4.798 | 1.336 | 1,064 | 303 | 29,631 | 10,213 |
| 133.3 | 4,734 | 3.58 | 4.771 | 1.331 | 1,064 | 302 | 29,507 | 10,238 |
| 132.6 | 4,715 | 3.57 | 4.701 | 1.317 | 1,064 | 301 | 29,382 | 10,242 |

134.406011 4772.407153 3.61344347 4.911009699 1.358817224 1063.616864 304.5607638 29945.31148 10170.97757

GE Trend Test 1 Unit 1

| DATETIME | MW | TE_2024 | PGASA | TE_2037 | PT_2074A | FT_2003 | FT_2000 |
|----------|----|---------|-------|---------|----------|---------|---------|
| #!Min | 10 | 0 | 410 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | F | | gpm | ACFM |

| #!Description | MW SELECT | FUEL SUPPLY | GAS FUEL | DE-MIN | DE-MIN | NOX WATER | GAS FLOW |
|---------------|-----------|------------------|--------------------|------------------------------|-------------------------------|------------------------|-------------|
| | | TEMPERATURE A | SUPPLY PRESSURE | WATER SUPPLY TEMP(x10) | WATER SUPPLY PRESS(x10) | INJECTION FLOW(x10) | FT2000(x10) |
| 2:05:19 PM | 29.2575 | 871 | 508.7031 | 863 | 672 | 336 | 1319 |
| 2:05:48 PM | 29.2575 | 872 | 508.5581 | 863 | 644 | 336 | 1321 |
| 2:06:18 PM | 29.2575 | 872 | 508.4421 | 862 | 684 | 337 | 1322 |
| 2:06:48 PM | 29.382 | 873 | 508.2361 | 862 | 654 | 338 | 1325 |
| 2:07:18 PM | 29.2575 | 872 | 508.0156 | 862 | 657 | 338 | 1324 |
| 2:07:47 PM | 29.382 | 873 | 507.8417 | 861 | 651 | 337 | 1324 |
| 2:08:17 PM | 29.2575 | 873 | 507.5285 | 862 | 685 | 337 | 1322 |
| 2:08:47 PM | 29.2575 | 873 | 508.3185 | 861 | 670 | 336 | 1322 |
| 2:09:16 PM | 29.382 | 873 | 507.6201 | 861 | 663 | 339 | 1324 |
| 2:09:46 PM | 29.382 | 874 | 507.3134 | 861 | 654 | 341 | 1329 |
| 2:10:16 PM | 29.382 | 873 | 507.7646 | 861 | 663 | 337 | 1325 |
| 2:10:46 PM | 29.382 | 874 | 507.786 | 861 | 656 | 340 | 1327 |
| 2:11:15 PM | 29.2575 | 874 | 508.0305 | 860 | 646 | 337 | 1326 |
| 2:11:45 PM | 29.382 | 874 | 508.2109 | 861 | 649 | 337 | 1321 |
| 2:12:15 PM | 29.2575 | 874 | 507.9157 | 861 | 647 | 336 | 1322 |
| 2:12:45 PM | 29.2575 | 875 | 508.0698 | 862 | 666 | 337 | 1325 |
| 2:13:14 PM | 29.133 | 875 | 508.6614 | 861 | 648 | 334 | 1319 |
| 2:13:44 PM | 29.133 | 874 | 508.7168 | 862 | 671 | 331 | 1316 |
| 2:14:14 PM | 29.2575 | 875 | 508.3776 | 862 | 676 | 336 | 1320 |
| 2:14:43 PM | 29.2575 | 875 | 508.6202 | 862 | 649 | 335 | 1318 |
| 2:15:13 PM | 29.133 | 875 | 508.5108 | 862 | 622 | 333 | 1316 |
| 2:15:43 PM | 29.133 | 875 | 509.03 | 862 | 684 | 331 | 1314 |
| 2:16:13 PM | 29.0085 | 875 | 509.4824 | 863 | 639 | 330 | 1310 |
| 2:16:42 PM | 29.0085 | 875 | 509.4561 | 863 | 686 | 328 | 1309 |
| 2:17:12 PM | 28.884 | 876 | 509.6312 | 864 | 661 | 326 | 1301 |
| 2:17:42 PM | 29.133 | 877 | 509.7071 | 863 | 651 | 331 | 1313 |
| 2:18:11 PM | 29.0085 | 877 | 509.4355 | 864 | 664 | 329 | 1309 |
| 2:18:41 PM | 29.0085 | 877 | 509.6628 | 864 | 639 | 328 | 1304 |
| 2:19:11 PM | 28.884 | 877 | 510.3666 | 865 | 684 | 327 | 1305 |
| 2:19:41 PM | 29.0085 | 878 | 509.9459 | 865 | 681 | 330 | 1308 |
| 2:20:10 PM | 28.884 | 878 | 509.9398 | 865 | 684 | 328 | 1307 |
| 2:20:40 PM | 29.0085 | 878 | 510.3185 | 865 | 670 | 330 | 1311 |
| 2:21:10 PM | 29.0085 | 878 | 510.0408 | 864 | 655 | 331 | 1311 |
| 2:21:39 PM | 29.0085 | 879 | 510.5963 | 865 | 659 | 328 | 1305 |
| 2:22:09 PM | 29.0085 | 879 | 510.5131 | 865 | 679 | 329 | 1305 |
| 2:22:39 PM | 28.884 | 879 | 511.1864 | 865 | 682 | 325 | 1300 |
| 2:23:09 PM | 28.884 | 879 | 510.7756 | 865 | 667 | 327 | 1302 |
| 2:23:38 PM | 29.133 | 879 | 510.5143 | 866 | 669 | 331 | 1312 |
| 2:24:08 PM | 29.0085 | 880 | 510.5352 | 865 | 665 | 330 | 1309 |
| 2:24:38 PM | 29.0085 | 880 | 510.6451 | 865 | 677 | 330 | 1310 |
| 2:25:08 PM | 28.884 | 880 | 510.9819 | 865 | 666 | 327 | 1303 |
| 2:25:37 PM | 28.7595 | 881 | 510.967 | 865 | 651 | 325 | 1299 |
| 2:26:07 PM | 29.0085 | 881 | 510.5253 | 866 | 662 | 328 | 1304 |
| 2:26:37 PM | 29.0085 | 881 | 510.3529 | 865 | 651 | 329 | 1307 |
| 2:27:06 PM | 28.884 | 881 | 510.9202 | 865 | 656 | 327 | 1304 |
| 2:27:36 PM | 28.884 | 882 | 510.7561 | 865 | 655 | 327 | 1301 |
| 2:28:06 PM | 28.884 | 882 | 510.6425 | 866 | 664 | 328 | 1306 |
| 2:28:36 PM | 29.0085 | 882 | 510.7958 | 866 | 668 | 329 | 1308 |
| 2:29:05 PM | 29.133 | 882 | 509.7849 | 866 | 628 | 332 | 1313 |
| 2:29:35 PM | 28.884 | 882 | 510.6993 | 865 | 660 | 328 | 1306 |
| 2:30:05 PM | 29.133 | 883 | 510.1519 | 865 | 652 | 331 | 1313 |
| 2:30:34 PM | 29.133 | 883 | 510.3853 | 865 | 695 | 333 | 1316 |
| 2:31:04 PM | 29.133 | 883 | 509.6354 | 865 | 639 | 335 | 1318 |
| 2:31:34 PM | 29.0085 | 883 | 509.934 | 865 | 662 | 332 | 1316 |
| 2:32:04 PM | 29.0085 | 883 | 510.0691 | 865 | 662 | 331 | 1316 |
| 2:32:33 PM | 29.133 | 883 | 509.3485 | 864 | 662 | 336 | 1326 |

| | | | | | | | |
|------------|---------|-----|----------|-----|-----|-----|------|
| 2:33:03 PM | 29.133 | 884 | 508.7957 | 864 | 667 | 339 | 1334 |
| 2:33:33 PM | 29.133 | 884 | 508.2167 | 863 | 673 | 343 | 1351 |
| 2:33:33 PM | 29.133 | 884 | 508.2403 | 863 | 673 | 343 | 1351 |
| 2:34:03 PM | 29.0085 | 884 | 507.8008 | 862 | 663 | 344 | 1359 |
| 2:34:32 PM | 29.0085 | 884 | 507.2489 | 862 | 659 | 345 | 1367 |
| 2:35:02 PM | 28.884 | 884 | 507.1611 | 862 | 659 | 347 | 1375 |
| 2:35:32 PM | 28.884 | 885 | 507.4774 | 861 | 651 | 346 | 1377 |
| 2:36:01 PM | 28.884 | 885 | 507.0921 | 861 | 668 | 348 | 1384 |
| 2:36:31 PM | 29.0085 | 885 | 506.373 | 861 | 654 | 352 | 1388 |
| 2:37:01 PM | 28.7595 | 885 | 506.7087 | 861 | 659 | 349 | 1388 |
| 2:37:31 PM | 29.0085 | 885 | 506.0255 | 860 | 662 | 356 | 1401 |
| 2:38:00 PM | 28.884 | 886 | 505.533 | 859 | 643 | 358 | 1407 |
| 2:38:30 PM | 28.884 | 886 | 504.8799 | 859 | 650 | 360 | 1415 |
| 2:39:00 PM | 28.884 | 886 | 504.7983 | 859 | 658 | 360 | 1416 |
| 2:39:29 PM | 28.7595 | 886 | 504.511 | 859 | 676 | 362 | 1421 |
| 2:39:59 PM | 28.7595 | 887 | 504.2338 | 859 | 673 | 361 | 1425 |
| 2:40:29 PM | 28.7595 | 887 | 503.8359 | 859 | 642 | 362 | 1425 |
| 2:40:59 PM | 28.884 | 887 | 503.5829 | 859 | 655 | 370 | 1435 |
| 2:41:28 PM | 28.884 | 887 | 503.0588 | 858 | 652 | 370 | 1436 |
| 2:41:58 PM | 28.884 | 887 | 503.2629 | 857 | 648 | 368 | 1435 |
| 2:42:28 PM | 29.0085 | 888 | 502.8193 | 857 | 650 | 372 | 1439 |
| 2:42:57 PM | 28.7595 | 888 | 503.4189 | 857 | 646 | 367 | 1433 |
| 2:43:27 PM | 28.7595 | 888 | 504.4271 | 858 | 659 | 360 | 1425 |
| 2:43:57 PM | 28.5105 | 888 | 503.9953 | 859 | 645 | 356 | 1419 |
| 2:44:27 PM | 28.5105 | 888 | 504.0999 | 859 | 656 | 356 | 1418 |
| 2:44:56 PM | 28.7595 | 888 | 503.8645 | 859 | 648 | 365 | 1431 |
| 2:45:26 PM | 28.7595 | 889 | 503.5406 | 860 | 653 | 363 | 1429 |
| 2:45:56 PM | 28.884 | 889 | 503.1645 | 859 | 654 | 368 | 1435 |
| 2:46:26 PM | 28.884 | 889 | 503.4521 | 859 | 659 | 368 | 1435 |
| 2:46:55 PM | 28.884 | 890 | 503.2289 | 859 | 648 | 368 | 1435 |
| 2:47:25 PM | 28.7595 | 890 | 503.9225 | 858 | 649 | 363 | 1429 |
| 2:47:55 PM | 28.635 | 890 | 503.723 | 858 | 651 | 359 | 1425 |
| 2:48:24 PM | 28.635 | 891 | 503.327 | 859 | 645 | 362 | 1429 |
| 2:48:54 PM | 28.7595 | 891 | 502.8971 | 859 | 649 | 365 | 1433 |
| 2:49:24 PM | 28.7595 | 891 | 503.2274 | 859 | 665 | 361 | 1428 |
| 2:49:54 PM | 28.884 | 891 | 502.5472 | 859 | 648 | 369 | 1437 |
| 2:50:23 PM | 28.7595 | 891 | 503.4296 | 858 | 659 | 364 | 1433 |
| 2:50:53 PM | 28.7595 | 891 | 502.7903 | 858 | 653 | 367 | 1435 |
| 2:51:23 PM | 28.7595 | 892 | 502.8188 | 858 | 650 | 367 | 1436 |
| 2:51:52 PM | 28.7595 | 892 | 503.1984 | 859 | 646 | 361 | 1428 |
| 2:52:22 PM | 28.884 | 892 | 502.8269 | 859 | 650 | 367 | 1436 |
| 2:52:52 PM | 28.7595 | 893 | 503.0325 | 859 | 655 | 365 | 1434 |
| 2:53:22 PM | 28.884 | 893 | 502.096 | 858 | 656 | 372 | 1443 |
| 2:53:51 PM | 28.884 | 893 | 502.0834 | 858 | 652 | 374 | 1446 |
| 2:54:21 PM | 28.884 | 893 | 502.9322 | 858 | 651 | 367 | 1437 |
| 2:54:51 PM | 28.7595 | 893 | 502.5862 | 858 | 657 | 367 | 1436 |
| 2:55:20 PM | 28.884 | 893 | 502.7128 | 858 | 668 | 366 | 1434 |
| 2:55:50 PM | 28.884 | 894 | 502.7105 | 859 | 650 | 369 | 1440 |
| 2:56:20 PM | 28.884 | 894 | 502.6636 | 859 | 647 | 368 | 1438 |
| 2:56:50 PM | 28.7595 | 893 | 503.1359 | 859 | 642 | 365 | 1433 |
| 2:57:19 PM | 28.7595 | 894 | 503.0775 | 859 | 646 | 364 | 1430 |
| 2:57:19 PM | 28.7595 | 894 | 503.0775 | 859 | 664 | 363 | 1430 |
| 2:57:49 PM | 28.884 | 894 | 503.0336 | 860 | 651 | 369 | 1438 |
| 2:58:19 PM | 28.7595 | 895 | 503.5002 | 859 | 651 | 367 | 1436 |
| 2:58:49 PM | 28.635 | 895 | 503.6345 | 860 | 642 | 359 | 1424 |
| 2:59:18 PM | 28.7595 | 895 | 503.7634 | 860 | 648 | 364 | 1432 |
| 2:59:48 PM | 28.884 | 895 | 503.4475 | 860 | 643 | 365 | 1433 |
| 3:00:18 PM | 28.884 | 895 | 503.1035 | 860 | 654 | 368 | 1436 |
| 3:00:47 PM | 28.7595 | 896 | 503.0516 | 860 | 656 | 364 | 1432 |
| 3:01:17 PM | 29.0085 | 896 | 502.8837 | 860 | 654 | 371 | 1440 |
| 3:01:47 PM | 29.0085 | 895 | 502.1471 | 860 | 639 | 375 | 1445 |
| 3:02:17 PM | 28.884 | 896 | 502.6594 | 859 | 653 | 371 | 1441 |
| 3:02:46 PM | 28.7595 | 897 | 503.1443 | 859 | 637 | 363 | 1433 |
| 3:03:16 PM | 28.7595 | 897 | 503.0165 | 860 | 648 | 361 | 1428 |
| 3:03:46 PM | 28.884 | 896 | 502.6594 | 860 | 658 | 369 | 1439 |

| | | | | | | | |
|------------|---------|-----|----------|-----|-----|-----|------|
| 3:04:15 PM | 28.884 | 897 | 503.1157 | 860 | 657 | 368 | 1435 |
| 3:04:45 PM | 28.7595 | 897 | 502.6674 | 860 | 649 | 366 | 1434 |
| 3:05:15 PM | 28.7595 | 897 | 502.7842 | 858 | 656 | 366 | 1435 |
| 3:05:45 PM | 28.7595 | 897 | 503.1431 | 860 | 656 | 362 | 1430 |
| 3:06:14 PM | 28.884 | 898 | 502.7083 | 860 | 658 | 366 | 1432 |
| 3:06:44 PM | 28.884 | 898 | 502.5194 | 860 | 654 | 368 | 1438 |
| 3:07:14 PM | 28.884 | 898 | 502.3382 | 860 | 660 | 366 | 1433 |
| 3:07:43 PM | 28.884 | 898 | 502.7079 | 860 | 659 | 367 | 1435 |
| 3:08:13 PM | 28.7595 | 899 | 502.894 | 860 | 663 | 362 | 1431 |
| 3:08:43 PM | 28.7595 | 899 | 502.9287 | 860 | 659 | 362 | 1431 |
| 3:09:13 PM | 28.635 | 899 | 503.0931 | 860 | 651 | 359 | 1429 |
| 3:09:42 PM | 28.884 | 899 | 501.9221 | 861 | 657 | 370 | 1437 |
| 3:10:12 PM | 28.635 | 899 | 502.9272 | 861 | 658 | 361 | 1430 |
| 3:10:42 PM | 28.7595 | 899 | 502.5728 | 861 | 644 | 366 | 1434 |
| 3:11:12 PM | 28.884 | 899 | 502.2405 | 861 | 645 | 368 | 1440 |
| 3:11:41 PM | 28.7595 | 899 | 502.3546 | 860 | 655 | 362 | 1431 |
| 3:12:11 PM | 28.635 | 899 | 502.8467 | 861 | 651 | 357 | 1424 |
| 3:12:41 PM | 28.7595 | 899 | 502.2562 | 862 | 651 | 361 | 1430 |
| 3:13:10 PM | 28.7595 | 900 | 502.5701 | 862 | 652 | 365 | 1434 |
| 3:13:40 PM | 28.884 | 900 | 502.2871 | 862 | 641 | 367 | 1436 |
| 3:14:10 PM | 28.7595 | 900 | 502.3947 | 861 | 663 | 366 | 1433 |
| 3:14:40 PM | 28.7595 | 900 | 502.4027 | 861 | 637 | 361 | 1430 |
| 3:15:09 PM | 28.7595 | 900 | 502.5507 | 861 | 668 | 363 | 1432 |
| 3:15:39 PM | 28.7595 | 900 | 502.5396 | 861 | 654 | 362 | 1428 |
| 3:16:09 PM | 28.7595 | 901 | 502.7746 | 861 | 672 | 361 | 1428 |
| 3:16:38 PM | 28.7595 | 900 | 502.7888 | 862 | 645 | 360 | 1429 |
| 3:17:08 PM | 28.7595 | 901 | 502.7162 | 862 | 659 | 365 | 1434 |
| 3:17:38 PM | 28.635 | 901 | 503.0142 | 861 | 659 | 361 | 1429 |
| 3:18:08 PM | 28.884 | 901 | 502.4214 | 862 | 640 | 368 | 1436 |
| 3:18:37 PM | 28.884 | 901 | 501.9007 | 861 | 636 | 370 | 1440 |
| 3:19:07 PM | 28.884 | 902 | 502.1986 | 861 | 657 | 371 | 1442 |
| 3:19:37 PM | 29.0085 | 901 | 501.6695 | 860 | 650 | 372 | 1443 |
| 3:20:06 PM | 28.884 | 902 | 502.0223 | 860 | 647 | 369 | 1441 |
| 3:20:36 PM | 29.0085 | 902 | 501.9144 | 860 | 645 | 374 | 1445 |
| 3:21:06 PM | 28.884 | 902 | 502.1082 | 860 | 661 | 372 | 1442 |
| 3:21:36 PM | 29.0085 | 902 | 502.093 | 860 | 645 | 370 | 1441 |
| 3:22:05 PM | 29.0085 | 902 | 501.2552 | 860 | 647 | 373 | 1443 |
| 3:22:35 PM | 29.0085 | 902 | 501.415 | 860 | 638 | 372 | 1443 |
| 3:23:05 PM | 29.0085 | 903 | 501.4952 | 860 | 651 | 372 | 1443 |
| 3:23:35 PM | 28.884 | 902 | 501.3113 | 860 | 652 | 373 | 1446 |
| 3:24:04 PM | 28.884 | 902 | 501.4113 | 860 | 646 | 370 | 1444 |
| 3:24:34 PM | 28.884 | 902 | 501.4311 | 860 | 653 | 370 | 1443 |
| 3:25:04 PM | 28.7595 | 902 | 501.5978 | 860 | 647 | 369 | 1439 |
| 3:25:33 PM | 28.884 | 903 | 501.6252 | 861 | 639 | 368 | 1441 |
| 3:26:03 PM | 28.884 | 902 | 501.3063 | 861 | 657 | 369 | 1439 |
| 3:26:33 PM | 28.7595 | 903 | 501.7863 | 861 | 653 | 364 | 1433 |
| 3:27:03 PM | 28.7595 | 903 | 502.0437 | 862 | 660 | 361 | 1431 |
| 3:27:32 PM | 28.7595 | 903 | 502.17 | 862 | 655 | 361 | 1430 |
| 3:27:32 PM | 28.7595 | 903 | 502.1784 | 862 | 655 | 361 | 1430 |
| 3:28:02 PM | 28.7595 | 903 | 501.9152 | 862 | 646 | 363 | 1433 |
| 3:28:32 PM | 28.884 | 903 | 501.967 | 861 | 652 | 367 | 1440 |
| 3:29:01 PM | 28.635 | 903 | 502.7109 | 862 | 658 | 358 | 1425 |
| 3:29:31 PM | 28.7595 | 904 | 501.9419 | 863 | 656 | 364 | 1432 |
| 3:30:01 PM | 28.7595 | 904 | 501.935 | 863 | 660 | 365 | 1432 |
| 3:30:31 PM | 28.7595 | 904 | 502.0353 | 862 | 662 | 363 | 1431 |
| 3:31:00 PM | 28.635 | 904 | 502.4889 | 863 | 660 | 359 | 1427 |
| 3:31:30 PM | 28.7595 | 904 | 502.0991 | 863 | 647 | 365 | 1433 |

Average 28.9133764 889.5674157 505.15275 861.174157 655.9213483 353.780899 1391.8764

Montrose corrected - GE Trend Test 3 Unit 1

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | BTU/SCF (68F) | MM BTU/Hr | BTU/KWH | |
|----------|-----------|----------|--------------------------------|---------------------|---------------|------------|---------|-----------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | HHV | Heat Input | Kw | Heat Rate |
| 131.9 | 4,696 | 3.56 | 4.673 | 1.314 | 1,064 | 300 | 29,258 | 10,244 |
| 132.1 | 4,702 | 3.56 | 4.673 | 1.313 | 1,064 | 300 | 29,258 | 10,257 |
| 132.2 | 4,705 | 3.56 | 4.687 | 1.316 | 1,064 | 300 | 29,258 | 10,262 |
| 132.5 | 4,714 | 3.57 | 4.701 | 1.317 | 1,064 | 301 | 29,382 | 10,238 |
| 132.4 | 4,708 | 3.56 | 4.701 | 1.319 | 1,064 | 300 | 29,258 | 10,269 |
| 132.4 | 4,706 | 3.56 | 4.687 | 1.315 | 1,064 | 300 | 29,382 | 10,222 |
| 132.2 | 4,697 | 3.56 | 4.687 | 1.318 | 1,064 | 300 | 29,258 | 10,244 |
| 132.2 | 4,704 | 3.56 | 4.673 | 1.312 | 1,064 | 300 | 29,258 | 10,260 |
| 132.4 | 4,704 | 3.56 | 4.715 | 1.324 | 1,064 | 300 | 29,382 | 10,218 |
| 132.9 | 4,719 | 3.57 | 4.743 | 1.327 | 1,064 | 301 | 29,382 | 10,250 |
| 132.5 | 4,709 | 3.57 | 4.687 | 1.315 | 1,064 | 301 | 29,382 | 10,228 |
| 132.7 | 4,717 | 3.57 | 4.729 | 1.324 | 1,064 | 301 | 29,382 | 10,244 |
| 132.6 | 4,715 | 3.57 | 4.687 | 1.313 | 1,064 | 301 | 29,258 | 10,285 |
| 132.1 | 4,699 | 3.56 | 4.687 | 1.317 | 1,064 | 300 | 29,382 | 10,206 |
| 132.2 | 4,700 | 3.56 | 4.673 | 1.313 | 1,064 | 300 | 29,258 | 10,252 |
| 132.5 | 4,712 | 3.57 | 4.687 | 1.314 | 1,064 | 301 | 29,258 | 10,278 |
| 131.9 | 4,696 | 3.56 | 4.645 | 1.306 | 1,064 | 300 | 29,133 | 10,287 |
| 131.6 | 4,686 | 3.55 | 4.604 | 1.298 | 1,064 | 299 | 29,133 | 10,264 |
| 132.0 | 4,697 | 3.56 | 4.673 | 1.314 | 1,064 | 300 | 29,258 | 10,245 |
| 131.8 | 4,692 | 3.55 | 4.659 | 1.312 | 1,064 | 299 | 29,258 | 10,234 |
| 131.6 | 4,684 | 3.55 | 4.631 | 1.306 | 1,064 | 299 | 29,133 | 10,260 |
| 131.4 | 4,682 | 3.54 | 4.604 | 1.299 | 1,064 | 299 | 29,133 | 10,255 |
| 131.0 | 4,671 | 3.54 | 4.590 | 1.298 | 1,064 | 298 | 29,009 | 10,277 |
| 130.9 | 4,667 | 3.53 | 4.562 | 1.291 | 1,064 | 298 | 29,009 | 10,268 |
| 130.1 | 4,641 | 3.51 | 4.534 | 1.290 | 1,064 | 296 | 28,884 | 10,253 |
| 131.3 | 4,684 | 3.55 | 4.604 | 1.298 | 1,064 | 299 | 29,133 | 10,260 |
| 130.9 | 4,667 | 3.53 | 4.576 | 1.295 | 1,064 | 298 | 29,009 | 10,268 |
| 130.4 | 4,651 | 3.52 | 4.562 | 1.295 | 1,064 | 297 | 29,009 | 10,233 |
| 130.5 | 4,661 | 3.53 | 4.548 | 1.289 | 1,064 | 297 | 28,884 | 10,299 |
| 130.8 | 4,668 | 3.53 | 4.590 | 1.299 | 1,064 | 298 | 29,009 | 10,270 |
| 130.7 | 4,665 | 3.53 | 4.562 | 1.292 | 1,064 | 298 | 28,884 | 10,306 |
| 131.1 | 4,682 | 3.55 | 4.590 | 1.295 | 1,064 | 299 | 29,009 | 10,301 |
| 131.1 | 4,680 | 3.54 | 4.604 | 1.299 | 1,064 | 299 | 29,009 | 10,295 |
| 130.5 | 4,663 | 3.53 | 4.562 | 1.292 | 1,064 | 298 | 29,009 | 10,259 |
| 130.5 | 4,663 | 3.53 | 4.576 | 1.296 | 1,064 | 298 | 29,009 | 10,257 |
| 130.0 | 4,651 | 3.52 | 4.520 | 1.284 | 1,064 | 297 | 28,884 | 10,275 |
| 130.2 | 4,654 | 3.52 | 4.548 | 1.291 | 1,064 | 297 | 28,884 | 10,283 |
| 131.2 | 4,688 | 3.55 | 4.604 | 1.297 | 1,064 | 299 | 29,133 | 10,268 |
| 130.9 | 4,677 | 3.54 | 4.590 | 1.296 | 1,064 | 298 | 29,009 | 10,289 |
| 131.0 | 4,682 | 3.54 | 4.590 | 1.295 | 1,064 | 299 | 29,009 | 10,299 |
| 130.3 | 4,660 | 3.53 | 4.548 | 1.289 | 1,064 | 297 | 28,884 | 10,295 |
| 129.9 | 4,645 | 3.52 | 4.520 | 1.285 | 1,064 | 296 | 28,760 | 10,308 |
| 130.4 | 4,659 | 3.53 | 4.562 | 1.293 | 1,064 | 297 | 29,009 | 10,250 |
| 130.7 | 4,668 | 3.53 | 4.576 | 1.295 | 1,064 | 298 | 29,009 | 10,270 |
| 130.4 | 4,663 | 3.53 | 4.548 | 1.288 | 1,064 | 298 | 28,884 | 10,302 |
| 130.1 | 4,650 | 3.52 | 4.548 | 1.292 | 1,064 | 297 | 28,884 | 10,275 |
| 130.6 | 4,667 | 3.53 | 4.562 | 1.291 | 1,064 | 298 | 28,884 | 10,312 |
| 130.8 | 4,676 | 3.54 | 4.576 | 1.292 | 1,064 | 298 | 29,009 | 10,287 |
| 131.3 | 4,685 | 3.55 | 4.618 | 1.302 | 1,064 | 299 | 29,133 | 10,262 |
| 130.6 | 4,668 | 3.53 | 4.562 | 1.291 | 1,064 | 298 | 28,884 | 10,313 |
| 131.3 | 4,688 | 3.55 | 4.604 | 1.297 | 1,064 | 299 | 29,133 | 10,269 |
| 131.6 | 4,701 | 3.56 | 4.631 | 1.301 | 1,064 | 300 | 29,133 | 10,297 |
| 131.8 | 4,701 | 3.56 | 4.659 | 1.309 | 1,064 | 300 | 29,133 | 10,298 |
| 131.6 | 4,697 | 3.56 | 4.618 | 1.298 | 1,064 | 300 | 29,009 | 10,333 |
| 131.6 | 4,698 | 3.56 | 4.604 | 1.294 | 1,064 | 300 | 29,009 | 10,335 |
| 132.6 | 4,727 | 3.58 | 4.673 | 1.306 | 1,064 | 302 | 29,133 | 10,355 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 133.4 | 4,751 | 3.60 | 4.715 | 1.311 | 1,064 | 303 | 29,133 | 10,406 |
| 135.1 | 4,806 | 3.64 | 4.771 | 1.311 | 1,064 | 307 | 29,133 | 10,527 |
| 135.1 | 4,806 | 3.64 | 4.771 | 1.311 | 1,064 | 307 | 29,133 | 10,528 |
| 135.9 | 4,830 | 3.66 | 4.784 | 1.308 | 1,064 | 308 | 29,009 | 10,627 |
| 136.7 | 4,854 | 3.68 | 4.798 | 1.306 | 1,064 | 310 | 29,009 | 10,678 |
| 137.5 | 4,881 | 3.70 | 4.826 | 1.306 | 1,064 | 312 | 28,884 | 10,785 |
| 137.7 | 4,891 | 3.70 | 4.812 | 1.299 | 1,064 | 312 | 28,884 | 10,807 |
| 138.4 | 4,913 | 3.72 | 4.840 | 1.301 | 1,064 | 314 | 28,884 | 10,854 |
| 138.8 | 4,920 | 3.73 | 4.896 | 1.314 | 1,064 | 314 | 29,009 | 10,824 |
| 138.8 | 4,923 | 3.73 | 4.854 | 1.302 | 1,064 | 314 | 28,760 | 10,925 |
| 140.1 | 4,963 | 3.76 | 4.951 | 1.318 | 1,064 | 317 | 29,009 | 10,918 |
| 140.7 | 4,979 | 3.77 | 4.979 | 1.321 | 1,064 | 318 | 28,884 | 11,002 |
| 141.5 | 5,001 | 3.79 | 5.007 | 1.322 | 1,064 | 319 | 28,884 | 11,050 |
| 141.6 | 5,004 | 3.79 | 5.007 | 1.321 | 1,064 | 319 | 28,884 | 11,056 |
| 142.1 | 5,019 | 3.80 | 5.035 | 1.325 | 1,064 | 320 | 28,760 | 11,137 |
| 142.5 | 5,030 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,760 | 11,163 |
| 142.5 | 5,027 | 3.81 | 5.035 | 1.323 | 1,064 | 321 | 28,760 | 11,154 |
| 143.5 | 5,059 | 3.83 | 5.146 | 1.343 | 1,064 | 323 | 28,884 | 11,178 |
| 143.6 | 5,058 | 3.83 | 5.146 | 1.344 | 1,064 | 323 | 28,884 | 11,175 |
| 143.5 | 5,056 | 3.83 | 5.118 | 1.337 | 1,064 | 323 | 28,884 | 11,172 |
| 143.9 | 5,066 | 3.84 | 5.174 | 1.349 | 1,064 | 323 | 29,009 | 11,145 |
| 143.3 | 5,051 | 3.82 | 5.104 | 1.335 | 1,064 | 322 | 28,760 | 11,208 |
| 142.5 | 5,032 | 3.81 | 5.007 | 1.314 | 1,064 | 321 | 28,760 | 11,167 |
| 141.9 | 5,007 | 3.79 | 4.951 | 1.306 | 1,064 | 320 | 28,511 | 11,208 |
| 141.8 | 5,004 | 3.79 | 4.951 | 1.307 | 1,064 | 319 | 28,511 | 11,202 |
| 143.1 | 5,048 | 3.82 | 5.077 | 1.328 | 1,064 | 322 | 28,760 | 11,202 |
| 142.9 | 5,038 | 3.81 | 5.049 | 1.324 | 1,064 | 322 | 28,760 | 11,179 |
| 143.5 | 5,055 | 3.83 | 5.118 | 1.337 | 1,064 | 323 | 28,884 | 11,169 |
| 143.5 | 5,058 | 3.83 | 5.118 | 1.336 | 1,064 | 323 | 28,884 | 11,176 |
| 143.5 | 5,056 | 3.83 | 5.118 | 1.337 | 1,064 | 323 | 28,884 | 11,171 |
| 142.9 | 5,042 | 3.82 | 5.049 | 1.323 | 1,064 | 322 | 28,760 | 11,187 |
| 142.5 | 5,026 | 3.81 | 4.993 | 1.312 | 1,064 | 321 | 28,635 | 11,200 |
| 142.9 | 5,036 | 3.81 | 5.035 | 1.320 | 1,064 | 321 | 28,635 | 11,223 |
| 143.3 | 5,046 | 3.82 | 5.077 | 1.329 | 1,064 | 322 | 28,760 | 11,196 |
| 142.8 | 5,031 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,760 | 11,164 |
| 143.7 | 5,056 | 3.83 | 5.132 | 1.341 | 1,064 | 323 | 28,884 | 11,172 |
| 143.3 | 5,051 | 3.82 | 5.063 | 1.324 | 1,064 | 322 | 28,760 | 11,208 |
| 143.5 | 5,052 | 3.82 | 5.104 | 1.335 | 1,064 | 322 | 28,760 | 11,210 |
| 143.6 | 5,055 | 3.83 | 5.104 | 1.334 | 1,064 | 323 | 28,760 | 11,218 |
| 142.8 | 5,031 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,760 | 11,164 |
| 143.6 | 5,056 | 3.83 | 5.104 | 1.333 | 1,064 | 323 | 28,884 | 11,170 |
| 143.4 | 5,051 | 3.82 | 5.077 | 1.328 | 1,064 | 322 | 28,760 | 11,207 |
| 144.3 | 5,073 | 3.84 | 5.174 | 1.347 | 1,064 | 324 | 28,884 | 11,208 |
| 144.6 | 5,083 | 3.85 | 5.202 | 1.351 | 1,064 | 324 | 28,884 | 11,232 |
| 143.7 | 5,060 | 3.83 | 5.104 | 1.332 | 1,064 | 323 | 28,884 | 11,180 |
| 143.6 | 5,053 | 3.83 | 5.104 | 1.334 | 1,064 | 322 | 28,760 | 11,213 |
| 143.4 | 5,047 | 3.82 | 5.090 | 1.332 | 1,064 | 322 | 28,884 | 11,152 |
| 144.0 | 5,069 | 3.84 | 5.132 | 1.337 | 1,064 | 323 | 28,884 | 11,198 |
| 143.8 | 5,061 | 3.83 | 5.118 | 1.336 | 1,064 | 323 | 28,884 | 11,182 |
| 143.3 | 5,048 | 3.82 | 5.077 | 1.328 | 1,064 | 322 | 28,760 | 11,201 |
| 143.0 | 5,037 | 3.81 | 5.063 | 1.327 | 1,064 | 321 | 28,760 | 11,177 |
| 143.0 | 5,037 | 3.81 | 5.049 | 1.324 | 1,064 | 321 | 28,760 | 11,177 |
| 143.8 | 5,065 | 3.83 | 5.132 | 1.338 | 1,064 | 323 | 28,884 | 11,190 |
| 143.6 | 5,062 | 3.83 | 5.104 | 1.332 | 1,064 | 323 | 28,760 | 11,233 |
| 142.4 | 5,021 | 3.80 | 4.993 | 1.313 | 1,064 | 320 | 28,635 | 11,190 |
| 143.2 | 5,051 | 3.82 | 5.063 | 1.324 | 1,064 | 322 | 28,760 | 11,207 |
| 143.3 | 5,051 | 3.82 | 5.077 | 1.327 | 1,064 | 322 | 28,884 | 11,160 |
| 143.6 | 5,058 | 3.83 | 5.118 | 1.336 | 1,064 | 323 | 28,884 | 11,176 |
| 143.2 | 5,044 | 3.82 | 5.063 | 1.326 | 1,064 | 322 | 28,760 | 11,192 |
| 144.0 | 5,070 | 3.84 | 5.160 | 1.344 | 1,064 | 324 | 29,009 | 11,154 |
| 144.5 | 5,081 | 3.85 | 5.216 | 1.356 | 1,064 | 324 | 29,009 | 11,177 |
| 144.1 | 5,072 | 3.84 | 5.160 | 1.344 | 1,064 | 324 | 28,884 | 11,205 |
| 143.3 | 5,048 | 3.82 | 5.049 | 1.321 | 1,064 | 322 | 28,760 | 11,202 |
| 142.8 | 5,029 | 3.81 | 5.021 | 1.319 | 1,064 | 321 | 28,760 | 11,160 |
| 143.9 | 5,064 | 3.83 | 5.132 | 1.338 | 1,064 | 323 | 28,884 | 11,190 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 143.5 | 5,055 | 3.83 | 5.118 | 1.337 | 1,064 | 323 | 28,884 | 11,168 |
| 143.4 | 5,047 | 3.82 | 5.090 | 1.332 | 1,064 | 322 | 28,760 | 11,199 |
| 143.5 | 5,052 | 3.82 | 5.090 | 1.331 | 1,064 | 322 | 28,760 | 11,210 |
| 143.0 | 5,038 | 3.81 | 5.035 | 1.320 | 1,064 | 321 | 28,760 | 11,178 |
| 143.2 | 5,040 | 3.82 | 5.090 | 1.334 | 1,064 | 322 | 28,884 | 11,136 |
| 143.8 | 5,060 | 3.83 | 5.118 | 1.336 | 1,064 | 323 | 28,884 | 11,179 |
| 143.3 | 5,040 | 3.82 | 5.090 | 1.334 | 1,064 | 322 | 28,884 | 11,136 |
| 143.5 | 5,051 | 3.82 | 5.104 | 1.335 | 1,064 | 322 | 28,884 | 11,160 |
| 143.1 | 5,039 | 3.82 | 5.035 | 1.320 | 1,064 | 322 | 28,760 | 11,181 |
| 143.1 | 5,039 | 3.82 | 5.035 | 1.320 | 1,064 | 322 | 28,760 | 11,181 |
| 142.9 | 5,034 | 3.81 | 4.993 | 1.310 | 1,064 | 321 | 28,635 | 11,218 |
| 143.7 | 5,050 | 3.82 | 5.146 | 1.346 | 1,064 | 322 | 28,884 | 11,158 |
| 143.0 | 5,035 | 3.81 | 5.021 | 1.317 | 1,064 | 321 | 28,635 | 11,222 |
| 143.4 | 5,046 | 3.82 | 5.090 | 1.332 | 1,064 | 322 | 28,760 | 11,197 |
| 144.0 | 5,064 | 3.83 | 5.118 | 1.335 | 1,064 | 323 | 28,884 | 11,188 |
| 143.1 | 5,033 | 3.81 | 5.035 | 1.321 | 1,064 | 321 | 28,760 | 11,169 |
| 142.4 | 5,014 | 3.80 | 4.965 | 1.308 | 1,064 | 320 | 28,635 | 11,173 |
| 143.0 | 5,029 | 3.81 | 5.021 | 1.319 | 1,064 | 321 | 28,760 | 11,159 |
| 143.4 | 5,046 | 3.82 | 5.077 | 1.329 | 1,064 | 322 | 28,760 | 11,197 |
| 143.6 | 5,050 | 3.82 | 5.104 | 1.335 | 1,064 | 322 | 28,884 | 11,158 |
| 143.3 | 5,041 | 3.82 | 5.090 | 1.334 | 1,064 | 322 | 28,760 | 11,185 |
| 143.0 | 5,030 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,760 | 11,162 |
| 143.2 | 5,039 | 3.82 | 5.049 | 1.323 | 1,064 | 322 | 28,760 | 11,181 |
| 142.8 | 5,025 | 3.80 | 5.035 | 1.323 | 1,064 | 321 | 28,760 | 11,150 |
| 142.8 | 5,027 | 3.81 | 5.021 | 1.319 | 1,064 | 321 | 28,760 | 11,155 |
| 142.9 | 5,031 | 3.81 | 5.007 | 1.315 | 1,064 | 321 | 28,760 | 11,163 |
| 143.4 | 5,047 | 3.82 | 5.077 | 1.328 | 1,064 | 322 | 28,760 | 11,200 |
| 142.9 | 5,033 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,635 | 11,216 |
| 143.6 | 5,052 | 3.82 | 5.118 | 1.338 | 1,064 | 322 | 28,884 | 11,161 |
| 144.0 | 5,061 | 3.83 | 5.146 | 1.343 | 1,064 | 323 | 28,884 | 11,181 |
| 144.2 | 5,071 | 3.84 | 5.160 | 1.344 | 1,064 | 324 | 28,884 | 11,203 |
| 144.3 | 5,069 | 3.84 | 5.174 | 1.348 | 1,064 | 323 | 29,009 | 11,151 |
| 144.1 | 5,065 | 3.84 | 5.132 | 1.338 | 1,064 | 323 | 28,884 | 11,191 |
| 144.5 | 5,078 | 3.85 | 5.202 | 1.353 | 1,064 | 324 | 29,009 | 11,172 |
| 144.2 | 5,070 | 3.84 | 5.174 | 1.348 | 1,064 | 324 | 28,884 | 11,201 |
| 144.1 | 5,066 | 3.84 | 5.146 | 1.342 | 1,064 | 323 | 29,009 | 11,145 |
| 144.3 | 5,065 | 3.83 | 5.188 | 1.353 | 1,064 | 323 | 29,009 | 11,142 |
| 144.3 | 5,066 | 3.84 | 5.174 | 1.349 | 1,064 | 323 | 29,009 | 11,146 |
| 144.3 | 5,067 | 3.84 | 5.174 | 1.349 | 1,064 | 323 | 29,009 | 11,147 |
| 144.6 | 5,076 | 3.84 | 5.188 | 1.350 | 1,064 | 324 | 28,884 | 11,215 |
| 144.4 | 5,070 | 3.84 | 5.146 | 1.341 | 1,064 | 324 | 28,884 | 11,201 |
| 144.3 | 5,067 | 3.84 | 5.146 | 1.341 | 1,064 | 323 | 28,884 | 11,194 |
| 143.9 | 5,054 | 3.83 | 5.132 | 1.341 | 1,064 | 323 | 28,760 | 11,215 |
| 144.1 | 5,061 | 3.83 | 5.118 | 1.336 | 1,064 | 323 | 28,884 | 11,183 |
| 143.9 | 5,051 | 3.82 | 5.132 | 1.342 | 1,064 | 322 | 28,884 | 11,160 |
| 143.3 | 5,035 | 3.81 | 5.063 | 1.328 | 1,064 | 321 | 28,760 | 11,172 |
| 143.1 | 5,030 | 3.81 | 5.021 | 1.318 | 1,064 | 321 | 28,760 | 11,162 |
| 143.0 | 5,028 | 3.81 | 5.021 | 1.319 | 1,064 | 321 | 28,760 | 11,157 |
| 143.0 | 5,028 | 3.81 | 5.021 | 1.319 | 1,064 | 321 | 28,760 | 11,157 |
| 143.3 | 5,036 | 3.81 | 5.049 | 1.324 | 1,064 | 321 | 28,760 | 11,175 |
| 144.0 | 5,061 | 3.83 | 5.104 | 1.332 | 1,064 | 323 | 28,884 | 11,182 |
| 142.5 | 5,016 | 3.80 | 4.979 | 1.311 | 1,064 | 320 | 28,635 | 11,178 |
| 143.2 | 5,033 | 3.81 | 5.063 | 1.329 | 1,064 | 321 | 28,760 | 11,168 |
| 143.2 | 5,033 | 3.81 | 5.077 | 1.332 | 1,064 | 321 | 28,760 | 11,168 |
| 143.1 | 5,030 | 3.81 | 5.049 | 1.326 | 1,064 | 321 | 28,760 | 11,162 |
| 142.7 | 5,021 | 3.80 | 4.993 | 1.313 | 1,064 | 320 | 28,635 | 11,189 |
| 143.3 | 5,038 | 3.81 | 5.077 | 1.331 | 1,064 | 322 | 28,760 | 11,179 |

139.18764 4921.050201 3.725989033 4.920502669 1.320111038 1063.616864 314.0467189 28913.3764 10863.66225

GE Trend Test 1 Unit 2

| | 7268816_U | 7268816_U1_RX | 7268816_U | 7268816_U1_R | 7268816_U | 7268816_U1 | 7268816_U | 7268816_U1 |
|---------------|-----------|---------------------------|--------------------------|-------------------------|-------------------------------|--------------------------------|-------------------------------|----------------------|
| Time | 1_RX3i.MW | 3i.TE_2032 | 1_RX3i.PT_2027 | X3i.CNT_OPHR | 1_RX3i.TE_2037 | _RX3i.PT_2074 | 1_RX3i.FT_2003 | _RX3i.FT_2000 |
| | SEL | | | S | | | | |
| #!Min | 10 | 0 | 410 | -10000 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 30000 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | | F | | gpm | ACFM |
| #!Description | MW SELECT | FUEL SUPPLY TEMPERATURE A | GAS FUEL SUPPLY PRESSURE | TOTAL OPERATIONAL HOURS | DE-MIN WATER SUPPLY TEMP(x10) | DE-MIN WATER SUPPLY PRESS(x10) | NOX WATER INJECTION FLOW(x10) | GAS FLOW FT2000(x10) |
| 8:27:00 AM | 35.233498 | 65.52653503 | 530.83667 | 28502 | 812 | 645 | 383 | 1478 |
| 8:28:00 AM | 35.233498 | 65.63156128 | 531.01141 | 28562 | 812 | 652 | 384 | 1478 |
| 8:29:00 AM | 35.357998 | 65.70693207 | 531.02856 | 28622 | 812 | 639 | 384 | 1480 |
| 8:30:00 AM | 35.233498 | 65.79548645 | 530.76343 | 28682 | 813 | 637 | 385 | 1479 |
| 8:31:00 AM | 35.233498 | 65.85810852 | 531.12775 | 28742 | 813 | 645 | 385 | 1474 |
| 8:32:00 AM | 35.109001 | 65.98950195 | 531.5611 | 28802 | 812 | 638 | 386 | 1468 |
| 8:33:00 AM | 35.109001 | 66.00862122 | 530.84967 | 28862 | 812 | 634 | 385 | 1486 |
| 8:34:00 AM | 35.109001 | 66.11540222 | 528.27893 | 28922 | 812 | 644 | 389 | 1530 |
| 8:35:00 AM | 34.984501 | 66.05805969 | 522.42987 | 28982 | 812 | 645 | 392 | 1588 |
| 8:36:00 AM | 34.860001 | 66.05519867 | 518.32562 | 29042 | 812 | 642 | 393 | 1617 |
| 8:37:00 AM | 34.860001 | 66.10969543 | 517.40588 | 29102 | 812 | 639 | 393 | 1625 |
| 8:38:00 AM | 34.860001 | 66.25427246 | 517.69922 | 29162 | 812 | 639 | 393 | 1625 |
| 8:39:00 AM | 34.860001 | 66.44235229 | 517.96704 | 29222 | 812 | 646 | 393 | 1621 |
| 8:40:00 AM | 34.984501 | 66.70053101 | 518.29626 | 29282 | 812 | 644 | 392 | 1607 |
| 8:41:00 AM | 34.860001 | 66.88928223 | 521.00238 | 29342 | 812 | 641 | 390 | 1576 |
| 8:42:00 AM | 34.860001 | 67.10988617 | 521.9549 | 29402 | 812 | 640 | 389 | 1556 |
| 8:43:00 AM | 34.860001 | 67.31510925 | 523.0238 | 29462 | 813 | 635 | 389 | 1549 |
| 8:44:00 AM | 34.860001 | 67.41574097 | 523.85809 | 29522 | 813 | 645 | 389 | 1546 |
| 8:45:00 AM | 34.860001 | 67.56669617 | 523.79169 | 29582 | 813 | 645 | 388 | 1544 |
| 8:46:00 AM | 34.7355 | 67.65788269 | 524.67902 | 29642 | 812 | 641 | 388 | 1532 |
| 8:47:00 AM | 34.7355 | 67.77346039 | 525.69714 | 29702 | 814 | 641 | 386 | 1519 |
| 8:48:00 AM | 34.7355 | 67.90771484 | 527.16083 | 29762 | 813 | 643 | 386 | 1490 |
| 8:49:00 AM | 34.7355 | 67.95759583 | 528.61688 | 29822 | 814 | 644 | 389 | 1474 |
| 8:50:00 AM | 34.611 | 68.10458374 | 528.63824 | 29882 | 813 | 636 | 389 | 1467 |
| 8:51:00 AM | 34.611 | 68.18083191 | 529.40198 | 29942 | 813 | 638 | 390 | 1461 |
| 8:52:00 AM | 34.4865 | 68.19796753 | 529.68427 | 30002 | 813 | 643 | 390 | 1459 |
| 8:53:00 AM | 34.4865 | 68.28762054 | 530.19769 | 30062 | 813 | 638 | 389 | 1451 |
| 8:54:00 AM | 34.362 | 68.33068848 | 530.66235 | 30122 | 814 | 641 | 390 | 1445 |
| 8:55:00 AM | 34.362 | 68.35946655 | 530.68866 | 30182 | 814 | 648 | 389 | 1443 |
| 8:56:00 AM | 34.362 | 68.44978333 | 531.42529 | 30242 | 814 | 647 | 389 | 1441 |
| 8:57:00 AM | 34.362 | 68.54667664 | 531.44171 | 30302 | 814 | 648 | 389 | 1439 |
| 8:58:00 AM | 34.362 | 68.53898621 | 531.62744 | 30362 | 814 | 641 | 390 | 1440 |
| 8:59:00 AM | 34.237499 | 68.55722046 | 531.70264 | 30422 | 814 | 643 | 390 | 1439 |
| 9:00:00 AM | 34.237499 | 68.67785645 | 531.80219 | 30482 | 814 | 643 | 389 | 1438 |
| 9:01:00 AM | 34.237499 | 68.7527771 | 532.18518 | 30542 | 815 | 651 | 389 | 1436 |
| 9:02:00 AM | 34.112999 | 68.84309387 | 532.33624 | 30602 | 814 | 642 | 389 | 1432 |
| 9:03:00 AM | 34.112999 | 68.89164734 | 532.80316 | 30662 | 815 | 640 | 389 | 1433 |
| 9:04:00 AM | 34.112999 | 68.9806366 | 532.77722 | 30722 | 815 | 638 | 390 | 1431 |
| 9:05:00 AM | 33.988499 | 69.11006165 | 533.2052 | 30782 | 815 | 643 | 388 | 1431 |
| 9:06:00 AM | 33.988499 | 69.1816864 | 533.57526 | 30842 | 815 | 637 | 388 | 1429 |
| 9:07:00 AM | 33.864002 | 69.28979492 | 533.69312 | 30902 | 816 | 632 | 388 | 1424 |
| 9:08:00 AM | 33.864002 | 69.36581421 | 534.20618 | 30962 | 816 | 637 | 387 | 1420 |
| 9:09:00 AM | 33.739502 | 69.48007202 | 533.57257 | 31022 | 816 | 646 | 388 | 1420 |
| 9:10:00 AM | 33.864002 | 69.52511597 | 534.81958 | 31082 | 816 | 641 | 388 | 1418 |
| 9:11:00 AM | 33.739502 | 69.66333008 | 534.60828 | 31142 | 816 | 638 | 388 | 1416 |
| 9:12:00 AM | 33.739502 | 69.76506042 | 535.02637 | 31202 | 816 | 644 | 389 | 1417 |
| 9:13:00 AM | 33.739502 | 69.86129761 | 535.05725 | 31262 | 817 | 642 | 388 | 1416 |
| 9:14:00 AM | 33.739502 | 69.90480804 | 535.19843 | 31322 | 817 | 636 | 388 | 1417 |
| 9:15:00 AM | 33.739502 | 70.01686859 | 535.03668 | 31382 | 817 | 644 | 388 | 1418 |
| 9:16:00 AM | 33.615002 | 70.10058594 | 535.80682 | 31442 | 817 | 643 | 389 | 1416 |
| 9:17:00 AM | 33.490501 | 70.15771484 | 535.71338 | 31502 | 817 | 643 | 389 | 1412 |
| 9:18:00 AM | 33.739502 | 70.2227478 | 535.79846 | 31562 | 817 | 635 | 388 | 1416 |
| 9:19:00 AM | 33.739502 | 70.30867004 | 535.86829 | 31622 | 817 | 638 | 388 | 1414 |
| 9:20:00 AM | 33.615002 | 70.39699554 | 535.87091 | 31682 | 817 | 640 | 389 | 1412 |

| | | | | | | | | |
|------------|-----------|-------------|-----------|-------|-----------|------------|-----------|------------|
| 9:21:00 AM | 33.739502 | 70.44511414 | 536.47516 | 31742 | 817 | 634 | 388 | 1410 |
| 9:22:00 AM | 33.615002 | 70.48071289 | 536.43512 | 31802 | 817 | 644 | 389 | 1410 |
| 9:23:00 AM | 33.615002 | 70.58683777 | 536.34204 | 31862 | 817 | 641 | 389 | 1410 |
| 9:24:00 AM | 33.490501 | 70.6397934 | 536.5755 | 31922 | 817 | 638 | 388 | 1409 |
| 9:25:00 AM | 33.490501 | 70.65429688 | 536.3512 | 31982 | 818 | 643 | 388 | 1411 |
| 9:26:00 AM | 33.490501 | 70.73690796 | 536.3764 | 32042 | 818 | 638 | 388 | 1409 |
| 9:27:00 AM | 33.490501 | 70.75844574 | 536.69568 | 32102 | 818 | 641 | 388 | 1407 |
| 9:28:00 AM | 33.490501 | 70.80195618 | 536.77844 | 32162 | 818 | 641 | 387 | 1407 |
| 9:29:00 AM | 33.490501 | 70.86061859 | 536.66516 | 32222 | 818 | 634 | 388 | 1406 |
| 9:30:00 AM | 33.365997 | 70.95576477 | 536.96692 | 32282 | 818 | 639 | 387 | 1403 |
| 9:31:00 AM | 33.365997 | 71.04057312 | 536.82001 | 32342 | 818 | 644 | 387 | 1403 |
| 9:32:00 AM | 33.365997 | 71.08320618 | 537.09509 | 32402 | 818 | 641 | 387 | 1402 |
| 9:33:00 AM | 33.365997 | 71.1504364 | 536.48358 | 32462 | 818 | 642 | 387 | 1406 |
| 9:34:00 AM | 33.117001 | 71.20910645 | 537.14618 | 32522 | 819 | 653 | 388 | 1399 |
| 9:35:00 AM | 33.241501 | 71.31018066 | 537.14581 | 32582 | 819 | 637 | 387 | 1401 |
| 9:36:00 AM | 33.117001 | 71.39345551 | 537.13666 | 32642 | 819 | 638 | 388 | 1400 |
| 9:37:00 AM | 33.241501 | 71.49914551 | 537.03137 | 32702 | 820 | 645 | 388 | 1400 |
| 9:38:00 AM | 33.241501 | 71.53385925 | 537.05884 | 32762 | 819 | 634 | 388 | 1401 |
| 9:39:00 AM | 33.241501 | 71.58022308 | 537.27972 | 32822 | 819 | 634 | 388 | 1402 |
| Average | 34.16587 | 68.83036606 | 531.51584 | 30662 | 815.09589 | 641.109589 | 388.36986 | 1457.38356 |

Montrose corrected - GE Trend Test 1 Unit 2

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | | BTU/SCF (68F) | MM BTU/Hr | | BTU/KWH |
|----------|-----------|----------|--------------------------------|---------------------|--|---------------|------------|--------|-----------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | | HHV | Heat Input | Kw | Heat Rate |
| 147.8 | 5,485 | 4.06 | 5.327 | 1.312 | | 1,024 | 337 | 35,233 | 9,563 |
| 147.8 | 5,487 | 4.06 | 5.341 | 1.315 | | 1,024 | 337 | 35,233 | 9,566 |
| 148.0 | 5,494 | 4.07 | 5.341 | 1.313 | | 1,024 | 338 | 35,358 | 9,545 |
| 147.9 | 5,488 | 4.06 | 5.355 | 1.318 | | 1,024 | 337 | 35,233 | 9,568 |
| 147.4 | 5,473 | 4.05 | 5.355 | 1.322 | | 1,024 | 336 | 35,233 | 9,542 |
| 146.8 | 5,455 | 4.04 | 5.369 | 1.330 | | 1,024 | 335 | 35,109 | 9,544 |
| 148.6 | 5,515 | 4.08 | 5.355 | 1.312 | | 1,024 | 339 | 35,109 | 9,649 |
| 153.0 | 5,651 | 4.18 | 5.410 | 1.294 | | 1,024 | 347 | 35,109 | 9,888 |
| 158.8 | 5,802 | 4.29 | 5.452 | 1.270 | | 1,024 | 356 | 34,985 | 10,188 |
| 161.7 | 5,863 | 4.34 | 5.466 | 1.260 | | 1,024 | 360 | 34,860 | 10,332 |
| 162.5 | 5,882 | 4.35 | 5.466 | 1.256 | | 1,024 | 361 | 34,860 | 10,365 |
| 162.5 | 5,885 | 4.36 | 5.466 | 1.255 | | 1,024 | 362 | 34,860 | 10,371 |
| 162.1 | 5,874 | 4.35 | 5.466 | 1.257 | | 1,024 | 361 | 34,860 | 10,350 |
| 160.7 | 5,827 | 4.31 | 5.452 | 1.264 | | 1,024 | 358 | 34,985 | 10,231 |
| 157.6 | 5,743 | 4.25 | 5.424 | 1.276 | | 1,024 | 353 | 34,860 | 10,120 |
| 155.6 | 5,681 | 4.20 | 5.410 | 1.287 | | 1,024 | 349 | 34,860 | 10,010 |
| 154.9 | 5,666 | 4.19 | 5.410 | 1.290 | | 1,024 | 348 | 34,860 | 9,985 |
| 154.6 | 5,664 | 4.19 | 5.410 | 1.291 | | 1,024 | 348 | 34,860 | 9,981 |
| 154.4 | 5,656 | 4.19 | 5.396 | 1.289 | | 1,024 | 347 | 34,860 | 9,967 |
| 153.2 | 5,621 | 4.16 | 5.396 | 1.297 | | 1,024 | 345 | 34,736 | 9,941 |
| 151.9 | 5,584 | 4.13 | 5.369 | 1.299 | | 1,024 | 343 | 34,736 | 9,875 |
| 149.0 | 5,492 | 4.06 | 5.369 | 1.321 | | 1,024 | 337 | 34,736 | 9,713 |
| 147.4 | 5,448 | 4.03 | 5.410 | 1.342 | | 1,024 | 335 | 34,736 | 9,634 |
| 146.7 | 5,422 | 4.01 | 5.410 | 1.348 | | 1,024 | 333 | 34,611 | 9,623 |
| 146.1 | 5,408 | 4.00 | 5.424 | 1.355 | | 1,024 | 332 | 34,611 | 9,598 |
| 145.9 | 5,403 | 4.00 | 5.424 | 1.356 | | 1,024 | 332 | 34,486 | 9,624 |
| 145.1 | 5,379 | 3.98 | 5.410 | 1.359 | | 1,024 | 330 | 34,486 | 9,580 |
| 144.5 | 5,361 | 3.97 | 5.424 | 1.367 | | 1,024 | 329 | 34,362 | 9,583 |
| 144.3 | 5,354 | 3.96 | 5.410 | 1.366 | | 1,024 | 329 | 34,362 | 9,571 |
| 144.1 | 5,354 | 3.96 | 5.410 | 1.366 | | 1,024 | 329 | 34,362 | 9,570 |
| 143.9 | 5,346 | 3.96 | 5.410 | 1.367 | | 1,024 | 328 | 34,362 | 9,557 |
| 144.0 | 5,352 | 3.96 | 5.424 | 1.370 | | 1,024 | 329 | 34,362 | 9,567 |
| 143.9 | 5,349 | 3.96 | 5.424 | 1.370 | | 1,024 | 329 | 34,237 | 9,597 |
| 143.8 | 5,346 | 3.96 | 5.410 | 1.367 | | 1,024 | 328 | 34,237 | 9,592 |
| 143.6 | 5,342 | 3.95 | 5.410 | 1.368 | | 1,024 | 328 | 34,237 | 9,585 |
| 143.2 | 5,329 | 3.94 | 5.410 | 1.372 | | 1,024 | 327 | 34,113 | 9,596 |
| 143.3 | 5,337 | 3.95 | 5.410 | 1.370 | | 1,024 | 328 | 34,113 | 9,611 |
| 143.1 | 5,330 | 3.94 | 5.424 | 1.375 | | 1,024 | 327 | 34,113 | 9,597 |
| 143.1 | 5,334 | 3.95 | 5.396 | 1.367 | | 1,024 | 328 | 33,988 | 9,640 |
| 142.9 | 5,330 | 3.94 | 5.396 | 1.368 | | 1,024 | 327 | 33,988 | 9,633 |
| 142.4 | 5,312 | 3.93 | 5.396 | 1.373 | | 1,024 | 326 | 33,864 | 9,636 |
| 142.0 | 5,302 | 3.92 | 5.383 | 1.372 | | 1,024 | 326 | 33,864 | 9,618 |
| 142.0 | 5,296 | 3.92 | 5.396 | 1.377 | | 1,024 | 325 | 33,740 | 9,643 |
| 141.8 | 5,301 | 3.92 | 5.396 | 1.376 | | 1,024 | 326 | 33,864 | 9,615 |
| 141.6 | 5,291 | 3.92 | 5.396 | 1.378 | | 1,024 | 325 | 33,740 | 9,634 |
| 141.7 | 5,299 | 3.92 | 5.410 | 1.380 | | 1,024 | 326 | 33,740 | 9,648 |
| 141.6 | 5,296 | 3.92 | 5.396 | 1.377 | | 1,024 | 325 | 33,740 | 9,641 |
| 141.7 | 5,301 | 3.92 | 5.396 | 1.376 | | 1,024 | 326 | 33,740 | 9,651 |
| 141.8 | 5,303 | 3.92 | 5.396 | 1.375 | | 1,024 | 326 | 33,740 | 9,655 |
| 141.6 | 5,303 | 3.92 | 5.410 | 1.379 | | 1,024 | 326 | 33,615 | 9,690 |
| 141.2 | 5,287 | 3.91 | 5.410 | 1.383 | | 1,024 | 325 | 33,491 | 9,697 |
| 141.6 | 5,303 | 3.92 | 5.396 | 1.375 | | 1,024 | 326 | 33,740 | 9,654 |
| 141.4 | 5,296 | 3.92 | 5.396 | 1.377 | | 1,024 | 325 | 33,740 | 9,642 |
| 141.2 | 5,288 | 3.91 | 5.410 | 1.382 | | 1,024 | 325 | 33,615 | 9,664 |

| | | | | | | | | |
|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|
| 141.0 | 5,287 | 3.91 | 5.396 | 1.379 | 1,024 | 325 | 33,740 | 9,625 |
| 141.0 | 5,286 | 3.91 | 5.410 | 1.383 | 1,024 | 325 | 33,615 | 9,660 |
| 141.0 | 5,286 | 3.91 | 5.410 | 1.383 | 1,024 | 325 | 33,615 | 9,659 |
| 140.9 | 5,284 | 3.91 | 5.396 | 1.380 | 1,024 | 325 | 33,491 | 9,692 |
| 141.1 | 5,289 | 3.91 | 5.396 | 1.379 | 1,024 | 325 | 33,491 | 9,702 |
| 140.9 | 5,282 | 3.91 | 5.396 | 1.380 | 1,024 | 324 | 33,491 | 9,688 |
| 140.7 | 5,278 | 3.91 | 5.396 | 1.382 | 1,024 | 324 | 33,491 | 9,680 |
| 140.7 | 5,278 | 3.91 | 5.383 | 1.378 | 1,024 | 324 | 33,491 | 9,682 |
| 140.6 | 5,274 | 3.90 | 5.396 | 1.383 | 1,024 | 324 | 33,491 | 9,673 |
| 140.3 | 5,265 | 3.90 | 5.383 | 1.381 | 1,024 | 323 | 33,366 | 9,693 |
| 140.3 | 5,264 | 3.90 | 5.383 | 1.382 | 1,024 | 323 | 33,366 | 9,691 |
| 140.2 | 5,263 | 3.89 | 5.383 | 1.382 | 1,024 | 323 | 33,366 | 9,689 |
| 140.6 | 5,272 | 3.90 | 5.383 | 1.380 | 1,024 | 324 | 33,366 | 9,706 |
| 139.9 | 5,252 | 3.89 | 5.396 | 1.388 | 1,024 | 323 | 33,117 | 9,742 |
| 140.1 | 5,259 | 3.89 | 5.383 | 1.383 | 1,024 | 323 | 33,242 | 9,719 |
| 140.0 | 5,256 | 3.89 | 5.396 | 1.387 | 1,024 | 323 | 33,117 | 9,748 |
| 140.0 | 5,255 | 3.89 | 5.396 | 1.388 | 1,024 | 323 | 33,242 | 9,710 |
| 140.1 | 5,259 | 3.89 | 5.396 | 1.387 | 1,024 | 323 | 33,242 | 9,717 |
| 140.2 | 5,264 | 3.90 | 5.396 | 1.385 | 1,024 | 323 | 33,242 | 9,728 |
| 145.738356 | 5412.916851 | 4.005973899 | 5.401577511 | 1.349715756 | 1023.789904 | 332.5013774 | 34165.8702 | 9730.709803 |

GE Trend Test 2 Unit 2

| Time | 7268816_U1_ RX3i.MWSEL | 7268816_U1_RX 3i.TE_2032 | 7268816_U 1_RX3i.PT_ 2027 | 7268816_U1_R X3i.CNT_OPHR S | 7268816_U1 _RX3i.TE_20 37 | 7268816_U 1_RX3i.PT_ 2074 | 7268816_U 1_RX3i.FT_ 2003 | 7268816_U1 _RX3i.FT_20 00 |
|---------------|------------------------|---------------------------|---------------------------|-----------------------------|-------------------------------|--------------------------------|-------------------------------|---------------------------|
| #!Min | 10 | 0 | 410 | -10000 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 30000 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | | F | | gpm | ACFM |
| #!Description | MW SELECT | FUEL SUPPLY TEMPERATURE A | GAS FUEL SUPPLY PRESSURE | TOTAL OPERATIONAL HOURS | DE-MIN WATER SUPPLY TEMP(x10) | DE-MIN WATER SUPPLY PRESS(x10) | NOX WATER INJECTION FLOW(x10) | GAS FLOW FT2000(x10) |
| 9:55:00 AM | 32.99250031 | 72.64523315 | 535.90906 | 33782 | 820 | 644 | 389 | 1408 |
| 9:56:00 AM | 32.99250031 | 72.62854004 | 536.62012 | 33842 | 820 | 643 | 389 | 1408 |
| 9:57:00 AM | 32.86800003 | 72.79377747 | 536.54193 | 33902 | 821 | 637 | 388 | 1405 |
| 9:58:00 AM | 32.86800003 | 72.79860687 | 536.29437 | 33962 | 821 | 634 | 388 | 1405 |
| 9:59:00 AM | 32.86800003 | 72.86320496 | 536.26843 | 34022 | 821 | 633 | 389 | 1403 |
| 10:00:00 AM | 32.86800003 | 72.94714355 | 536.24286 | 34082 | 821 | 635 | 389 | 1406 |
| 10:01:00 AM | 32.86800003 | 72.99196625 | 536.32678 | 34142 | 821 | 633 | 388 | 1403 |
| 10:02:00 AM | 32.61899948 | 73.06337738 | 537.09357 | 34202 | 822 | 638 | 388 | 1396 |
| 10:03:00 AM | 32.61899948 | 73.16972351 | 537.31061 | 34262 | 822 | 631 | 388 | 1395 |
| 10:04:00 AM | 32.74349976 | 73.21147156 | 537.15228 | 34322 | 822 | 641 | 389 | 1398 |
| 10:05:00 AM | 32.74349976 | 73.1993866 | 537.58142 | 34382 | 821 | 631 | 389 | 1398 |
| 10:06:00 AM | 32.61899948 | 73.33122253 | 537.47845 | 34442 | 822 | 640 | 388 | 1396 |
| 10:07:00 AM | 32.61899948 | 73.38461304 | 536.85321 | 34502 | 822 | 639 | 388 | 1401 |
| 10:08:00 AM | 32.74349976 | 73.48019409 | 536.83832 | 34562 | 822 | 643 | 389 | 1404 |
| 10:09:00 AM | 32.74349976 | 73.53930664 | 536.41608 | 34622 | 822 | 637 | 389 | 1408 |
| 10:10:00 AM | 32.74349976 | 73.55249023 | 536.70709 | 34682 | 822 | 639 | 389 | 1411 |
| 10:11:00 AM | 32.74349976 | 73.6282959 | 536.90894 | 34742 | 822 | 638 | 389 | 1408 |
| 10:12:00 AM | 32.61899948 | 73.75090027 | 537.0058 | 34802 | 823 | 630 | 389 | 1404 |
| 10:13:00 AM | 32.61899948 | 73.79968262 | 537.00311 | 34862 | 823 | 637 | 389 | 1405 |
| 10:14:00 AM | 32.49449921 | 73.91108704 | 537.11908 | 34922 | 823 | 635 | 388 | 1398 |
| 10:15:00 AM | 32.36999893 | 74.00117493 | 537.32703 | 34982 | 823 | 638 | 388 | 1396 |
| 10:16:00 AM | 32.49449921 | 74.09565735 | 537.1618 | 35042 | 823 | 641 | 388 | 1394 |
| 10:17:00 AM | 32.24549866 | 74.18310547 | 537.87976 | 35102 | 823 | 640 | 387 | 1390 |
| 10:18:00 AM | 32.24549866 | 74.29384613 | 538.26239 | 35162 | 824 | 629 | 385 | 1383 |
| 10:19:00 AM | 32.36999893 | 74.46237183 | 538.00409 | 35222 | 824 | 636 | 387 | 1385 |
| 10:20:00 AM | 32.24549866 | 74.50895691 | 538.25476 | 35282 | 824 | 639 | 386 | 1382 |
| 10:21:00 AM | 32.24549866 | 74.56191254 | 537.41357 | 35342 | 824 | 637 | 387 | 1386 |
| 10:22:00 AM | 32.36999893 | 74.6656189 | 537.95453 | 35402 | 824 | 636 | 387 | 1388 |
| 10:23:00 AM | 32.24549866 | 74.65177917 | 538.32416 | 35462 | 824 | 633 | 387 | 1390 |
| 10:24:00 AM | 32.36999893 | 74.71395874 | 537.86334 | 35522 | 825 | 633 | 386 | 1389 |
| 10:25:00 AM | 32.24549866 | 74.77043152 | 538.10406 | 35582 | 824 | 637 | 386 | 1390 |
| 10:26:00 AM | 32.24549866 | 74.81086731 | 537.72333 | 35642 | 825 | 649 | 387 | 1393 |
| 10:27:00 AM | 32.24549866 | 74.87062836 | 537.90076 | 35702 | 825 | 637 | 387 | 1394 |
| 10:28:00 AM | 32.24549866 | 74.90908051 | 537.64441 | 35762 | 824 | 641 | 387 | 1395 |
| 10:29:00 AM | 32.12099838 | 74.91677094 | 537.4613 | 35821 | 825 | 644 | 387 | 1395 |
| 10:30:00 AM | 32.24549866 | 74.98774719 | 537.58948 | 35882 | 825 | 638 | 387 | 1395 |
| 10:31:00 AM | 32.12099838 | 75.03915405 | 537.69739 | 35942 | 825 | 637 | 388 | 1396 |
| 10:32:00 AM | 32.12099838 | 75.09738159 | 537.81378 | 36002 | 825 | 639 | 388 | 1396 |
| 10:33:00 AM | 32.12099838 | 75.17802429 | 537.55548 | 36061 | 826 | 634 | 388 | 1399 |
| 10:34:00 AM | 32.24549866 | 75.22505188 | 537.38916 | 36121 | 826 | 640 | 388 | 1404 |
| 10:35:00 AM | 32.12099838 | 75.32106781 | 538.02472 | 36182 | 826 | 639 | 387 | 1395 |
| 10:36:00 AM | 32.12099838 | 75.39115906 | 538.12048 | 36242 | 826 | 639 | 386 | 1394 |
| 10:37:00 AM | 31.99650192 | 75.47444153 | 537.70087 | 36301 | 826 | 632 | 383 | 1390 |
| 10:38:00 AM | 31.99650192 | 75.55639648 | 537.89996 | 36361 | 827 | 638 | 384 | 1391 |
| 10:39:00 AM | 32.12099838 | 75.63175964 | 538.06592 | 36421 | 827 | 634 | 385 | 1393 |
| 10:40:00 AM | 31.99650192 | 75.67240906 | 538.06439 | 36481 | 827 | 636 | 382 | 1388 |
| 10:41:00 AM | 32.12099838 | 75.74909973 | 537.75885 | 36541 | 828 | 641 | 386 | 1393 |
| 10:42:00 AM | 31.99650192 | 75.83325195 | 538.15479 | 36601 | 827 | 636 | 384 | 1388 |
| 10:43:00 AM | 31.87199974 | 75.86775208 | 538.6709 | 36661 | 828 | 639 | 376 | 1378 |
| 10:44:00 AM | 31.87199974 | 75.95849609 | 538.87427 | 36721 | 829 | 638 | 376 | 1378 |
| 10:45:00 AM | 31.74749947 | 75.96948242 | 538.94293 | 36781 | 830 | 641 | 375 | 1376 |

| | | | | | | | | |
|----------------|------------------|--------------------|------------------|--------------------|-------------------|------------------|------------------|-------------------|
| 10:46:00 AM | 31.87199974 | 76.09472656 | 538.98566 | 36841 | 830 | 639 | 377 | 1380 |
| 10:47:00 AM | 31.74749947 | 76.1257019 | 539.10846 | 36901 | 831 | 633 | 372 | 1375 |
| 10:48:00 AM | 31.87199974 | 76.26985168 | 538.8136 | 36961 | 831 | 640 | 379 | 1383 |
| 10:49:00 AM | 31.87199974 | 76.35510254 | 538.47253 | 37021 | 830 | 638 | 381 | 1388 |
| 10:50:00 AM | 31.87199974 | 76.35400391 | 538.62476 | 37081 | 830 | 633 | 380 | 1387 |
| 10:51:00 AM | 31.74749947 | 76.40629578 | 538.534 | 37141 | 830 | 644 | 377 | 1381 |
| 10:52:00 AM | 31.74749947 | 76.47067261 | 538.56757 | 37201 | 830 | 645 | 377 | 1386 |
| 10:53:00 AM | 31.87199974 | 76.53066254 | 538.48743 | 37261 | 830 | 636 | 380 | 1387 |
| 10:54:00 AM | 31.74749947 | 76.60075378 | 538.94598 | 37321 | 831 | 636 | 374 | 1380 |
| 10:55:00 AM | 31.87199974 | 76.65084839 | 538.5752 | 37381 | 831 | 642 | 378 | 1386 |
| 10:56:00 AM | 31.62299919 | 76.68205261 | 538.99518 | 37441 | 831 | 645 | 374 | 1378 |
| 10:57:00 AM | 31.62299919 | 76.79675293 | 538.99896 | 37501 | 833 | 651 | 368 | 1372 |
| 10:58:00 AM | 31.87199974 | 76.8272934 | 538.44318 | 37561 | 833 | 640 | 375 | 1379 |
| 10:59:00 AM | 31.49849892 | 76.86816406 | 539.38196 | 37621 | 833 | 636 | 367 | 1369 |
| 11:00:00 AM | 31.49849892 | 76.94528198 | 539.71307 | 37681 | 834 | 636 | 362 | 1362 |
| 11:01:00 AM | 31.37400055 | 77.07844543 | 540.15405 | 37741 | 836 | 630 | 357 | 1355 |
| 11:02:00 AM | 31.49849892 | 77.12788391 | 539.94849 | 37801 | 836 | 637 | 359 | 1358 |
| 11:03:00 AM | 31.49849892 | 77.14941406 | 540.19489 | 37861 | 836 | 630 | 357 | 1354 |
| 11:04:00 AM | 31.37400055 | 77.27993011 | 540.38184 | 37921 | 837 | 633 | 352 | 1349 |
| 11:05:00 AM | 31.62299919 | 77.30563354 | 539.82867 | 37981 | 837 | 641 | 361 | 1359 |
| 11:06:00 AM | 31.62299919 | 77.33332825 | 539.92444 | 38041 | 836 | 642 | 362 | 1361 |
| 11:07:00 AM | 31.49849892 | 77.33639526 | 540.19568 | 38101 | 837 | 647 | 357 | 1356 |
| 11:08:00 AM | 31.49849892 | 77.43087769 | 540.19641 | 38161 | 838 | 648 | 356 | 1356 |
| 11:09:00 AM | 31.37400055 | 77.45768738 | 540.46613 | 38221 | 839 | 642 | 354 | 1350 |
| 11:10:00 AM | 31.49849892 | 77.54316711 | 540.35437 | 38281 | 839 | 636 | 354 | 1353 |
| 11:11:00 AM | 31.49849892 | 77.60534668 | 540.21704 | 38341 | 839 | 640 | 356 | 1355 |
| 11:12:00 AM | 31.49849892 | 77.62313843 | 540.32764 | 38401 | 839 | 656 | 356 | 1353 |
| 11:13:00 AM | 31.24950027 | 77.72026062 | 540.42914 | 38461 | 840 | 643 | 350 | 1347 |
| 11:14:00 AM | 31.37400055 | 77.72619629 | 540.54242 | 38521 | 840 | 639 | 352 | 1349 |
| 11:15:00 AM | 31.37400055 | 77.7134552 | 540.1167 | 38581 | 840 | 630 | 353 | 1352 |
| Average | 32.102555 | 75.31442449 | 538.23703 | 36181.48148 | 827.888889 | 638.23457 | 378.69136 | 1384.74074 |

Montrose corrected - GE Trend Test 2 Unit 2

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | | BTU/SCF (68F) | MM BTU/Hr | | BTU/KWH | |
|----------|-----------|----------|--------------------------------|---------------------|--|---------------|------------|----|-----------|--------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | | HHV | Heat Input | Kw | Heat Rate | |
| 140.8 | 5,274 | 3.90 | 5.410 | 1.386 | | 1,024 | 324 | | 32,993 | 9,819 |
| 140.8 | 5,281 | 3.91 | 5.410 | 1.384 | | 1,024 | 324 | | 32,993 | 9,832 |
| 140.5 | 5,269 | 3.90 | 5.396 | 1.384 | | 1,024 | 324 | | 32,868 | 9,847 |
| 140.5 | 5,266 | 3.90 | 5.396 | 1.385 | | 1,024 | 323 | | 32,868 | 9,842 |
| 140.3 | 5,259 | 3.89 | 5.410 | 1.390 | | 1,024 | 323 | | 32,868 | 9,828 |
| 140.6 | 5,270 | 3.90 | 5.410 | 1.387 | | 1,024 | 324 | | 32,868 | 9,848 |
| 140.3 | 5,259 | 3.89 | 5.396 | 1.386 | | 1,024 | 323 | | 32,868 | 9,829 |
| 139.6 | 5,240 | 3.88 | 5.396 | 1.392 | | 1,024 | 322 | | 32,619 | 9,868 |
| 139.5 | 5,238 | 3.88 | 5.396 | 1.392 | | 1,024 | 322 | | 32,619 | 9,865 |
| 139.8 | 5,248 | 3.88 | 5.410 | 1.393 | | 1,024 | 322 | | 32,743 | 9,846 |
| 139.8 | 5,252 | 3.89 | 5.410 | 1.392 | | 1,024 | 323 | | 32,743 | 9,853 |
| 139.6 | 5,244 | 3.88 | 5.396 | 1.391 | | 1,024 | 322 | | 32,619 | 9,875 |
| 140.1 | 5,257 | 3.89 | 5.396 | 1.387 | | 1,024 | 323 | | 32,619 | 9,899 |
| 140.4 | 5,268 | 3.90 | 5.410 | 1.388 | | 1,024 | 324 | | 32,743 | 9,882 |
| 140.8 | 5,279 | 3.91 | 5.410 | 1.385 | | 1,024 | 324 | | 32,743 | 9,903 |
| 141.1 | 5,293 | 3.92 | 5.410 | 1.381 | | 1,024 | 325 | | 32,743 | 9,929 |
| 140.8 | 5,283 | 3.91 | 5.410 | 1.384 | | 1,024 | 325 | | 32,743 | 9,912 |
| 140.4 | 5,269 | 3.90 | 5.410 | 1.387 | | 1,024 | 324 | | 32,619 | 9,923 |
| 140.5 | 5,273 | 3.90 | 5.410 | 1.386 | | 1,024 | 324 | | 32,619 | 9,930 |
| 139.8 | 5,248 | 3.88 | 5.396 | 1.389 | | 1,024 | 322 | | 32,494 | 9,921 |
| 139.6 | 5,242 | 3.88 | 5.396 | 1.391 | | 1,024 | 322 | | 32,370 | 9,948 |
| 139.4 | 5,233 | 3.87 | 5.396 | 1.393 | | 1,024 | 321 | | 32,494 | 9,893 |
| 139.0 | 5,225 | 3.87 | 5.383 | 1.392 | | 1,024 | 321 | | 32,245 | 9,954 |
| 138.3 | 5,202 | 3.85 | 5.355 | 1.391 | | 1,024 | 320 | | 32,245 | 9,910 |
| 138.5 | 5,207 | 3.85 | 5.383 | 1.397 | | 1,024 | 320 | | 32,370 | 9,882 |
| 138.2 | 5,199 | 3.85 | 5.369 | 1.395 | | 1,024 | 319 | | 32,245 | 9,903 |
| 138.6 | 5,206 | 3.85 | 5.383 | 1.397 | | 1,024 | 320 | | 32,245 | 9,917 |
| 138.8 | 5,218 | 3.86 | 5.383 | 1.394 | | 1,024 | 321 | | 32,370 | 9,903 |
| 139.0 | 5,229 | 3.87 | 5.383 | 1.391 | | 1,024 | 321 | | 32,245 | 9,962 |
| 138.9 | 5,221 | 3.86 | 5.369 | 1.389 | | 1,024 | 321 | | 32,370 | 9,908 |
| 139.0 | 5,227 | 3.87 | 5.369 | 1.388 | | 1,024 | 321 | | 32,245 | 9,958 |
| 139.3 | 5,235 | 3.87 | 5.383 | 1.389 | | 1,024 | 322 | | 32,245 | 9,972 |
| 139.4 | 5,240 | 3.88 | 5.383 | 1.388 | | 1,024 | 322 | | 32,245 | 9,983 |
| 139.5 | 5,242 | 3.88 | 5.383 | 1.388 | | 1,024 | 322 | | 32,245 | 9,985 |
| 139.5 | 5,240 | 3.88 | 5.383 | 1.388 | | 1,024 | 322 | | 32,121 | 10,021 |
| 139.5 | 5,241 | 3.88 | 5.383 | 1.388 | | 1,024 | 322 | | 32,245 | 9,984 |
| 139.6 | 5,246 | 3.88 | 5.396 | 1.390 | | 1,024 | 322 | | 32,121 | 10,032 |
| 139.6 | 5,247 | 3.88 | 5.396 | 1.390 | | 1,024 | 322 | | 32,121 | 10,034 |
| 139.9 | 5,256 | 3.89 | 5.396 | 1.387 | | 1,024 | 323 | | 32,121 | 10,051 |
| 140.4 | 5,273 | 3.90 | 5.396 | 1.383 | | 1,024 | 324 | | 32,245 | 10,045 |
| 139.5 | 5,245 | 3.88 | 5.383 | 1.387 | | 1,024 | 322 | | 32,121 | 10,031 |
| 139.4 | 5,242 | 3.88 | 5.369 | 1.384 | | 1,024 | 322 | | 32,121 | 10,025 |
| 139.0 | 5,223 | 3.87 | 5.327 | 1.378 | | 1,024 | 321 | | 31,997 | 10,028 |
| 139.1 | 5,229 | 3.87 | 5.341 | 1.380 | | 1,024 | 321 | | 31,997 | 10,039 |
| 139.3 | 5,238 | 3.88 | 5.355 | 1.381 | | 1,024 | 322 | | 32,121 | 10,017 |
| 138.8 | 5,219 | 3.86 | 5.313 | 1.375 | | 1,024 | 321 | | 31,997 | 10,020 |
| 139.3 | 5,235 | 3.87 | 5.369 | 1.386 | | 1,024 | 322 | | 32,121 | 10,012 |
| 138.8 | 5,220 | 3.86 | 5.341 | 1.382 | | 1,024 | 321 | | 31,997 | 10,022 |
| 137.8 | 5,187 | 3.84 | 5.230 | 1.362 | | 1,024 | 319 | | 31,872 | 9,998 |
| 137.8 | 5,189 | 3.84 | 5.230 | 1.362 | | 1,024 | 319 | | 31,872 | 10,001 |
| 137.6 | 5,182 | 3.84 | 5.216 | 1.360 | | 1,024 | 318 | | 31,747 | 10,027 |

| | | | | | | | | |
|-------|-------|------|-------|-------|-------|-----|--------|--------|
| 138.0 | 5,198 | 3.85 | 5.243 | 1.363 | 1,024 | 319 | 31,872 | 10,018 |
| 137.5 | 5,180 | 3.83 | 5.174 | 1.350 | 1,024 | 318 | 31,747 | 10,023 |
| 138.3 | 5,208 | 3.85 | 5.271 | 1.368 | 1,024 | 320 | 31,872 | 10,037 |
| 138.8 | 5,223 | 3.87 | 5.299 | 1.371 | 1,024 | 321 | 31,872 | 10,067 |
| 138.7 | 5,221 | 3.86 | 5.285 | 1.368 | 1,024 | 321 | 31,872 | 10,062 |
| 138.1 | 5,197 | 3.85 | 5.243 | 1.363 | 1,024 | 319 | 31,747 | 10,056 |
| 138.6 | 5,217 | 3.86 | 5.243 | 1.358 | 1,024 | 320 | 31,747 | 10,093 |
| 138.7 | 5,220 | 3.86 | 5.285 | 1.368 | 1,024 | 321 | 31,872 | 10,060 |
| 138.0 | 5,197 | 3.85 | 5.202 | 1.352 | 1,024 | 319 | 31,747 | 10,056 |
| 138.6 | 5,217 | 3.86 | 5.257 | 1.362 | 1,024 | 320 | 31,872 | 10,054 |
| 137.8 | 5,190 | 3.84 | 5.202 | 1.354 | 1,024 | 319 | 31,623 | 10,082 |
| 137.2 | 5,168 | 3.82 | 5.118 | 1.338 | 1,024 | 317 | 31,623 | 10,039 |
| 137.9 | 5,189 | 3.84 | 5.216 | 1.358 | 1,024 | 319 | 31,872 | 10,001 |
| 136.9 | 5,160 | 3.82 | 5.104 | 1.337 | 1,024 | 317 | 31,498 | 10,063 |
| 136.2 | 5,137 | 3.80 | 5.035 | 1.324 | 1,024 | 316 | 31,498 | 10,018 |
| 135.5 | 5,114 | 3.79 | 4.965 | 1.312 | 1,024 | 314 | 31,374 | 10,014 |
| 135.8 | 5,124 | 3.79 | 4.993 | 1.317 | 1,024 | 315 | 31,498 | 9,992 |
| 135.4 | 5,111 | 3.78 | 4.965 | 1.313 | 1,024 | 314 | 31,498 | 9,967 |
| 134.9 | 5,094 | 3.77 | 4.896 | 1.299 | 1,024 | 313 | 31,374 | 9,973 |
| 135.9 | 5,127 | 3.79 | 5.021 | 1.323 | 1,024 | 315 | 31,623 | 9,958 |
| 136.1 | 5,135 | 3.80 | 5.035 | 1.325 | 1,024 | 315 | 31,623 | 9,975 |
| 135.6 | 5,119 | 3.79 | 4.965 | 1.311 | 1,024 | 314 | 31,498 | 9,982 |
| 135.6 | 5,119 | 3.79 | 4.951 | 1.307 | 1,024 | 314 | 31,498 | 9,982 |
| 135.0 | 5,098 | 3.77 | 4.924 | 1.305 | 1,024 | 313 | 31,374 | 9,982 |
| 135.3 | 5,109 | 3.78 | 4.924 | 1.302 | 1,024 | 314 | 31,498 | 9,963 |
| 135.5 | 5,115 | 3.79 | 4.951 | 1.308 | 1,024 | 314 | 31,498 | 9,975 |
| 135.3 | 5,109 | 3.78 | 4.951 | 1.310 | 1,024 | 314 | 31,498 | 9,962 |
| 134.7 | 5,087 | 3.76 | 4.868 | 1.293 | 1,024 | 312 | 31,250 | 9,999 |
| 134.9 | 5,095 | 3.77 | 4.896 | 1.298 | 1,024 | 313 | 31,374 | 9,976 |
| 135.2 | 5,103 | 3.78 | 4.910 | 1.300 | 1,024 | 313 | 31,374 | 9,991 |

138.474074 5208.527723 3.854710258 5.266965638 1.366064085 1023.789904 319.9462859 32102.555 9967.153284

GE Trend Test 3 Unit 2

| Time | 7268816_U1_R X3i.MWSEL | 7268816_U 1_RX3i.TE_2 | 7268816_U 1_RX3i.PT_ | 7268816_U1_R X3i.CNT_OPHR | 7268816_U1 _RX3i.TE_20 | 7268816_U 1_RX3i.PT_ | 7268816_U 1_RX3i.FT_ | 7268816_U1 _RX3i.FT_20 |
|---------------|---------------------------|-------------------------------------|--------------------------------|-------------------------------|--|---|--|---------------------------|
| | | 032 | 2027 | S | 37 | 2074 | 2003 | 00 |
| #!Min | 10 | 0 | 410 | -10000 | 400 | -100 | -100 | 800 |
| #!Max | 50 | 100 | 480 | 30000 | 900 | 300 | 500 | 1700 |
| #!Units | MW | F | psig | | F | | gpm | ACFM |
| #!Description | MW SELECT | FUEL SUPPLY TEMPERAT URE A | GAS FUEL SUPPLY PRESSURE | TOTAL OPERATIONAL HOURS | DE-MIN WATER SUPPLY TEMP(x10) | DE-MIN WATER SUPPLY PRESS(x10) | NOX WATER INJECTION FLOW(x10) | GAS FLOW FT2000(x10) |
| 11:33:00 AM | 31.00049973 | 78.8683319 | 539.93585 | 39661 | 843 | 645 | 350 | 1356 |
| 11:34:00 AM | 31.00049973 | 78.972702 | 540.27808 | 39721 | 844 | 634 | 349 | 1355 |
| 11:35:00 AM | 31.125 | 78.9531479 | 540.0274 | 39781 | 844 | 637 | 353 | 1357 |
| 11:36:00 AM | 30.87599945 | 78.9953308 | 540.66486 | 39841 | 844 | 655 | 347 | 1350 |
| 11:37:00 AM | 30.87599945 | 79.0577393 | 540.41803 | 39901 | 845 | 654 | 347 | 1348 |
| 11:38:00 AM | 31.00049973 | 79.1230011 | 540.58514 | 39961 | 844 | 649 | 346 | 1347 |
| 11:39:00 AM | 30.87599945 | 79.1331024 | 540.49512 | 40021 | 846 | 645 | 344 | 1342 |
| 11:40:00 AM | 30.87599945 | 79.1610107 | 540.68396 | 40081 | 846 | 639 | 343 | 1344 |
| 11:41:00 AM | 30.87599945 | 79.2157211 | 540.96393 | 40141 | 847 | 654 | 341 | 1336 |
| 11:42:00 AM | 30.75150108 | 79.2739487 | 541.17603 | 40201 | 847 | 632 | 340 | 1336 |
| 11:43:00 AM | 30.87599945 | 79.3088837 | 541.24127 | 40261 | 848 | 626 | 342 | 1339 |
| 11:44:00 AM | 31.00049973 | 79.3479919 | 541.12567 | 40321 | 847 | 636 | 344 | 1340 |
| 11:45:00 AM | 31.00049973 | 79.3449249 | 540.95441 | 40381 | 847 | 664 | 343 | 1341 |
| 11:46:00 AM | 30.87599945 | 79.3877716 | 541.55371 | 40441 | 848 | 634 | 341 | 1333 |
| 11:47:00 AM | 30.75150108 | 79.4824677 | 540.94373 | 40501 | 848 | 644 | 340 | 1330 |
| 11:48:00 AM | 30.75150108 | 79.4416046 | 541.48157 | 40561 | 848 | 647 | 340 | 1332 |
| 11:49:00 AM | 30.75150108 | 79.509491 | 541.34619 | 40621 | 849 | 616 | 339 | 1331 |
| 11:50:00 AM | 30.87599945 | 79.5789337 | 541.72461 | 40681 | 849 | 656 | 340 | 1329 |
| 11:51:00 AM | 30.87599945 | 79.5644226 | 541.91992 | 40741 | 849 | 642 | 340 | 1330 |
| 11:52:00 AM | 30.75150108 | 79.5980454 | 542.27582 | 40801 | 849 | 655 | 336 | 1322 |
| 11:53:00 AM | 30.75150108 | 79.6217804 | 542.05072 | 40861 | 851 | 617 | 337 | 1324 |
| 11:54:00 AM | 30.50250053 | 79.7382355 | 543.01855 | 40921 | 851 | 650 | 331 | 1309 |
| 11:55:00 AM | 30.75150108 | 79.7953644 | 542.21973 | 40981 | 852 | 650 | 336 | 1318 |
| 11:56:00 AM | 30.62700081 | 79.8705063 | 542.79535 | 41041 | 852 | 661 | 332 | 1312 |
| 11:57:00 AM | 30.50250053 | 79.8601837 | 543.0376 | 41101 | 852 | 647 | 332 | 1313 |
| 11:58:00 AM | 30.50250053 | 79.9098358 | 542.76941 | 41161 | 852 | 641 | 334 | 1319 |
| 11:59:00 AM | 30.50250053 | 79.9124756 | 542.30023 | 41221 | 852 | 625 | 335 | 1327 |
| 12:00:00 PM | 30.62700081 | 79.9614716 | 541.37097 | 41281 | 852 | 670 | 339 | 1339 |
| 12:01:00 PM | 30.50250053 | 79.9865265 | 541.79742 | 41341 | 851 | 633 | 337 | 1336 |
| 12:02:00 PM | 30.75150108 | 79.9944305 | 540.91394 | 41401 | 852 | 633 | 341 | 1342 |
| 12:03:00 PM | 30.62700081 | 80.0203552 | 540.37762 | 41461 | 852 | 647 | 342 | 1347 |
| 12:04:00 PM | 30.62700081 | 80.0610046 | 540.28571 | 41521 | 851 | 633 | 343 | 1353 |
| 12:05:00 PM | 30.62700081 | 80.1326447 | 539.68713 | 41581 | 850 | 638 | 349 | 1364 |
| 12:06:00 PM | 30.50250053 | 80.1447296 | 539.73981 | 41641 | 851 | 637 | 349 | 1370 |
| 12:07:00 PM | 30.50250053 | 80.1583481 | 539.33582 | 41701 | 850 | 648 | 351 | 1380 |
| 12:08:00 PM | 30.25349998 | 80.1603241 | 539.64673 | 41761 | 850 | 636 | 347 | 1375 |
| 12:09:00 PM | 30.37800026 | 80.2704086 | 539.48383 | 41821 | 850 | 618 | 348 | 1378 |
| 12:10:00 PM | 30.25349998 | 80.3831329 | 539.12793 | 41881 | 852 | 641 | 347 | 1375 |
| 12:11:00 PM | 30.37800026 | 80.4321289 | 538.86621 | 41941 | 852 | 633 | 349 | 1381 |
| 12:12:00 PM | 30.25349998 | 80.502655 | 538.8277 | 42001 | 852 | 655 | 348 | 1380 |
| 12:13:00 PM | 30.37800026 | 80.5747299 | 538.69 | 42061 | 851 | 641 | 350 | 1384 |
| 12:14:00 PM | 30.25349998 | 80.6885529 | 539.01312 | 42121 | 851 | 632 | 349 | 1383 |
| 12:15:00 PM | 30.12900162 | 80.7762146 | 538.97076 | 42181 | 853 | 643 | 344 | 1374 |
| 12:16:00 PM | 30.25349998 | 80.8465271 | 538.77087 | 42241 | 853 | 634 | 345 | 1377 |
| 12:17:00 PM | 30.25349998 | 80.8893738 | 538.513 | 42301 | 853 | 628 | 346 | 1377 |
| 12:18:00 PM | 30.12900162 | 80.9337616 | 538.57477 | 42361 | 853 | 626 | 347 | 1378 |
| 12:19:00 PM | 30.12900162 | 81.0018768 | 538.71405 | 42421 | 853 | 628 | 344 | 1375 |
| 12:20:00 PM | 30.25349998 | 81.0827332 | 538.42566 | 42481 | 854 | 631 | 348 | 1381 |
| 12:21:00 PM | 30.12900162 | 81.1000977 | 539.09509 | 42541 | 853 | 633 | 343 | 1373 |
| 12:22:00 PM | 30.25349998 | 81.1405258 | 538.77966 | 42601 | 854 | 635 | 348 | 1381 |
| 12:23:00 PM | 30.12900162 | 81.1873322 | 538.71252 | 42661 | 854 | 657 | 345 | 1378 |
| 12:24:00 PM | 30.12900162 | 81.2009506 | 538.99097 | 42721 | 854 | 641 | 344 | 1376 |
| 12:25:00 PM | 30.12900162 | 81.2317123 | 539.00775 | 42781 | 855 | 651 | 344 | 1378 |
| 12:26:00 PM | 30.37800026 | 81.2525864 | 538.3009 | 42841 | 854 | 635 | 352 | 1388 |

| | | | | | | | | |
|----------------|--------------------|-------------------|------------------|--------------|--------------|------------------|------------------|------------------|
| 12:27:00 PM | 30.25349998 | 81.2374268 | 538.73883 | 42901 | 854 | 633 | 349 | 1384 |
| 12:28:00 PM | 30.25349998 | 81.2818146 | 538.78192 | 42961 | 854 | 638 | 347 | 1380 |
| 12:29:00 PM | 30.00450134 | 81.2974091 | 539.67841 | 43021 | 856 | 647 | 342 | 1372 |
| 12:30:00 PM | 30.00450134 | 81.3044434 | 539.69977 | 43081 | 856 | 647 | 343 | 1371 |
| 12:31:00 PM | 30.12900162 | 81.3730011 | 539.57269 | 43141 | 857 | 632 | 344 | 1374 |
| 12:32:00 PM | 30.00450134 | 81.4165039 | 540.20789 | 43201 | 858 | 642 | 341 | 1367 |
| 12:33:00 PM | 29.75549889 | 81.5013123 | 540.42987 | 43261 | 858 | 627 | 336 | 1361 |
| 12:34:00 PM | 30.00450134 | 81.5 | 539.32245 | 43321 | 858 | 637 | 341 | 1371 |
| 12:35:00 PM | 30.12900162 | 81.536911 | 539.67456 | 43381 | 858 | 643 | 342 | 1370 |
| 12:36:00 PM | 30.12900162 | 81.5527344 | 539.35834 | 43441 | 858 | 634 | 343 | 1373 |
| 12:37:00 PM | 29.88000107 | 81.5733872 | 539.38275 | 43501 | 858 | 650 | 341 | 1368 |
| 12:38:00 PM | 29.88000107 | 81.6733627 | 539.50708 | 43561 | 860 | 623 | 339 | 1366 |
| 12:39:00 PM | 29.88000107 | 81.7052231 | 539.66772 | 43621 | 860 | 642 | 337 | 1363 |
| 12:40:00 PM | 29.88000107 | 81.7900391 | 539.33051 | 43681 | 860 | 626 | 340 | 1367 |
| 12:41:00 PM | 29.75549889 | 81.7950897 | 539.99841 | 43741 | 860 | 654 | 336 | 1359 |
| 12:42:00 PM | 29.75549889 | 81.884079 | 540.0072 | 43801 | 861 | 640 | 335 | 1360 |
| 12:43:00 PM | 29.88000107 | 81.92099 | 540.06061 | 43861 | 862 | 634 | 336 | 1361 |
| 12:44:00 PM | 29.63099861 | 81.9787827 | 540.16821 | 43921 | 861 | 670 | 334 | 1355 |
| 12:45:00 PM | 29.75549889 | 82.0559082 | 540.18878 | 43981 | 862 | 655 | 335 | 1355 |
| 12:46:00 PM | 29.88000107 | 82.0739288 | 540.12585 | 44041 | 862 | 657 | 337 | 1362 |
| 12:47:00 PM | 29.88000107 | 82.1525879 | 540.27118 | 44101 | 862 | 660 | 336 | 1360 |
| 12:48:00 PM | 29.88000107 | 82.178299 | 540.4104 | 44161 | 863 | 659 | 337 | 1360 |
| 12:49:00 PM | 29.75549889 | 82.1941147 | 540.32459 | 44221 | 863 | 645 | 335 | 1357 |
| 12:50:00 PM | 29.75549889 | 82.2222443 | 540.97882 | 44281 | 864 | 632 | 333 | 1352 |
| 12:51:00 PM | 29.63099861 | 82.2686005 | 541.10852 | 44341 | 864 | 651 | 333 | 1349 |
| 12:52:00 PM | 29.50650024 | 82.3804474 | 540.87732 | 44401 | 864 | 660 | 332 | 1347 |
| 12:53:00 PM | 29.63099861 | 81.4591293 | 500.01581 | 44461 | 861 | 637 | 368 | 1468 |
| 12:54:00 PM | 29.50650024 | 81.7346649 | 501.60388 | 44521 | 858 | 631 | 360 | 1452 |
| 12:55:00 PM | 29.50650024 | 81.8454132 | 501.86407 | 44581 | 859 | 641 | 356 | 1444 |
| 12:56:00 PM | 29.50650024 | 81.9519806 | 502.58276 | 44641 | 859 | 635 | 350 | 1431 |
| Average | 30.31575037 | 80.6307371 | 538.38031 | 42151 | 853.5 | 641.35714 | 342.60714 | 1360.7381 |

Montrose corrected - GE Trend Test 3 Unit 2

| ACFM | SCFM(68F) | lb/sec | lb/sec | ND | | BTU/SCF (68F) | MM BTU/Hr | | BTU/KWH |
|----------|-----------|----------|--------------------------------|---------------------|--|---------------|------------|--------|-----------|
| GAS FLOW | GAS FLOW | Gas Flow | NOX WATER INJECTION FLOW | Water/Fuel Ratio | | HHV | Heat Input | Kw | Heat Rate |
| 135.6 | 5,116 | 3.79 | 4.868 | 1.286 | | 1,024 | 314 | 31,000 | 10,138 |
| 135.5 | 5,116 | 3.79 | 4.854 | 1.282 | | 1,024 | 314 | 31,000 | 10,137 |
| 135.7 | 5,121 | 3.79 | 4.910 | 1.295 | | 1,024 | 315 | 31,125 | 10,106 |
| 135.0 | 5,100 | 3.77 | 4.826 | 1.279 | | 1,024 | 313 | 30,876 | 10,147 |
| 134.8 | 5,090 | 3.77 | 4.826 | 1.281 | | 1,024 | 313 | 30,876 | 10,127 |
| 134.7 | 5,088 | 3.77 | 4.812 | 1.278 | | 1,024 | 313 | 31,000 | 10,082 |
| 134.2 | 5,069 | 3.75 | 4.784 | 1.275 | | 1,024 | 311 | 30,876 | 10,084 |
| 134.4 | 5,078 | 3.76 | 4.771 | 1.269 | | 1,024 | 312 | 30,876 | 10,102 |
| 133.6 | 5,050 | 3.74 | 4.743 | 1.269 | | 1,024 | 310 | 30,876 | 10,047 |
| 133.6 | 5,052 | 3.74 | 4.729 | 1.265 | | 1,024 | 310 | 30,752 | 10,092 |
| 133.9 | 5,064 | 3.75 | 4.757 | 1.269 | | 1,024 | 311 | 30,876 | 10,075 |
| 134.0 | 5,067 | 3.75 | 4.784 | 1.276 | | 1,024 | 311 | 31,000 | 10,040 |
| 134.1 | 5,069 | 3.75 | 4.771 | 1.272 | | 1,024 | 311 | 31,000 | 10,044 |
| 133.3 | 5,044 | 3.73 | 4.743 | 1.270 | | 1,024 | 310 | 30,876 | 10,035 |
| 133.0 | 5,027 | 3.72 | 4.729 | 1.271 | | 1,024 | 309 | 30,752 | 10,042 |
| 133.2 | 5,040 | 3.73 | 4.729 | 1.268 | | 1,024 | 310 | 30,752 | 10,067 |
| 133.1 | 5,035 | 3.73 | 4.715 | 1.265 | | 1,024 | 309 | 30,752 | 10,057 |
| 132.9 | 5,031 | 3.72 | 4.729 | 1.270 | | 1,024 | 309 | 30,876 | 10,008 |
| 133.0 | 5,036 | 3.73 | 4.729 | 1.269 | | 1,024 | 309 | 30,876 | 10,019 |
| 132.2 | 5,009 | 3.71 | 4.673 | 1.261 | | 1,024 | 308 | 30,752 | 10,006 |
| 132.4 | 5,015 | 3.71 | 4.687 | 1.263 | | 1,024 | 308 | 30,752 | 10,017 |
| 130.9 | 4,966 | 3.68 | 4.604 | 1.253 | | 1,024 | 305 | 30,503 | 10,001 |
| 131.8 | 4,993 | 3.70 | 4.673 | 1.265 | | 1,024 | 307 | 30,752 | 9,974 |
| 131.2 | 4,976 | 3.68 | 4.618 | 1.254 | | 1,024 | 306 | 30,627 | 9,980 |
| 131.3 | 4,982 | 3.69 | 4.618 | 1.252 | | 1,024 | 306 | 30,503 | 10,032 |
| 131.9 | 5,002 | 3.70 | 4.645 | 1.255 | | 1,024 | 307 | 30,503 | 10,073 |
| 132.7 | 5,028 | 3.72 | 4.659 | 1.252 | | 1,024 | 309 | 30,503 | 10,126 |
| 133.9 | 5,065 | 3.75 | 4.715 | 1.258 | | 1,024 | 311 | 30,627 | 10,159 |
| 133.6 | 5,058 | 3.74 | 4.687 | 1.252 | | 1,024 | 311 | 30,503 | 10,185 |
| 134.2 | 5,072 | 3.75 | 4.743 | 1.263 | | 1,024 | 312 | 30,752 | 10,132 |
| 134.7 | 5,086 | 3.76 | 4.757 | 1.264 | | 1,024 | 312 | 30,627 | 10,201 |
| 135.3 | 5,108 | 3.78 | 4.771 | 1.262 | | 1,024 | 314 | 30,627 | 10,245 |
| 136.4 | 5,144 | 3.81 | 4.854 | 1.275 | | 1,024 | 316 | 30,627 | 10,317 |
| 137.0 | 5,167 | 3.82 | 4.854 | 1.269 | | 1,024 | 317 | 30,503 | 10,406 |
| 138.0 | 5,201 | 3.85 | 4.882 | 1.268 | | 1,024 | 319 | 30,503 | 10,474 |
| 137.5 | 5,185 | 3.84 | 4.826 | 1.258 | | 1,024 | 319 | 30,253 | 10,528 |
| 137.8 | 5,195 | 3.84 | 4.840 | 1.259 | | 1,024 | 319 | 30,378 | 10,505 |
| 137.5 | 5,180 | 3.83 | 4.826 | 1.259 | | 1,024 | 318 | 30,253 | 10,518 |
| 138.1 | 5,201 | 3.85 | 4.854 | 1.261 | | 1,024 | 319 | 30,378 | 10,516 |
| 138.0 | 5,196 | 3.85 | 4.840 | 1.259 | | 1,024 | 319 | 30,253 | 10,551 |
| 138.4 | 5,210 | 3.86 | 4.868 | 1.262 | | 1,024 | 320 | 30,378 | 10,535 |
| 138.3 | 5,209 | 3.86 | 4.854 | 1.259 | | 1,024 | 320 | 30,253 | 10,577 |
| 137.4 | 5,175 | 3.83 | 4.784 | 1.249 | | 1,024 | 318 | 30,129 | 10,551 |
| 137.7 | 5,185 | 3.84 | 4.798 | 1.251 | | 1,024 | 318 | 30,253 | 10,527 |
| 137.7 | 5,182 | 3.84 | 4.812 | 1.255 | | 1,024 | 318 | 30,253 | 10,522 |
| 137.8 | 5,186 | 3.84 | 4.826 | 1.257 | | 1,024 | 319 | 30,129 | 10,574 |
| 137.5 | 5,176 | 3.83 | 4.784 | 1.249 | | 1,024 | 318 | 30,129 | 10,554 |
| 138.1 | 5,196 | 3.85 | 4.840 | 1.259 | | 1,024 | 319 | 30,253 | 10,551 |
| 137.3 | 5,173 | 3.83 | 4.771 | 1.246 | | 1,024 | 318 | 30,129 | 10,546 |
| 138.1 | 5,200 | 3.85 | 4.840 | 1.258 | | 1,024 | 319 | 30,253 | 10,558 |
| 137.8 | 5,188 | 3.84 | 4.798 | 1.250 | | 1,024 | 319 | 30,129 | 10,577 |
| 137.6 | 5,183 | 3.84 | 4.784 | 1.247 | | 1,024 | 318 | 30,129 | 10,567 |
| 137.8 | 5,191 | 3.84 | 4.784 | 1.246 | | 1,024 | 319 | 30,129 | 10,583 |
| 138.8 | 5,222 | 3.86 | 4.896 | 1.267 | | 1,024 | 321 | 30,378 | 10,558 |

| | | | | | | | | |
|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 138.4 | 5,211 | 3.86 | 4.854 | 1.259 | 1,024 | 320 | 30,253 | 10,580 |
| 138.0 | 5,196 | 3.85 | 4.826 | 1.255 | 1,024 | 319 | 30,253 | 10,550 |
| 137.2 | 5,174 | 3.83 | 4.757 | 1.242 | 1,024 | 318 | 30,005 | 10,593 |
| 137.1 | 5,171 | 3.83 | 4.771 | 1.247 | 1,024 | 318 | 30,005 | 10,586 |
| 137.4 | 5,181 | 3.83 | 4.784 | 1.248 | 1,024 | 318 | 30,129 | 10,563 |
| 136.7 | 5,160 | 3.82 | 4.743 | 1.242 | 1,024 | 317 | 30,005 | 10,564 |
| 136.1 | 5,140 | 3.80 | 4.673 | 1.229 | 1,024 | 316 | 29,755 | 10,610 |
| 137.1 | 5,167 | 3.82 | 4.743 | 1.240 | 1,024 | 317 | 30,005 | 10,578 |
| 137.0 | 5,167 | 3.82 | 4.757 | 1.244 | 1,024 | 317 | 30,129 | 10,534 |
| 137.3 | 5,175 | 3.83 | 4.771 | 1.246 | 1,024 | 318 | 30,129 | 10,551 |
| 136.8 | 5,156 | 3.82 | 4.743 | 1.243 | 1,024 | 317 | 29,880 | 10,600 |
| 136.6 | 5,150 | 3.81 | 4.715 | 1.237 | 1,024 | 316 | 29,880 | 10,587 |
| 136.3 | 5,140 | 3.80 | 4.687 | 1.232 | 1,024 | 316 | 29,880 | 10,567 |
| 136.7 | 5,152 | 3.81 | 4.729 | 1.240 | 1,024 | 316 | 29,880 | 10,592 |
| 135.9 | 5,128 | 3.80 | 4.673 | 1.231 | 1,024 | 315 | 29,755 | 10,587 |
| 136.0 | 5,132 | 3.80 | 4.659 | 1.227 | 1,024 | 315 | 29,755 | 10,594 |
| 136.1 | 5,136 | 3.80 | 4.673 | 1.229 | 1,024 | 316 | 29,880 | 10,559 |
| 135.5 | 5,115 | 3.79 | 4.645 | 1.227 | 1,024 | 314 | 29,631 | 10,603 |
| 135.5 | 5,115 | 3.79 | 4.659 | 1.231 | 1,024 | 314 | 29,755 | 10,559 |
| 136.2 | 5,141 | 3.80 | 4.687 | 1.232 | 1,024 | 316 | 29,880 | 10,568 |
| 136.0 | 5,134 | 3.80 | 4.673 | 1.230 | 1,024 | 315 | 29,880 | 10,555 |
| 136.0 | 5,136 | 3.80 | 4.687 | 1.233 | 1,024 | 315 | 29,880 | 10,558 |
| 135.7 | 5,124 | 3.79 | 4.659 | 1.229 | 1,024 | 315 | 29,755 | 10,577 |
| 135.2 | 5,111 | 3.78 | 4.631 | 1.225 | 1,024 | 314 | 29,755 | 10,551 |
| 134.9 | 5,101 | 3.77 | 4.631 | 1.227 | 1,024 | 313 | 29,631 | 10,574 |
| 134.7 | 5,091 | 3.77 | 4.618 | 1.226 | 1,024 | 313 | 29,507 | 10,598 |
| 146.8 | 5,140 | 3.80 | 5.118 | 1.345 | 1,024 | 316 | 29,631 | 10,656 |
| 145.2 | 5,100 | 3.77 | 5.007 | 1.327 | 1,024 | 313 | 29,507 | 10,617 |
| 144.4 | 5,074 | 3.76 | 4.951 | 1.318 | 1,024 | 312 | 29,507 | 10,564 |
| 143.1 | 5,036 | 3.73 | 4.868 | 1.306 | 1,024 | 309 | 29,507 | 10,483 |
| 136.07381 | 5118.450477 | 3.788046183 | 4.765094345 | 1.257991063 | 1023.789904 | 314.4130754 | 30315.75037 | 10374.25025 |

Appendix B.3 Montrose RM Data



Instrumental Reference Method Uncorrected Measurements and Calibration Results

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 1 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|----------------------|------------|
| Test Start Date: | 9/20/2021 |
| Operator: | Tom Cassin |
| F Factor Information | |
| F _c | - |
| F _d | 8615.6 |

Test Run Average Analyzer Responses and Support Data

| Run Number | Test Date | Start Minute | End Minute | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) | Volumetric Flowrate DSCFM | Moisture Fraction B _{ws} |
|------------|-----------|--------------|------------|----------|-----------------------|-----------------------|------------------------|-------------------------|---------------------------|-----------------------------------|
| 1 | 09/20/21 | 10:26 | 11:58 | 13.82 | 18.63 | - | 15.77 | 3.05 | - | - |
| 2 | 09/20/21 | 12:19 | 13:47 | 8.77 | 20.91 | - | 15.79 | 3.04 | - | - |
| 3 | 09/20/21 | 14:05 | 15:31 | 27.15 | 17.52 | - | 15.94 | 2.9 | - | - |

Method 25A Test Data

| | |
|-----------------|--------------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack |
| Project Number: | PROJ-01221 |
| Test Date: | September 20, 2021 |
| Operator: | Tom Cassin |

| Sampling Location | | Source 1 | |
|-------------------|------------|----------|-------------|
| Calibration Span | | 20 | |
| Run | Start Time | End Time | Run Average |
| 1 | 10:26 | 11:58 | 0.62 |
| 2 | 12:19 | 13:47 | 0.25 |
| 3 | 14:05 | 15:31 | 2.12 |

**GE Power
Greenleaf1 GT1
Base Load**

Test 1

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|------------------|------------------|-----------------|------------|-------------|------------------|
| 9/20/21 10:26 AM | 7.98 | 4.43 | 18.79 | 1.24 | 0.80 |
| 9/20/21 10:27 AM | 7.61 | 3.81 | 19.07 | 1.28 | 1.19 |
| 9/20/21 10:28 AM | 7.53 | 4.06 | 18.91 | 1.17 | 0.89 |
| 9/20/21 10:29 AM | 8.20 | 4.29 | 18.83 | 1.28 | 0.96 |
| 9/20/21 10:30 AM | 8.22 | 4.32 | 18.81 | 1.31 | 0.81 |
| 9/20/21 10:31 AM | 8.05 | 4.46 | 18.86 | 1.32 | 1.28 |
| 9/20/21 10:32 AM | 8.05 | 4.21 | 18.82 | 1.28 | 1.11 |
| 9/20/21 10:33 AM | 8.19 | 4.31 | 18.80 | 1.29 | 0.84 |
| 9/20/21 10:34 AM | 8.19 | 4.44 | 18.81 | 1.30 | 0.90 |
| 9/20/21 10:35 AM | 8.29 | 4.42 | 18.85 | 1.32 | 0.75 |
| 9/20/21 10:36 AM | 8.22 | 4.37 | 18.85 | 1.30 | 0.71 |
| 9/20/21 10:37 AM | 7.99 | 4.71 | 18.81 | 1.30 | 1.13 |
| 9/20/21 10:38 AM | 7.80 | 5.23 | 18.70 | 1.28 | 1.02 |
| 9/20/21 10:39 AM | 10.71 | 10.81 | 17.76 | 1.46 | 1.46 |
| 9/20/21 10:40 AM | 10.93 | 19.59 | 17.43 | 1.97 | 1.81 |
| 9/20/21 10:48 AM | 13.88 | 29.42 | 16.35 | 2.69 | 1.94 |
| 9/20/21 10:49 AM | 14.38 | 25.67 | 16.45 | 2.71 | 1.15 |
| 9/20/21 10:50 AM | 14.97 | 18.97 | 16.43 | 2.69 | 0.85 |
| 9/20/21 10:51 AM | 15.85 | 15.30 | 16.40 | 2.71 | 0.82 |
| 9/20/21 10:52 AM | 16.40 | 12.44 | 16.45 | 2.72 | 0.63 |
| 9/20/21 10:53 AM | 15.77 | 10.74 | 16.72 | 2.69 | 1.00 |
| 9/20/21 10:54 AM | 15.47 | 10.28 | 16.75 | 2.57 | 0.72 |
| 9/20/21 10:55 AM | 15.71 | 10.01 | 16.66 | 2.58 | 0.60 |
| 9/20/21 10:56 AM | 15.52 | 9.65 | 16.68 | 2.57 | 0.72 |
| 9/20/21 10:57 AM | 15.98 | 9.79 | 16.71 | 2.59 | 0.59 |
| 9/20/21 10:58 AM | 15.71 | 10.00 | 16.71 | 2.59 | 0.57 |
| 9/20/21 10:59 AM | 15.73 | 10.11 | 16.60 | 2.57 | 0.50 |
| 9/20/21 11:00 AM | 15.46 | 10.01 | 16.30 | 2.61 | 0.39 |
| 9/20/21 11:01 AM | 19.44 | 12.13 | 15.87 | 2.91 | 0.40 |
| 9/20/21 11:02 AM | 18.79 | 11.40 | 15.78 | 3.06 | 0.48 |
| 9/20/21 11:06 AM | 23.48 | 15.54 | 14.55 | 3.76 | 0.44 |
| 9/20/21 11:07 AM | 23.39 | 15.54 | 14.54 | 3.77 | 0.38 |
| 9/20/21 11:08 AM | 23.50 | 15.57 | 14.50 | 3.79 | 0.34 |
| 9/20/21 11:09 AM | 23.75 | 15.01 | 14.53 | 3.79 | 0.28 |
| 9/20/21 11:10 AM | 23.61 | 15.37 | 14.55 | 3.79 | 0.33 |
| 9/20/21 11:11 AM | 22.93 | 14.77 | 14.69 | 3.71 | 0.40 |
| 9/20/21 11:12 AM | 22.23 | 17.49 | 14.65 | 3.69 | 0.68 |
| 9/20/21 11:13 AM | 18.18 | 22.79 | 14.92 | 3.58 | 0.73 |
| 9/20/21 11:14 AM | 21.73 | 20.76 | 14.50 | 3.62 | 0.38 |
| 9/20/21 11:15 AM | 22.47 | 17.42 | 14.48 | 3.77 | 0.31 |
| 9/20/21 11:16 AM | 23.35 | 15.50 | 14.30 | 3.78 | 0.40 |
| 9/20/21 11:17 AM | 23.79 | 15.35 | 14.29 | 3.88 | 0.25 |

| | | | | | |
|------------------|--------------|--------------|--------------|-------------|-------------|
| 9/20/21 11:18 AM | 23.78 | 15.50 | 14.32 | 3.86 | 0.37 |
| 9/20/21 11:19 AM | 23.52 | 15.79 | 14.36 | 3.87 | 0.26 |
| 9/20/21 11:20 AM | 23.61 | 15.63 | 14.37 | 3.86 | 0.32 |
| 9/20/21 11:25 AM | 23.38 | 17.47 | 14.51 | 3.78 | 0.52 |
| 9/20/21 11:26 AM | 23.31 | 17.49 | 14.50 | 3.78 | 0.46 |
| 9/20/21 11:27 AM | 23.54 | 17.58 | 14.53 | 3.76 | 0.44 |
| 9/20/21 11:28 AM | 23.32 | 17.98 | 14.48 | 3.74 | 0.47 |
| 9/20/21 11:29 AM | 23.24 | 18.06 | 14.52 | 3.79 | 0.51 |
| 9/20/21 11:30 AM | 23.48 | 17.30 | 14.41 | 3.80 | 0.47 |
| 9/20/21 11:31 AM | 23.51 | 16.99 | 14.41 | 3.83 | 0.42 |
| 9/20/21 11:32 AM | 23.54 | 17.06 | 14.43 | 3.82 | 0.45 |
| 9/20/21 11:33 AM | 23.57 | 16.79 | 14.41 | 3.84 | 0.46 |
| 9/20/21 11:34 AM | 23.27 | 17.07 | 14.42 | 3.84 | 0.46 |
| 9/20/21 11:35 AM | 23.57 | 16.94 | 14.39 | 3.81 | 0.48 |
| 9/20/21 11:36 AM | 23.56 | 16.80 | 14.42 | 3.83 | 0.46 |
| 9/20/21 11:37 AM | 23.38 | 16.92 | 14.41 | 3.84 | 0.36 |
| 9/20/21 11:38 AM | 23.36 | 16.38 | 14.43 | 3.82 | 0.39 |
| 9/20/21 11:44 AM | 22.34 | 17.36 | 14.72 | 3.59 | 0.51 |
| 9/20/21 11:45 AM | 22.49 | 17.21 | 14.67 | 3.67 | 0.46 |
| 9/20/21 11:46 AM | 22.70 | 17.07 | 14.63 | 3.69 | 0.51 |
| 9/20/21 11:47 AM | 22.58 | 17.44 | 14.66 | 3.70 | 0.51 |
| 9/20/21 11:48 AM | 22.53 | 17.18 | 14.72 | 3.71 | 0.44 |
| 9/20/21 11:49 AM | 23.23 | 15.59 | 14.65 | 3.68 | 0.31 |
| 9/20/21 11:50 AM | 23.16 | 15.44 | 14.65 | 3.70 | 0.52 |
| 9/20/21 11:51 AM | 22.95 | 15.87 | 14.69 | 3.66 | 0.40 |
| 9/20/21 11:52 AM | 23.02 | 14.92 | 14.69 | 3.68 | 0.38 |
| 9/20/21 11:53 AM | 22.99 | 15.31 | 14.65 | 3.69 | 0.34 |
| 9/20/21 11:54 AM | 23.22 | 15.07 | 14.64 | 3.68 | 0.34 |
| 9/20/21 11:55 AM | 23.19 | 15.36 | 14.64 | 3.70 | 0.39 |
| 9/20/21 11:56 AM | 22.48 | 15.74 | 14.71 | 3.69 | 0.42 |
| 9/20/21 11:57 AM | 22.51 | 15.48 | 14.71 | 3.67 | 0.38 |
| 9/20/21 11:58 AM | 22.63 | 15.26 | 14.74 | 3.69 | 0.38 |
| Average | 18.63 | 13.82 | 15.77 | 3.05 | 0.62 |

**GE Power
Greenleaf1 GT1
Base Load**

Test 2

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|------------------|------------------|-----------------|------------|-------------|------------------|
| 9/20/21 12:19 PM | 22.97 | 15.58 | 14.81 | 3.63 | 0.33 |
| 9/20/21 12:20 PM | 24.31 | 13.16 | 14.78 | 3.63 | 0.23 |
| 9/20/21 12:21 PM | 24.20 | 13.61 | 14.82 | 3.60 | 0.17 |
| 9/20/21 12:22 PM | 24.17 | 13.10 | 14.90 | 3.64 | 0.33 |
| 9/20/21 12:23 PM | 23.62 | 14.71 | 14.81 | 3.59 | 0.29 |
| 9/20/21 12:24 PM | 23.77 | 13.93 | 14.67 | 3.59 | 0.20 |
| 9/20/21 12:25 PM | 24.94 | 13.16 | 14.64 | 3.68 | 0.14 |
| 9/20/21 12:26 PM | 25.02 | 13.19 | 14.67 | 3.72 | 0.15 |
| 9/20/21 12:27 PM | 24.06 | 13.27 | 14.71 | 3.66 | 0.12 |
| 9/20/21 12:28 PM | 25.10 | 11.85 | 14.72 | 3.67 | 0.14 |
| 9/20/21 12:29 PM | 24.91 | 12.59 | 14.69 | 3.66 | 0.17 |
| 9/20/21 12:30 PM | 25.07 | 12.21 | 14.67 | 3.68 | 0.17 |
| 9/20/21 12:31 PM | 25.11 | 11.82 | 14.72 | 3.68 | 0.08 |
| 9/20/21 12:32 PM | 26.03 | 10.11 | 14.78 | 3.66 | 0.11 |
| 9/20/21 12:37 PM | 26.56 | 10.92 | 14.63 | 3.73 | 0.16 |
| 9/20/21 12:38 PM | 26.23 | 11.19 | 14.62 | 3.71 | 0.11 |
| 9/20/21 12:39 PM | 26.91 | 10.85 | 14.59 | 3.71 | 0.10 |
| 9/20/21 12:40 PM | 26.28 | 11.24 | 14.60 | 3.72 | 0.07 |
| 9/20/21 12:41 PM | 26.69 | 10.87 | 14.61 | 3.72 | 0.14 |
| 9/20/21 12:42 PM | 27.24 | 10.51 | 14.56 | 3.75 | 0.09 |
| 9/20/21 12:43 PM | 26.98 | 10.73 | 14.54 | 3.74 | 0.12 |
| 9/20/21 12:44 PM | 26.36 | 11.48 | 14.51 | 3.77 | 0.08 |
| 9/20/21 12:45 PM | 25.96 | 12.50 | 14.49 | 3.77 | 0.07 |
| 9/20/21 12:46 PM | 26.78 | 11.45 | 14.52 | 3.79 | 0.09 |
| 9/20/21 12:47 PM | 26.73 | 11.56 | 14.51 | 3.76 | 0.21 |
| 9/20/21 12:48 PM | 26.25 | 11.55 | 14.49 | 3.75 | 0.19 |
| 9/20/21 12:49 PM | 26.65 | 11.28 | 14.51 | 3.78 | 0.13 |
| 9/20/21 12:50 PM | 26.29 | 11.51 | 14.48 | 3.75 | 0.06 |
| 9/20/21 12:51 PM | 26.39 | 10.46 | 14.61 | 3.77 | 0.03 |
| 9/20/21 12:56 PM | 26.28 | 10.80 | 14.60 | 3.73 | 0.07 |
| 9/20/21 12:57 PM | 26.13 | 11.21 | 14.57 | 3.72 | 0.07 |
| 9/20/21 12:58 PM | 26.74 | 10.83 | 14.56 | 3.73 | 0.04 |
| 9/20/21 12:59 PM | 25.77 | 11.83 | 14.56 | 3.73 | 0.08 |
| 9/20/21 1:00 PM | 25.87 | 11.13 | 14.93 | 3.77 | 0.14 |
| 9/20/21 1:01 PM | 24.52 | 10.10 | 15.02 | 3.54 | 0.05 |
| 9/20/21 1:02 PM | 25.98 | 9.79 | 14.92 | 3.55 | 0.12 |
| 9/20/21 1:03 PM | 24.92 | 9.44 | 14.92 | 3.52 | 0.16 |
| 9/20/21 1:04 PM | 25.28 | 9.35 | 14.96 | 3.53 | 0.06 |
| 9/20/21 1:05 PM | 25.54 | 9.36 | 14.91 | 3.51 | -0.03 |
| 9/20/21 1:06 PM | 26.12 | 8.70 | 14.94 | 3.52 | 0.04 |
| 9/20/21 1:07 PM | 25.23 | 9.20 | 14.91 | 3.53 | 0.06 |
| 9/20/21 1:08 PM | 25.96 | 8.81 | 14.88 | 3.51 | 0.10 |

| | | | | | |
|-----------------|--------------|-------------|--------------|-------------|-------------|
| 9/20/21 1:09 PM | 27.38 | 10.22 | 14.37 | 3.62 | -0.02 |
| 9/20/21 1:14 PM | 18.78 | 6.69 | 16.31 | 2.73 | 0.20 |
| 9/20/21 1:15 PM | 19.08 | 6.26 | 16.26 | 2.75 | 0.20 |
| 9/20/21 1:16 PM | 19.08 | 6.49 | 16.26 | 2.76 | 0.12 |
| 9/20/21 1:17 PM | 19.13 | 6.61 | 16.36 | 2.77 | 0.22 |
| 9/20/21 1:18 PM | 18.56 | 6.68 | 16.41 | 2.78 | 0.23 |
| 9/20/21 1:19 PM | 18.01 | 6.34 | 16.60 | 2.74 | 0.15 |
| 9/20/21 1:20 PM | 18.22 | 6.08 | 16.56 | 2.63 | 0.34 |
| 9/20/21 1:21 PM | 18.91 | 5.99 | 16.67 | 2.63 | 0.13 |
| 9/20/21 1:22 PM | 19.10 | 5.89 | 16.63 | 2.58 | 0.23 |
| 9/20/21 1:23 PM | 19.09 | 5.63 | 16.17 | 2.59 | 0.10 |
| 9/20/21 1:24 PM | 18.11 | 6.69 | 15.62 | 2.87 | 0.12 |
| 9/20/21 1:25 PM | 18.54 | 6.94 | 16.76 | 3.12 | 0.24 |
| 9/20/21 1:26 PM | 18.02 | 5.57 | 16.86 | 2.66 | 0.24 |
| 9/20/21 1:27 PM | 18.11 | 5.43 | 16.83 | 2.49 | 0.83 |
| 9/20/21 1:28 PM | 17.99 | 6.53 | 16.26 | 2.60 | 0.11 |
| 9/20/21 1:33 PM | 8.78 | 2.80 | 18.81 | 1.28 | 0.61 |
| 9/20/21 1:34 PM | 8.54 | 3.04 | 18.79 | 1.27 | 0.78 |
| 9/20/21 1:35 PM | 9.47 | 2.87 | 18.80 | 1.29 | 0.74 |
| 9/20/21 1:36 PM | 9.58 | 2.88 | 18.77 | 1.30 | 0.91 |
| 9/20/21 1:37 PM | 9.54 | 3.17 | 18.67 | 1.35 | 0.84 |
| 9/20/21 1:38 PM | 8.99 | 3.15 | 18.67 | 1.36 | 0.56 |
| 9/20/21 1:39 PM | 9.02 | 3.16 | 18.65 | 1.40 | 1.19 |
| 9/20/21 1:40 PM | 9.11 | 3.39 | 18.62 | 1.40 | 0.51 |
| 9/20/21 1:41 PM | 9.22 | 3.07 | 18.38 | 1.39 | 0.72 |
| 9/20/21 1:42 PM | 9.98 | 3.99 | 18.16 | 1.54 | 0.84 |
| 9/20/21 1:43 PM | 9.65 | 3.97 | 18.16 | 1.67 | 0.66 |
| 9/20/21 1:44 PM | 10.48 | 4.77 | 17.37 | 1.78 | 0.26 |
| 9/20/21 1:45 PM | 10.79 | 4.93 | 17.37 | 2.16 | 0.43 |
| 9/20/21 1:46 PM | 10.63 | 5.15 | 17.43 | 2.17 | 0.38 |
| 9/20/21 1:47 PM | 10.59 | 5.13 | 17.40 | 2.15 | 0.38 |
| Average | 20.91 | 8.77 | 15.79 | 3.04 | 0.25 |

**GE Power
Greenleaf1 GT1
Base Load**

Test 3

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|-----------------|------------------|-----------------|------------|-------------|------------------|
| 9/20/21 2:05 PM | 7.91 | 1.98 | 19.25 | 1.05 | 0.74 |
| 9/20/21 2:06 PM | 7.58 | 2.40 | 18.84 | 1.03 | 0.58 |
| 9/20/21 2:07 PM | 7.34 | 2.53 | 18.87 | 1.22 | 1.04 |
| 9/20/21 2:08 PM | 8.40 | 2.68 | 18.85 | 1.23 | 0.74 |
| 9/20/21 2:09 PM | 8.31 | 2.67 | 18.89 | 1.23 | 0.93 |
| 9/20/21 2:10 PM | 8.44 | 2.61 | 18.85 | 1.23 | 1.02 |
| 9/20/21 2:11 PM | 8.65 | 2.71 | 18.82 | 1.28 | 0.86 |
| 9/20/21 2:12 PM | 9.62 | 2.71 | 18.78 | 1.29 | 0.95 |
| 9/20/21 2:13 PM | 9.55 | 2.70 | 18.77 | 1.29 | 0.77 |
| 9/20/21 2:14 PM | 9.93 | 2.76 | 18.78 | 1.31 | 0.49 |
| 9/20/21 2:15 PM | 9.88 | 2.73 | 18.78 | 1.31 | 0.64 |
| 9/20/21 2:16 PM | 10.06 | 2.85 | 18.78 | 1.31 | 0.62 |
| 9/20/21 2:17 PM | 10.12 | 2.63 | 18.77 | 1.31 | 0.84 |
| 9/20/21 2:18 PM | 10.18 | 2.51 | 18.82 | 1.29 | 0.74 |
| 9/20/21 2:23 PM | 19.92 | 5.46 | 16.60 | 2.60 | 0.26 |
| 9/20/21 2:24 PM | 19.96 | 5.29 | 16.65 | 2.60 | 0.35 |
| 9/20/21 2:25 PM | 19.51 | 5.36 | 16.62 | 2.59 | 0.44 |
| 9/20/21 2:26 PM | 19.66 | 5.49 | 16.48 | 2.59 | 0.25 |
| 9/20/21 2:27 PM | 19.72 | 4.93 | 16.69 | 2.59 | 1.30 |
| 9/20/21 2:28 PM | 19.14 | 4.98 | 16.66 | 2.55 | 0.30 |
| 9/20/21 2:29 PM | 19.82 | 5.03 | 16.72 | 2.53 | 0.28 |
| 9/20/21 2:30 PM | 19.61 | 5.29 | 16.70 | 2.54 | 1.04 |
| 9/20/21 2:31 PM | 19.53 | 5.15 | 16.69 | 2.53 | 0.32 |
| 9/20/21 2:32 PM | 19.75 | 5.26 | 16.67 | 2.54 | 0.20 |
| 9/20/21 2:33 PM | 19.65 | 5.31 | 16.91 | 2.56 | 0.25 |
| 9/20/21 2:34 PM | 18.09 | 6.04 | 16.81 | 2.44 | 0.43 |
| 9/20/21 2:35 PM | 16.89 | 7.75 | 16.82 | 2.46 | 0.44 |
| 9/20/21 2:36 PM | 15.92 | 9.48 | 16.54 | 2.44 | 0.48 |
| 9/20/21 2:40 PM | 20.73 | 32.79 | 14.72 | 3.51 | 2.12 |
| 9/20/21 2:41 PM | 20.61 | 39.68 | 14.65 | 3.60 | 1.95 |
| 9/20/21 2:42 PM | 20.05 | 43.98 | 14.65 | 3.62 | 4.55 |
| 9/20/21 2:43 PM | 19.64 | 44.09 | 14.63 | 3.61 | 4.34 |
| 9/20/21 2:44 PM | 19.66 | 40.64 | 14.67 | 3.59 | 2.10 |
| 9/20/21 2:45 PM | 21.07 | 36.75 | 14.69 | 3.60 | 1.73 |
| 9/20/21 2:46 PM | 20.57 | 42.48 | 15.00 | 3.59 | 2.32 |
| 9/20/21 2:47 PM | 20.06 | 45.07 | 14.56 | 3.50 | 2.92 |
| 9/20/21 2:48 PM | 19.82 | 41.37 | 14.78 | 3.60 | 2.17 |
| 9/20/21 2:49 PM | 20.41 | 35.92 | 14.78 | 3.53 | 2.48 |
| 9/20/21 2:50 PM | 19.84 | 40.27 | 14.78 | 3.53 | 2.14 |
| 9/20/21 2:51 PM | 19.72 | 43.56 | 14.77 | 3.57 | 2.29 |
| 9/20/21 2:52 PM | 19.70 | 40.24 | 15.23 | 3.54 | 2.19 |
| 9/20/21 2:53 PM | 18.80 | 35.39 | 14.66 | 3.32 | 3.15 |

| | | | | | |
|-----------------|--------------|--------------|--------------|-------------|-------------|
| 9/20/21 2:58 PM | 20.37 | 47.11 | 14.65 | 3.62 | 4.06 |
| 9/20/21 2:59 PM | 19.62 | 43.38 | 14.65 | 3.61 | 4.01 |
| 9/20/21 3:00 PM | 20.86 | 45.48 | 14.63 | 3.62 | 3.96 |
| 9/20/21 3:01 PM | 20.21 | 42.95 | 14.64 | 3.61 | 3.82 |
| 9/20/21 3:02 PM | 20.31 | 45.67 | 14.63 | 3.60 | 4.14 |
| 9/20/21 3:03 PM | 19.26 | 44.59 | 14.60 | 3.61 | 4.20 |
| 9/20/21 3:04 PM | 20.54 | 42.32 | 14.58 | 3.64 | 4.11 |
| 9/20/21 3:05 PM | 19.68 | 43.85 | 14.59 | 3.63 | 3.37 |
| 9/20/21 3:06 PM | 20.23 | 39.64 | 14.58 | 3.60 | 2.13 |
| 9/20/21 3:07 PM | 20.95 | 44.50 | 14.52 | 3.64 | 3.43 |
| 9/20/21 3:08 PM | 20.32 | 46.32 | 14.53 | 3.69 | 2.67 |
| 9/20/21 3:09 PM | 20.29 | 46.05 | 14.55 | 3.66 | 2.90 |
| 9/20/21 3:10 PM | 21.00 | 44.08 | 14.56 | 3.66 | 2.64 |
| 9/20/21 3:11 PM | 20.16 | 46.42 | 14.61 | 3.65 | 2.68 |
| 9/20/21 3:18 PM | 19.46 | 46.56 | 14.92 | 3.47 | 3.18 |
| 9/20/21 3:19 PM | 19.50 | 44.15 | 14.89 | 3.45 | 4.63 |
| 9/20/21 3:20 PM | 18.41 | 43.68 | 14.90 | 3.50 | 3.75 |
| 9/20/21 3:21 PM | 18.99 | 45.50 | 14.70 | 3.53 | 4.12 |
| 9/20/21 3:22 PM | 19.05 | 44.95 | 14.69 | 3.56 | 3.37 |
| 9/20/21 3:23 PM | 19.42 | 42.60 | 14.68 | 3.56 | 4.07 |
| 9/20/21 3:24 PM | 19.00 | 44.32 | 14.72 | 3.56 | 4.14 |
| 9/20/21 3:25 PM | 19.18 | 42.76 | 14.71 | 3.55 | 4.06 |
| 9/20/21 3:26 PM | 19.28 | 41.48 | 14.71 | 3.57 | 3.08 |
| 9/20/21 3:27 PM | 19.79 | 44.88 | 14.77 | 3.55 | 3.05 |
| 9/20/21 3:28 PM | 19.65 | 38.33 | 14.89 | 3.52 | 2.10 |
| 9/20/21 3:29 PM | 19.10 | 40.57 | 14.87 | 3.44 | 2.62 |
| 9/20/21 3:30 PM | 19.22 | 38.09 | 14.90 | 3.46 | 2.33 |
| 9/20/21 3:31 PM | 19.03 | 40.63 | 14.90 | 3.45 | 1.99 |
| Average | 17.52 | 27.15 | 15.94 | 2.90 | 2.12 |



Instrumental Reference Method Uncorrected Measurements and Calibration Results

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 2 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|----------------------|------------|
| Test Start Date: | 9/21/2021 |
| Operator: | Tom Cassin |
| F Factor Information | |
| F _c | |
| F _d | 8621.5 |

Test Run Average Analyzer Responses and Support Data

| Run Number | Test Date | Start Minute | End Minute | CO (ppm) | NO _x (ppm) | SO ₂ (ppm) | O ₂ (% vol) | CO ₂ (% vol) | Volumetric Flowrate DSCFM | Moisture Fraction B _{ws} |
|------------|-----------|--------------|------------|----------|-----------------------|-----------------------|------------------------|-------------------------|---------------------------|-----------------------------------|
| 1 | 09/21/21 | 8:19 | 9:39 | 10.97 | 19.19 | - | 15.63 | 3.12 | - | - |
| 2 | 09/21/21 | 9:55 | 11:15 | 12.54 | 17.78 | - | 15.74 | 3.04 | - | - |
| 3 | 09/21/21 | 11:33 | 12:56 | 9.91 | 18.66 | - | 15.98 | 2.87 | - | - |

Method 25A Test Data

| | |
|-----------------|-------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack GT2 |
| Project Number: | PROJ-011221 |
| Test Date: | 9/21/2021 |
| Operator: | Tom Cassin |

| Sampling Location | | Source 1 | |
|-------------------|------------|----------|-------------|
| Calibration Span | | 20 | |
| Run | Start Time | End Time | Run Average |
| 1 | 8:19 | 9:39 | 0.97 |
| 2 | 9:55 | 11:15 | 0.72 |
| 3 | 11:33 | 12:56 | 0.51 |

**GE Power
Greenleaf1 GT2
Base Load**

Test 1

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|-----------------|------------------|-----------------|------------|-------------|------------------|
| 9/21/21 8:19 AM | 24.02 | 11.36 | 14.86 | 3.62 | 1.39 |
| 9/21/21 8:20 AM | 24.11 | 11.60 | 14.84 | 3.60 | 1.41 |
| 9/21/21 8:21 AM | 24.25 | 11.95 | 14.86 | 3.58 | 1.43 |
| 9/21/21 8:22 AM | 24.43 | 13.19 | 14.69 | 3.60 | 1.21 |
| 9/21/21 8:23 AM | 24.83 | 11.72 | 14.69 | 3.67 | 1.08 |
| 9/21/21 8:24 AM | 24.93 | 11.38 | 14.64 | 3.69 | 0.96 |
| 9/21/21 8:25 AM | 24.99 | 11.73 | 14.65 | 3.70 | 0.86 |
| 9/21/21 8:26 AM | 25.01 | 11.06 | 14.65 | 3.71 | 0.83 |
| 9/21/21 8:27 AM | 24.91 | 11.14 | 14.67 | 3.72 | 0.98 |
| 9/21/21 8:28 AM | 25.00 | 11.85 | 14.63 | 3.72 | 1.17 |
| 9/21/21 8:29 AM | 24.97 | 11.70 | 14.71 | 3.69 | 1.00 |
| 9/21/21 8:30 AM | 25.28 | 11.99 | 14.48 | 3.70 | 1.29 |
| 9/21/21 8:31 AM | 25.27 | 11.69 | 14.53 | 3.75 | 0.85 |
| 9/21/21 8:32 AM | 25.15 | 10.89 | 14.49 | 3.77 | 0.69 |
| 9/21/21 8:33 AM | 24.97 | 10.42 | 14.27 | 3.71 | 0.65 |
| 9/21/21 8:36 AM | 22.75 | 19.55 | 14.40 | 3.80 | 0.84 |
| 9/21/21 8:37 AM | 22.07 | 22.18 | 14.41 | 3.77 | 1.07 |
| 9/21/21 8:38 AM | 21.60 | 23.63 | 14.43 | 3.78 | 1.23 |
| 9/21/21 8:39 AM | 21.44 | 25.40 | 14.42 | 3.74 | 1.03 |
| 9/21/21 8:40 AM | 21.71 | 25.17 | 14.38 | 3.78 | 1.14 |
| 9/21/21 8:41 AM | 22.09 | 23.78 | 14.37 | 3.79 | 1.03 |
| 9/21/21 8:42 AM | 22.63 | 19.71 | 14.39 | 3.78 | 0.76 |
| 9/21/21 8:43 AM | 23.25 | 16.34 | 14.40 | 3.77 | 0.67 |
| 9/21/21 8:44 AM | 23.28 | 16.21 | 14.39 | 3.81 | 0.79 |
| 9/21/21 8:45 AM | 23.30 | 16.41 | 14.40 | 3.80 | 0.74 |
| 9/21/21 8:46 AM | 23.49 | 15.99 | 14.30 | 3.82 | 0.60 |
| 9/21/21 8:47 AM | 23.70 | 15.51 | 14.31 | 3.89 | 0.58 |
| 9/21/21 8:48 AM | 23.83 | 14.20 | 14.32 | 3.85 | 0.30 |
| 9/21/21 8:49 AM | 24.21 | 13.21 | 14.31 | 3.84 | 0.39 |
| 9/21/21 8:50 AM | 23.85 | 12.64 | 14.33 | 3.85 | 0.43 |
| 9/21/21 8:53 AM | 23.58 | 10.41 | 14.46 | 3.79 | 0.02 |
| 9/21/21 8:54 AM | 23.63 | 10.58 | 14.46 | 3.80 | 0.11 |
| 9/21/21 8:55 AM | 23.48 | 10.69 | 14.46 | 3.80 | 0.13 |
| 9/21/21 8:56 AM | 23.51 | 10.68 | 14.45 | 3.79 | 0.17 |
| 9/21/21 8:57 AM | 23.50 | 10.51 | 14.41 | 3.77 | 0.01 |
| 9/21/21 8:58 AM | 23.69 | 10.60 | 14.40 | 3.82 | 0.11 |
| 9/21/21 8:59 AM | 23.46 | 11.21 | 14.43 | 3.85 | -0.05 |
| 9/21/21 9:00 AM | 22.82 | 11.16 | 14.51 | 3.82 | 0.07 |
| 9/21/21 9:01 AM | 22.79 | 11.08 | 14.54 | 3.78 | 0.07 |
| 9/21/21 9:02 AM | 22.96 | 10.80 | 14.53 | 3.75 | -0.03 |
| 9/21/21 9:03 AM | 22.80 | 11.27 | 14.53 | 3.75 | 0.25 |
| 9/21/21 9:04 AM | 23.17 | 11.56 | 14.23 | 3.75 | 0.00 |

| | | | | | |
|-----------------|--------------|--------------|--------------|-------------|-------------|
| 9/21/21 9:05 AM | 23.80 | 11.92 | 14.23 | 3.90 | -0.03 |
| 9/21/21 9:06 AM | 23.84 | 11.50 | 14.21 | 3.91 | 0.01 |
| 9/21/21 9:07 AM | 23.59 | 12.18 | 14.28 | 3.91 | 0.04 |
| 9/21/21 9:10 AM | 12.20 | 5.73 | 17.53 | 2.44 | 0.46 |
| 9/21/21 9:11 AM | 12.10 | 5.32 | 17.61 | 2.10 | 0.24 |
| 9/21/21 9:12 AM | 12.29 | 5.59 | 17.59 | 2.05 | 3.38 |
| 9/21/21 9:13 AM | 12.05 | 5.61 | 17.57 | 2.08 | 0.75 |
| 9/21/21 9:14 AM | 11.97 | 5.58 | 17.62 | 2.05 | 0.34 |
| 9/21/21 9:15 AM | 12.05 | 5.41 | 17.61 | 2.05 | 0.23 |
| 9/21/21 9:16 AM | 16.49 | 8.37 | 16.29 | 2.35 | 0.13 |
| 9/21/21 9:17 AM | 16.56 | 8.81 | 16.30 | 2.81 | 0.14 |
| 9/21/21 9:18 AM | 15.82 | 7.86 | 16.44 | 2.77 | 0.16 |
| 9/21/21 9:19 AM | 16.19 | 7.76 | 16.33 | 2.80 | 0.08 |
| 9/21/21 9:20 AM | 15.94 | 8.80 | 16.09 | 2.76 | 0.17 |
| 9/21/21 9:21 AM | 17.06 | 9.50 | 16.01 | 2.92 | 0.18 |
| 9/21/21 9:22 AM | 17.05 | 9.57 | 16.00 | 2.96 | 0.08 |
| 9/21/21 9:23 AM | 17.16 | 8.76 | 16.03 | 2.96 | 0.18 |
| 9/21/21 9:24 AM | 14.17 | 7.54 | 17.35 | 2.91 | 0.39 |
| 9/21/21 9:26 AM | 6.55 | 3.16 | 19.19 | 1.14 | 1.51 |
| 9/21/21 9:27 AM | 6.67 | 3.17 | 19.18 | 1.08 | 6.03 |
| 9/21/21 9:28 AM | 6.51 | 3.42 | 19.19 | 1.09 | 4.80 |
| 9/21/21 9:29 AM | 6.58 | 3.35 | 19.21 | 1.08 | 2.73 |
| 9/21/21 9:30 AM | 6.58 | 3.47 | 17.75 | 1.09 | 2.25 |
| 9/21/21 9:31 AM | 11.88 | 7.09 | 17.58 | 1.86 | 1.53 |
| 9/21/21 9:32 AM | 9.15 | 4.84 | 18.50 | 1.92 | 3.59 |
| 9/21/21 9:33 AM | 8.40 | 4.82 | 18.52 | 1.49 | 7.10 |
| 9/21/21 9:34 AM | 10.33 | 7.23 | 17.32 | 1.59 | 0.68 |
| 9/21/21 9:35 AM | 12.27 | 7.36 | 17.34 | 2.20 | 0.98 |
| 9/21/21 9:36 AM | 12.41 | 8.83 | 17.22 | 2.22 | 1.12 |
| 9/21/21 9:37 AM | 12.42 | 8.52 | 17.23 | 2.25 | 1.33 |
| 9/21/21 9:38 AM | 12.89 | 8.37 | 17.23 | 2.28 | 2.18 |
| 9/21/21 9:39 AM | 12.41 | 7.85 | 17.24 | 2.27 | 0.73 |
| Average | 19.19 | 10.97 | 15.63 | 3.12 | 0.97 |

**GE Power
Greenleaf1 GT2
Base Load**

Test 2

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|------------------|------------------|-----------------|------------|-------------|------------------|
| 9/21/21 9:55 AM | 6.67 | 4.17 | 19.02 | 1.20 | 6.18 |
| 9/21/21 9:56 AM | 6.62 | 4.22 | 19.04 | 1.17 | 1.03 |
| 9/21/21 9:57 AM | 6.69 | 4.46 | 19.01 | 1.20 | 1.01 |
| 9/21/21 9:58 AM | 11.07 | 8.54 | 17.47 | 1.58 | 2.91 |
| 9/21/21 9:59 AM | 11.05 | 8.22 | 17.49 | 2.09 | 3.77 |
| 9/21/21 10:00 AM | 9.36 | 5.77 | 18.69 | 2.00 | 2.42 |
| 9/21/21 10:01 AM | 7.61 | 5.16 | 18.74 | 1.42 | 1.18 |
| 9/21/21 10:02 AM | 7.54 | 4.98 | 18.65 | 1.37 | 0.63 |
| 9/21/21 10:03 AM | 8.82 | 6.84 | 17.45 | 1.41 | 0.61 |
| 9/21/21 10:04 AM | 11.46 | 8.54 | 17.40 | 2.08 | 0.92 |
| 9/21/21 10:05 AM | 11.67 | 9.19 | 17.19 | 2.17 | 0.71 |
| 9/21/21 10:06 AM | 12.47 | 10.22 | 16.99 | 2.28 | 0.64 |
| 9/21/21 10:07 AM | 12.61 | 11.40 | 17.00 | 2.39 | 0.54 |
| 9/21/21 10:08 AM | 11.97 | 11.77 | 15.73 | 2.39 | 1.22 |
| 9/21/21 10:11 AM | 13.77 | 9.00 | 16.77 | 2.49 | 0.79 |
| 9/21/21 10:12 AM | 13.87 | 9.62 | 16.81 | 2.52 | 0.98 |
| 9/21/21 10:13 AM | 13.64 | 9.68 | 16.77 | 2.52 | 1.24 |
| 9/21/21 10:14 AM | 13.68 | 9.19 | 16.78 | 2.49 | 1.21 |
| 9/21/21 10:15 AM | 13.85 | 9.47 | 16.79 | 2.50 | 1.19 |
| 9/21/21 10:16 AM | 12.93 | 9.80 | 17.01 | 2.47 | 0.65 |
| 9/21/21 10:17 AM | 13.06 | 9.25 | 17.13 | 2.38 | 1.49 |
| 9/21/21 10:18 AM | 13.22 | 9.09 | 16.98 | 2.32 | 0.49 |
| 9/21/21 10:19 AM | 13.22 | 8.21 | 17.02 | 2.41 | 1.26 |
| 9/21/21 10:20 AM | 13.81 | 8.84 | 16.56 | 2.39 | 0.30 |
| 9/21/21 10:21 AM | 14.57 | 10.32 | 16.48 | 2.62 | 0.49 |
| 9/21/21 10:22 AM | 14.68 | 9.52 | 16.53 | 2.66 | 0.88 |
| 9/21/21 10:23 AM | 14.69 | 9.36 | 16.07 | 2.64 | 0.33 |
| 9/21/21 10:24 AM | 16.88 | 13.09 | 15.71 | 2.90 | 0.54 |
| 9/21/21 10:28 AM | 20.91 | 15.75 | 14.64 | 3.69 | 0.57 |
| 9/21/21 10:29 AM | 20.80 | 15.77 | 14.63 | 3.67 | 0.30 |
| 9/21/21 10:30 AM | 20.75 | 16.50 | 14.62 | 3.70 | 0.28 |
| 9/21/21 10:31 AM | 20.68 | 15.35 | 14.61 | 3.71 | 0.24 |
| 9/21/21 10:32 AM | 20.57 | 15.88 | 14.48 | 3.69 | 0.67 |
| 9/21/21 10:33 AM | 20.98 | 16.95 | 14.46 | 3.77 | 0.26 |
| 9/21/21 10:34 AM | 21.13 | 17.15 | 14.44 | 3.79 | 0.27 |
| 9/21/21 10:35 AM | 21.27 | 16.82 | 14.46 | 3.74 | 0.36 |
| 9/21/21 10:36 AM | 20.92 | 17.66 | 14.53 | 3.75 | 0.27 |
| 9/21/21 10:37 AM | 21.20 | 17.03 | 14.54 | 3.72 | 0.22 |
| 9/21/21 10:38 AM | 21.06 | 15.94 | 14.55 | 3.73 | 0.28 |
| 9/21/21 10:39 AM | 21.13 | 19.58 | 14.51 | 3.69 | 0.37 |
| 9/21/21 10:40 AM | 20.85 | 17.20 | 14.49 | 3.75 | 0.21 |
| 9/21/21 10:41 AM | 20.17 | 16.31 | 14.74 | 3.71 | 0.72 |

| | | | | | |
|------------------|--------------|--------------|--------------|-------------|-------------|
| 9/21/21 10:45 AM | 21.66 | 17.89 | 14.72 | 3.67 | 0.21 |
| 9/21/21 10:46 AM | 21.69 | 15.83 | 14.76 | 3.62 | 0.61 |
| 9/21/21 10:47 AM | 21.39 | 17.38 | 14.73 | 3.65 | 0.70 |
| 9/21/21 10:48 AM | 21.61 | 15.62 | 14.74 | 3.63 | 0.58 |
| 9/21/21 10:49 AM | 21.45 | 17.27 | 14.59 | 3.62 | 0.41 |
| 9/21/21 10:50 AM | 21.40 | 18.90 | 14.59 | 3.69 | 0.54 |
| 9/21/21 10:51 AM | 21.26 | 17.40 | 14.65 | 3.69 | 0.91 |
| 9/21/21 10:52 AM | 21.31 | 17.42 | 14.63 | 3.67 | 0.35 |
| 9/21/21 10:53 AM | 21.34 | 16.59 | 14.64 | 3.67 | 0.28 |
| 9/21/21 10:54 AM | 21.52 | 17.50 | 14.58 | 3.68 | 0.22 |
| 9/21/21 10:55 AM | 21.78 | 16.54 | 14.60 | 3.69 | 0.32 |
| 9/21/21 10:56 AM | 21.44 | 17.74 | 14.63 | 3.71 | 0.44 |
| 9/21/21 10:57 AM | 20.47 | 14.98 | 14.70 | 3.66 | 0.31 |
| 9/21/21 10:58 AM | 21.84 | 15.34 | 14.68 | 3.59 | 1.08 |
| 9/21/21 11:02 AM | 22.31 | 12.78 | 15.03 | 3.46 | 0.15 |
| 9/21/21 11:03 AM | 22.42 | 13.35 | 15.04 | 3.47 | 0.30 |
| 9/21/21 11:04 AM | 22.51 | 12.38 | 15.05 | 3.46 | 0.35 |
| 9/21/21 11:05 AM | 22.66 | 10.76 | 15.02 | 3.42 | 0.53 |
| 9/21/21 11:06 AM | 22.32 | 11.87 | 14.99 | 3.45 | 0.18 |
| 9/21/21 11:07 AM | 22.58 | 12.82 | 14.87 | 3.52 | 0.34 |
| 9/21/21 11:08 AM | 22.83 | 12.17 | 14.85 | 3.55 | 0.13 |
| 9/21/21 11:09 AM | 23.09 | 11.54 | 14.88 | 3.57 | 0.17 |
| 9/21/21 11:10 AM | 23.31 | 11.75 | 14.86 | 3.55 | 0.15 |
| 9/21/21 11:11 AM | 23.20 | 12.08 | 14.83 | 3.55 | 0.10 |
| 9/21/21 11:12 AM | 23.17 | 12.32 | 14.85 | 3.55 | 0.19 |
| 9/21/21 11:13 AM | 23.33 | 11.78 | 14.82 | 3.59 | 0.54 |
| 9/21/21 11:14 AM | 23.61 | 11.37 | 15.02 | 3.55 | 0.13 |
| 9/21/21 11:15 AM | 22.89 | 12.42 | 15.13 | 3.45 | -0.45 |
| Average | 17.78 | 12.54 | 15.74 | 3.04 | 0.72 |

GE Power
Greenleaf1 GT2
Base Load

Test 3

| | NOx ppmvd | CO ppmvd | O2% | CO2% | UHC ppmvw |
|------------------|------------------|-----------------|------------|-------------|------------------|
| 9/21/21 11:33 AM | 22.53 | 11.66 | 15.09 | 3.41 | 0.33 |
| 9/21/21 11:34 AM | 22.49 | 11.79 | 15.09 | 3.41 | 0.25 |
| 9/21/21 11:35 AM | 22.76 | 11.36 | 15.06 | 3.41 | 0.24 |
| 9/21/21 11:36 AM | 22.51 | 12.87 | 15.07 | 3.44 | 0.40 |
| 9/21/21 11:37 AM | 22.95 | 11.93 | 14.90 | 3.45 | 0.27 |
| 9/21/21 11:38 AM | 23.54 | 11.55 | 14.91 | 3.51 | 0.31 |
| 9/21/21 11:39 AM | 23.22 | 12.13 | 14.99 | 3.54 | 0.46 |
| 9/21/21 11:40 AM | 23.31 | 10.85 | 15.04 | 3.49 | 1.40 |
| 9/21/21 11:41 AM | 23.07 | 10.22 | 15.03 | 3.47 | 0.15 |
| 9/21/21 11:42 AM | 23.45 | 10.39 | 14.91 | 3.47 | 0.23 |
| 9/21/21 11:43 AM | 23.89 | 11.09 | 14.90 | 3.53 | 0.37 |
| 9/21/21 11:44 AM | 23.89 | 13.45 | 14.91 | 3.55 | 0.46 |
| 9/21/21 11:45 AM | 23.81 | 10.26 | 14.85 | 3.53 | 0.25 |
| 9/21/21 11:46 AM | 24.02 | 11.22 | 14.85 | 3.55 | 0.36 |
| 9/21/21 11:50 AM | 25.55 | 8.24 | 14.75 | 3.63 | 0.24 |
| 9/21/21 11:51 AM | 25.66 | 8.38 | 14.72 | 3.62 | 0.09 |
| 9/21/21 11:52 AM | 25.58 | 7.67 | 14.73 | 3.63 | 0.00 |
| 9/21/21 11:53 AM | 25.97 | 8.14 | 14.74 | 3.63 | 0.12 |
| 9/21/21 11:54 AM | 26.13 | 7.78 | 14.75 | 3.62 | 0.10 |
| 9/21/21 11:55 AM | 26.38 | 8.53 | 14.76 | 3.63 | 0.27 |
| 9/21/21 11:56 AM | 26.14 | 9.18 | 14.72 | 3.62 | 0.05 |
| 9/21/21 11:57 AM | 26.12 | 9.71 | 14.76 | 3.60 | 0.29 |
| 9/21/21 11:58 AM | 26.09 | 8.24 | 14.74 | 3.63 | 0.76 |
| 9/21/21 11:59 AM | 25.57 | 8.34 | 14.75 | 3.61 | 0.56 |
| 9/21/21 12:00 PM | 25.04 | 11.18 | 14.76 | 3.60 | 0.12 |
| 9/21/21 12:01 PM | 24.68 | 10.44 | 14.73 | 3.61 | 0.04 |
| 9/21/21 12:02 PM | 24.79 | 9.91 | 14.65 | 3.61 | 0.29 |
| 9/21/21 12:03 PM | 24.85 | 10.00 | 14.64 | 3.65 | 0.21 |
| 9/21/21 12:08 PM | 22.93 | 15.04 | 15.10 | 3.70 | 1.38 |
| 9/21/21 12:09 PM | 21.13 | 12.72 | 15.02 | 3.46 | 0.69 |
| 9/21/21 12:10 PM | 21.34 | 13.77 | 14.96 | 3.45 | 0.70 |
| 9/21/21 12:11 PM | 22.47 | 13.38 | 14.64 | 3.48 | 0.05 |
| 9/21/21 12:12 PM | 22.77 | 14.12 | 14.60 | 3.65 | 0.10 |
| 9/21/21 12:13 PM | 22.52 | 14.62 | 14.58 | 3.67 | 0.22 |
| 9/21/21 12:14 PM | 22.40 | 15.56 | 14.59 | 3.66 | 0.24 |
| 9/21/21 12:15 PM | 22.26 | 15.69 | 14.60 | 3.66 | 0.54 |
| 9/21/21 12:16 PM | 22.84 | 14.45 | 14.59 | 3.66 | 0.05 |
| 9/21/21 12:17 PM | 22.48 | 14.07 | 14.77 | 3.64 | 0.17 |
| 9/21/21 12:18 PM | 21.81 | 15.16 | 14.79 | 3.55 | 0.26 |
| 9/21/21 12:19 PM | 21.81 | 15.27 | 14.81 | 3.53 | 0.56 |
| 9/21/21 12:20 PM | 22.01 | 13.71 | 14.80 | 3.55 | 0.20 |
| 9/21/21 12:21 PM | 22.38 | 16.75 | 14.56 | 3.60 | 0.24 |

| | | | | | |
|------------------|--------------|-------------|--------------|-------------|-------------|
| 9/21/21 12:25 PM | 11.14 | 6.10 | 17.87 | 1.85 | 0.44 |
| 9/21/21 12:26 PM | 11.02 | 6.10 | 17.83 | 1.80 | 0.39 |
| 9/21/21 12:27 PM | 10.71 | 6.69 | 17.85 | 1.84 | 0.75 |
| 9/21/21 12:28 PM | 10.70 | 6.67 | 17.82 | 1.85 | 0.33 |
| 9/21/21 12:29 PM | 10.89 | 6.57 | 17.83 | 1.86 | 0.31 |
| 9/21/21 12:30 PM | 13.21 | 8.63 | 16.76 | 1.94 | 0.49 |
| 9/21/21 12:31 PM | 14.95 | 8.98 | 16.73 | 2.44 | 0.28 |
| 9/21/21 12:32 PM | 15.14 | 9.05 | 16.67 | 2.49 | 0.19 |
| 9/21/21 12:33 PM | 15.04 | 8.81 | 16.72 | 2.50 | 0.32 |
| 9/21/21 12:34 PM | 13.56 | 6.71 | 17.08 | 2.38 | 0.23 |
| 9/21/21 12:35 PM | 14.05 | 7.69 | 16.98 | 2.27 | 0.21 |
| 9/21/21 12:36 PM | 14.25 | 7.67 | 17.04 | 2.33 | 0.27 |
| 9/21/21 12:37 PM | 14.01 | 7.79 | 16.96 | 2.34 | 0.13 |
| 9/21/21 12:38 PM | 15.58 | 8.69 | 16.59 | 2.47 | 0.11 |
| 9/21/21 12:43 PM | 6.78 | 3.22 | 19.17 | 1.03 | 1.01 |
| 9/21/21 12:44 PM | 6.76 | 3.20 | 19.19 | 1.04 | 0.51 |
| 9/21/21 12:45 PM | 6.75 | 3.35 | 19.16 | 1.01 | 1.44 |
| 9/21/21 12:46 PM | 6.80 | 3.17 | 19.14 | 1.03 | 0.69 |
| 9/21/21 12:47 PM | 6.77 | 3.20 | 19.19 | 1.04 | 2.40 |
| 9/21/21 12:48 PM | 8.46 | 6.06 | 18.15 | 1.08 | 3.54 |
| 9/21/21 12:49 PM | 10.23 | 6.77 | 18.06 | 1.66 | 3.76 |
| 9/21/21 12:50 PM | 10.26 | 5.97 | 18.03 | 1.67 | 0.46 |
| 9/21/21 12:51 PM | 10.34 | 7.26 | 18.07 | 1.69 | 1.26 |
| 9/21/21 12:52 PM | 10.49 | 6.77 | 18.05 | 1.70 | 0.57 |
| 9/21/21 12:53 PM | 10.28 | 5.80 | 18.18 | 1.68 | 0.44 |
| 9/21/21 12:54 PM | 10.39 | 16.93 | 17.26 | 1.88 | 0.54 |
| 9/21/21 12:55 PM | 10.87 | 13.53 | 17.17 | 2.17 | 0.36 |
| 9/21/21 12:56 PM | 11.65 | 11.79 | 17.16 | 2.23 | 0.39 |
| Average | 18.66 | 9.91 | 15.98 | 2.87 | 0.51 |

Appendix B.4 Moisture Data Sheets

APPENDIX C EMISSIONS CALCULATIONS

Appendix C.1 Gaseous Emission Calculations

Example Calculations

| | | | |
|-----------------|--------------|---|----------------------------|
| Client: | GE Power | Test Start Date: | Monday, September 20, 2021 |
| Facility: | Green Leaf 1 | Operator: | Tom Cassin |
| Source: | TM 2500 GT 1 | | |
| Test Location: | Stack | | |
| Condition/Load: | Base | Example Calculations Taken From Initial Calibration and Run 1 | |
| Project Number: | PROJ-011221 | | |

Analyzer Calibration Error

$$ACE = \frac{C_{Dir} - C_V}{CS} \times 100$$

ACE = Analyzer calibration error, percent of calibration span

C_{Dir} = Measured concentration of a calibration gas (low) when introduced in direct calibration mode, ppmv

C_V = Manufacturer certified concentration of a calibration gas (low), ppmv.

CS = Calibration span, ppmv.

| | | | | |
|-----------------|-----------|-------|-----|--------|
| CO | C_{dir} | -0.06 | CS | 48.64 |
| | C_v | 0.00 | ACE | -0.12% |
| NO _x | C_{dir} | -0.10 | CS | 46.48 |
| | C_v | 0.00 | ACE | -0.22% |
| O ₂ | C_{dir} | -0.01 | CS | 20.87 |
| | C_v | 0.00 | ACE | -0.05% |
| CO ₂ | C_{dir} | 0.03 | CS | 19.50 |
| | C_v | 0.00 | ACE | 0.15% |

System Bias - Non-Dilution Systems

$$SB = \frac{C_S - C_{Dir}}{CS} \times 100$$

SB = System bias, percent of calibration span.

C_S = Measured concentration of a calibration gas (low) when introduced in system calibration mode, ppmv.

C_{Dir} = Measured concentration of a calibration gas (low) when introduced in direct calibration mode, ppmv.

CS = Calibration span, ppmv.

| | | | | |
|-----------------|-----------|-------|----|--------|
| CO | C_S | -0.05 | CS | 48.64 |
| | C_{dir} | -0.06 | SB | 0.02% |
| NO _x | C_S | 0.01 | CS | 46.48 |
| | C_{dir} | -0.10 | SB | 0.24% |
| O ₂ | C_S | -0.01 | CS | 20.87 |
| | C_{dir} | -0.01 | SB | 0.00% |
| CO ₂ | C_S | 0.01 | CS | 19.50 |
| | C_{dir} | 0.03 | SB | -0.10% |

Drift Assessment - Extractive System

$$D = |SB_{Final} - SB_i|$$

D = Drift assessment, percent of calibration span.

SB_{final} = Post-run system bias, percent of calibration span.

SB_i = Pre-run system bias, percent of calibration span.

| | | | |
|-----------------|---------------------|-------|-------------------|
| CO | SB _{Final} | -0.27 | D 0.287829 % Span |
| | SB _i | 0.02 | |
| NO _x | SB _{Final} | 0.26 | D 0.021515 % Span |
| | SB _i | 0.24 | |
| O ₂ | SB _{Final} | -0.05 | D 0.047916 % Span |
| | SB _i | 0.00 | |
| CO ₂ | SB _{Final} | -0.15 | D 0.051282 % Span |
| | SB _i | -0.10 | |

Effluent Gas Concentration

$$C_{Gas} = (C_{Avg} - C_0) \frac{C_{MA}}{C_M - C_0}$$

C_{Gas} = Average effluent gas concentration adjusted for bias, ppmv

C_{Avg} = Average unadjusted gas concentration indicated by data recorder for the test run, ppmv.

C₀ = Average of the initial and final system calibration bias check responses from the zero calibration gas, ppmv.

C_{MA} = Actual concentration of the upscale calibration gas, ppmv.

C_M = Average of initial and final system calibration bias check responses for the upscale calibration gas, ppmv.

| | | | | |
|-----------------|------------------|-------|-----------------|-------|
| CO | C _{Gas} | 13.76 | C _{MA} | 23.82 |
| | C _{Avg} | 13.82 | C _M | 24.02 |
| | C ₀ | -0.12 | C ₀ | -0.12 |
| NO _x | C _{Gas} | 18.74 | C _{MA} | 24.04 |
| | C _{Avg} | 18.63 | C _M | 23.89 |
| | C ₀ | 0.02 | C ₀ | 0.02 |
| O ₂ | C _{Gas} | 15.79 | C _{MA} | 10.32 |
| | C _{Avg} | 15.77 | C _M | 10.31 |
| | C ₀ | -0.02 | C ₀ | -0.02 |
| CO ₂ | C _{Gas} | 3.07 | C _{MA} | 10.01 |
| | C _{Avg} | 3.05 | C _M | 9.95 |
| | C ₀ | 0.01 | C ₀ | 0.01 |

Concentration Corrected to a Reference Oxygen Percent

$$C_{GAS} \text{ at Reference } O_2 = C_{GAS} \times \frac{(20.9\% - \text{Ref } O_2)}{(20.9\% - \%O_2)}$$

C_{GAS} at Reference O₂ = Corrected effluent gas concentration to reference oxygen percent

C_{GAS} = Average effluent gas concentration adjusted for bias, ppmv

Ref O₂ = Reference percent oxygen for correction

%O₂ = Average effluent oxygen concentration, as measured.

| | | | | |
|-----------------|--------------------|-------|--|-------|
| CO | C _{Gas} | 13.76 | C _{Gas} at Reference O ₂ | 15.87 |
| | Ref O ₂ | 15% | | |
| | %O ₂ | 15.79 | | |
| NO _x | C _{Gas} | 18.74 | C _{Gas} at Reference O ₂ | 21.62 |
| | Ref O ₂ | 15% | | |
| | %O ₂ | 15.79 | | |
| SO ₂ | C _{Gas} | - | C _{Gas} at Reference O ₂ | - |
| | Ref O ₂ | - | | |
| | %O ₂ | 15.79 | | |

Pollutant Emission Rate - Using Oxygen-Based Fuel Factor - lb/MMBtu

$$ER = C_{Gas} \times CFC \times Fd \times (20.9/(20.9-\%O_2))$$

ER_{CO}, ER_{NO_x}, ER_{SO₂} = Pollutant emission rates for NO_x, CO, and SO₂, respectively. (lb/MMBtu)

C_{Gas} = Average effluent gas concentration adjusted for bias, ppmv

CFC = Conversion Factors for Concentrations from Section 17 - Table 19-1- Method 19 Title 40 Part 60 (Values below)

7.269E-08 = Conversion constant for CO.

1.194E-07 = Conversion constant for NO_x.

1.660E-07 = Conversion constant for SO₂.

F_d = Oxygen Based Fuel Factor (dscf/MMBtu)

%O₂ = Average effluent oxygen concentration, as measured.

Note: C_{Gas} and %O₂ are on matching moisture basis, i.e. wet to wet and dry to dry.

| | | | | |
|-----------------|------------------|--------|------------------------------|----------|
| CO | C _{Gas} | 13.76 | ER _{CO} | 0.035199 |
| | F _d | 8615.6 | | |
| | %O ₂ | 15.79 | | |
| NO _x | C _{Gas} | 18.74 | ER _{NO_x} | 0.078785 |
| | F _d | 8615.6 | | |
| | %O ₂ | 15.79 | | |

Pollutant Emission Rate - lb/MMBtu - Based on Volumetric Flow Rate and Heat Input

$$ER = \frac{\text{lb/hr}}{\text{MMBtu/hr Heat Input}}$$

ER_{CO}, ER_{NO_x}, ER_{SO₂} = Pollutant emission rates for NO_x, CO, and SO₂, respectively. (lb/MMBtu)

lb/hr - Calculated emissions rates for NO_x, CO and SO₂

| | | |
|-----------------|------------------------------|----------------|
| CO | lb/hr | - |
| | Heat Input | 319.5 |
| | ER _{CO} | 11.24602 lb/hr |
| NO _x | lb/hr | - |
| | Heat Input | 319.5 |
| | ER _{NO_x} | 25.17187 lb/hr |

| | <u>lb/m</u> | <u>mw</u> | <u>gpm</u> | | | |
|----------------|-------------|-----------|------------|------------|----------|--|
| | 182 | 23 | 27 | | | |
| H2O/Fuel Ratio | scfm | lb/m | lb/hr | lb/hr, h2o | h2o/fuel | |
| | 3,837.2 | 182.00 | 10920.00 | 13,932 | 1.28 | |
| Heat Rate | scfm | MMBTU/hr | btu/kwh | | | |
| | 3,837.2 | 234.83 | 10,210 | | | |
| Stack Flow | scfm | dscfm | | | | |
| | 3,837.2 | 106,341 | | | | |

Appendix C.2

Gaseous Emission Spreadsheets

Reference Method Test Run Data

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 1 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|-------------------------------------|----------------------------|
| Test Start Date: | Monday, September 20, 2021 |
| Operator: | Tom Cassin |
| F Factor Information | |
| F _c | - |
| F _d | 8615.6 |
| Reference Method Measurement Basis: | Dry - Extractive |
| CEMS Analyzer Measurement Basis: | - |

Uncorrected Reference Method Analyzer Results

| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) |
|------------|-----------|--------------|------------|------------|-------------------------|-------------------------|----------------------------|-----------------------------|
| 1 | 09/20/21 | 10:26 | 11:58 | 13.82 | 18.63 | - | 15.77 | 3.05 |
| 2 | 09/20/21 | 12:19 | 13:47 | 8.77 | 20.91 | - | 15.79 | 3.04 |
| 3 | 09/20/21 | 14:05 | 15:31 | 27.15 | 17.52 | - | 15.94 | 2.90 |

Calibration Corrected Reference Method Analyzer Results

Moisture Basis As Measured

| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) |
|------------|-----------|--------------|------------|------------|-------------------------|-------------------------|----------------------------|-----------------------------|
| 1 | 09/20/21 | 10:26 | 11:58 | 13.76 | 18.74 | - | 15.79 | 3.07 |
| 2 | 09/20/21 | 12:19 | 13:47 | 8.93 | 21.03 | - | 15.84 | 3.07 |
| 3 | 09/20/21 | 14:05 | 15:31 | 27.12 | 17.48 | - | 16.00 | 2.92 |

Reference Method Emission Rate Summary - lb/MMBtu

| Run Number | Test Date | CO lb/MMBtu | NO _x lb/MMBtu | SO ₂ lb/MMBtu | F _c Factor | F _d Factor |
|------------|-----------|-------------|--------------------------|--------------------------|-----------------------|-----------------------|
| 1 | 09/20/21 | 0.035 | 0.0788 | - | - | 8615.6 |
| 2 | 09/20/21 | 0.023 | 0.0893 | - | - | 8615.6 |
| 3 | 09/20/21 | 0.072 | 0.077 | - | - | 8615.6 |

Reference Method Emission Rate Summary - lb/hr Using Heat Input and lb/MMBtu Emissions Factor

| Run Number | Test Date | CO lb/hr | NO _x lb/hr | SO ₂ lb/hr | Heat Input MMBtu/hr |
|------------|-----------|----------|-----------------------|-----------------------|---------------------|
| 1 | 09/20/21 | 11.25 | 25.17 | - | 319.5 |
| 2 | 09/20/21 | 7.03 | 27.20 | - | 304.56 |
| 3 | 09/20/21 | 22.75 | 24.09 | - | 314.05 |

Test Run Data Corrected to Reference O₂

| Run Number | Test Date | Corrected Data | | | Data Used for Correction | | | |
|------------|-----------|----------------------------------|---|---------------------------------------|--------------------------|-----------------------|-----------------------|----------------------------|
| | | CO ppmvd Corrected to 15% Oxygen | NO _x ppmvd Corrected to 15% Oxygen | SO ₂ ppmvd Corrected to NA | CO ppmvd | NO _x ppmvd | SO ₂ ppmvd | O ₂ (% v/v Dry) |
| 1 | 09/20/21 | 15.87 | 21.62 | - | 13.76 | 18.74 | - | 15.79 |
| 2 | 09/20/21 | 10.41 | 24.51 | - | 8.93 | 21.03 | - | 15.84 |
| 3 | 09/20/21 | 32.66 | 21.05 | - | 27.12 | 17.48 | - | 16.00 |

Method 25A - Total Hydrocarbon - THC- Data

| | |
|-----------------|----------------------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack |
| Project Number: | PROJ-01221 |
| Test Date: | Monday, September 20, 2021 |
| Operator: | Tom Cassin |

| Location | Source 1 | | | |
|--|-----------|-----------|-----------|---------|
| Test Run Number | 1 | 2 | 3 | Average |
| Condition | Base | Base | Base | |
| Test Date | 9/20/2021 | 9/20/2021 | 9/20/2021 | |
| Test Start | 10:26 | 12:19 | 14:05 | |
| Test End | 11:58 | 13:47 | 15:31 | |
| Test Duration (Minutes) | 1:32 | 1:28 | 1:26 | 1:28:40 |
| THC (ppmvw as Propane) | 0.62 | 0.25 | 2.12 | 1.00 |
| Volumetric Flow Rate (scfm) | 165304.87 | 159436.67 | 169603.32 | 164782 |
| THC (lb/hr as Propane) | 0.70 | 0.27 | 2.46 | 1.15 |
| THC (lb/hr as Carbon) | 0.57 | 0.22 | 2.01 | 0.94 |
| Moisture Content (%) | 10.59 | 10.35 | 10.62 | 10.52 |
| Oxygen (% Dry) | 15.79 | 15.84 | 16 | 15.88 |
| F _d | 8616 | 8616 | 8616 | 8616 |
| THC (lb/MMBtu) - F _d Basis | 0.003 | 0.001 | 0.010 | 0.005 |
| THC (ppmvw as Propane @ 15% O ₂) | 0.72 | 0.29 | 2.55 | 1.19 |
| THC (ppmvd as Propane @ 15% O ₂) | 0.80 | 0.33 | 2.85 | 1.33 |

SOURCE TEST DATA SUMMARY

| | | | | |
|---|----------|----------|----------|----------|
| Client..... | GE Power | | | |
| Unit / Location..... | Unit 1 | | | |
| Reference temperature, °F..... | 68 | | | |
| Test number..... | Grab 1 | Grab 1 | Grab 1 | Average |
| Date..... | 9-20-21 | 9-20-21 | 9-20-21 | -- |
| <u>FUEL DATA</u> | | | | |
| Fuel "F" factor @ 68°F, dscf/MMBtu..... | 8,616 | 8,616 | 8,616 | 8,616 |
| Fuel "F" factor @ T _{ref} , dscf/MMBtu..... | 8,616 | 8,616 | 8,616 | 8,616 |
| Fuel higher heating value (HHV), Btu/scf..... | 1,048 | 1,048 | 1,048 | 1,048 |
| Fuel density, lb/scf..... | 0.0454 | 0.0454 | 0.0454 | 0.0454 |
| Fuel flow, lb/sec..... | 3.79 | 3.61 | 3.73 | 3.71 |
| Fuel flow, scfh..... | 300,529 | 286,256 | 295,771 | 294,185 |
| Fuel Sulfur, ppm weight..... | 1.0 | 1.0 | 1.0 | 1.0 |
| Fuel Sulfur, gr/100 scf..... | 0.0318 | 0.0318 | 0.0318 | 0.0318 |
| <u>ANALYZER DATA</u> | | | | |
| O ₂ , % volume dry..... | 15.79 | 15.84 | 16.00 | 15.88 |
| <u>VOLUMETRIC FLOW RATE</u> | | | | |
| Stack flow rate - based on fuel, dscfm..... | 184,884 | 177,843 | 189,755 | 184,161 |
| <u>EMISSIONS</u> | | | | |
| SO ₂ concentrations, ppm volume dry..... | 0.015 | 0.015 | 0.014 | 0.015 |
| ^{2b} SO ₂ concentrations, ppm @ 15% O ₂ dry..... | 0.017 | 0.017 | 0.017 | 0.017 |
| ^{2c} SO ₂ mass emissions, lb/hr..... | 0.027 | 0.026 | 0.027 | 0.027 |
| ^{2f} SO ₂ mass emissions, lb/MMBtu..... | 0.000087 | 0.000087 | 0.000087 | 0.000087 |

Reference Method Test Run Data

| | |
|-----------------|--------------|
| Client: | GE Power |
| Facility: | Green Leaf 1 |
| Source: | TM 2500 GT 2 |
| Test Location: | Stack |
| Condition/Load: | Base |
| Project Number: | PROJ-011221 |

| | |
|------------------|-----------------------------|
| Test Start Date: | Tuesday, September 21, 2021 |
| Operator: | Tom Cassin |

| F Factor Information | |
|----------------------|--------|
| F _c | - |
| F _d | 8621.5 |

| | |
|-------------------------------------|------------------|
| Reference Method Measurement Basis: | Dry - Extractive |
| CEMS Analyzer Measurement Basis: | - |

Uncorrected Reference Method Analyzer Results

| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) |
|------------|-----------|--------------|------------|------------|-------------------------|-------------------------|----------------------------|-----------------------------|
| 1 | 09/21/21 | 8:19 | 9:39 | 10.97 | 19.19 | - | 15.63 | 3.12 |
| 2 | 09/21/21 | 9:55 | 11:15 | 12.54 | 17.78 | - | 15.74 | 3.04 |
| 3 | 09/21/21 | 11:33 | 12:56 | 9.91 | 18.66 | - | 15.98 | 2.87 |

Calibration Corrected Reference Method Analyzer Results

Moisture Basis As Measured

| Run Number | Test Date | Start Minute | End Minute | CO (ppmvd) | NO _x (ppmvd) | SO ₂ (ppmvd) | O ₂ (% v/v Dry) | CO ₂ (% v/v Dry) |
|------------|-----------|--------------|------------|------------|-------------------------|-------------------------|----------------------------|-----------------------------|
| 1 | 09/21/21 | 8:19 | 9:39 | 10.97 | 19.21 | - | 15.59 | 3.13 |
| 2 | 09/21/21 | 9:55 | 11:15 | 12.68 | 17.83 | - | 15.74 | 3.05 |
| 3 | 09/21/21 | 11:33 | 12:56 | 10.03 | 18.75 | - | 16.02 | 2.88 |

Reference Method Emission Rate Summary - lb/MMBtu

| Run Number | Test Date | CO lb/MMBtu | NO _x lb/MMBtu | SO ₂ lb/MMBtu | F _c Factor | F _d Factor |
|------------|-----------|-------------|--------------------------|--------------------------|-----------------------|-----------------------|
| 1 | 09/21/21 | 0.027 | 0.0778 | - | - | 8621.5 |
| 2 | 09/21/21 | 0.032 | 0.0743 | - | - | 8621.5 |
| 3 | 09/21/21 | 0.027 | 0.083 | - | - | 8621.5 |

Reference Method Emission Rate Summary - lb/hr Using Heat Input and lb/MMBtu Emissions Factor

| Run Number | Test Date | CO lb/hr | NO _x lb/hr | SO ₂ lb/hr | Heat Input MMBtu/hr |
|------------|-----------|----------|-----------------------|-----------------------|---------------------|
| 1 | 09/21/21 | 8.99 | 25.87 | - | 332.5 |
| 2 | 09/21/21 | 10.29 | 23.77 | - | 319.95 |
| 3 | 09/21/21 | 8.47 | 26.01 | - | 314.41 |

Test Run Data Corrected to Reference O₂

| Run Number | Test Date | Corrected Data | | | Data Used for Correction | | | |
|------------|-----------|----------------------------------|---|---------------------------------------|--------------------------|-----------------------|-----------------------|----------------------------|
| | | CO ppmvd Corrected to 15% Oxygen | NO _x ppmvd Corrected to 15% Oxygen | SO ₂ ppmvd Corrected to NA | CO ppmvd | NO _x ppmvd | SO ₂ ppmvd | O ₂ (% v/v Dry) |
| 1 | 09/21/21 | 12.18 | 21.34 | - | 10.97 | 19.21 | - | 15.59 |
| 2 | 09/21/21 | 14.49 | 20.38 | - | 12.68 | 17.83 | - | 15.74 |
| 3 | 09/21/21 | 12.14 | 22.69 | - | 10.03 | 18.75 | - | 16.02 |

Method 25A - Total Hydrocarbon - THC- Data

| | |
|-----------------|-----------------------------|
| Client: | GE |
| Facility: | Greenleaf 1 |
| Test Location: | Stack GT2 |
| Project Number: | PROJ-011221 |
| Test Date: | Tuesday, September 21, 2021 |
| Operator: | Tom Cassin |

| Location | Source 1 | | | |
|--|-----------|-----------|-----------|---------|
| Test Run Number | 1 | 2 | 3 | Average |
| Condition | Base | Base | Base | |
| Test Date | 9/21/2021 | 9/21/2021 | 9/21/2021 | |
| Test Start | 8:19 | 9:55 | 11:33 | |
| Test End | 9:39 | 11:15 | 12:56 | |
| Test Duration (Minutes) | 1:20 | 1:20 | 1:23 | 1:21:00 |
| THC (ppmvw as Propane) | 0.97 | 0.72 | 0.51 | 0.73 |
| Volumetric Flow Rate (scfm) | 164846.23 | 162136.92 | 169282.9 | 165422 |
| THC (lb/hr as Propane) | 1.10 | 0.80 | 0.59 | 0.83 |
| THC (lb/hr as Carbon) | 0.90 | 0.65 | 0.48 | 0.68 |
| Moisture Content (%) | 11.09 | 11.49 | 11.22 | 11.27 |
| Oxygen (% Dry) | 15.59 | 15.74 | 16.02 | 15.78 |
| F _d | 8622 | 8622 | 8622 | 8622 |
| THC (lb/MMBtu) - F _d Basis | 0.004 | 0.003 | 0.002 | 0.003 |
| THC (ppmvw as Propane @ 15% O ₂) | 1.08 | 0.82 | 0.62 | 0.84 |
| THC (ppmvd as Propane @ 15% O ₂) | 1.21 | 0.92 | 0.69 | 0.94 |
| THC (ppmvd as Propane) | 1.09 | 0.81 | 0.57 | 0.83 |

SOURCE TEST DATA SUMMARY

| | | | | |
|---|----------|----------|----------|----------|
| Client..... | GE Power | | | |
| Unit / Location..... | Unit 2 | | | |
| Reference temperature, °F..... | 68 | | | |
| Test number..... | Grab 1 | Grab 1 | Grab 1 | Average |
| Date..... | 9-21-21 | 9-21-21 | 9-21-21 | -- |
| <u>FUEL DATA</u> | | | | |
| Fuel "F" factor @ 68°F, dscf/MMBtu..... | 8,622 | 8,622 | 8,622 | 8,622 |
| Fuel "F" factor @ T _{ref} , dscf/MMBtu..... | 8,622 | 8,622 | 8,622 | 8,622 |
| Fuel higher heating value (HHV), Btu/scf..... | 1,008 | 1,008 | 1,008 | 1,008 |
| Fuel density, lb/scf..... | 0.0444 | 0.0444 | 0.0444 | 0.0444 |
| Fuel flow, lb/sec..... | 4.01 | 3.85 | 3.79 | 3.88 |
| Fuel flow, scfh..... | 325,135 | 312,162 | 307,297 | 314,865 |
| Fuel Sulfur, ppm weight..... | 2.3 | 2.3 | 2.3 | 2.3 |
| Fuel Sulfur, gr/100 scf..... | 0.0715 | 0.0715 | 0.0715 | 0.0715 |
| <u>ANALYZER DATA</u> | | | | |
| O ₂ , % volume dry..... | 15.59 | 15.74 | 16.02 | 15.78 |
| <u>VOLUMETRIC FLOW RATE</u> | | | | |
| Stack flow rate - based on fuel, dscfm..... | 185,408 | 183,185 | 190,677 | 186,423 |
| <u>EMISSIONS</u> | | | | |
| SO ₂ concentrations, ppm volume dry..... | 0.036 | 0.035 | 0.033 | 0.035 |
| ^{2b} SO ₂ concentrations, ppm @ 15% O ₂ dry..... | 0.040 | 0.040 | 0.040 | 0.040 |
| ^{2c} SO ₂ mass emissions, lb/hr..... | 0.066 | 0.064 | 0.063 | 0.064 |
| ^{2f} SO ₂ mass emissions, lb/MMBtu..... | 0.000202 | 0.000202 | 0.000202 | 0.000202 |

Appendix C.3

Moisture Emission Spreadsheets

| Run | One (1) | Two (2) | Three (3) |
|---------------------------------|-------------|-------------|-------------|
| Meter Temperatures in Degrees F | | | |
| 65 | 64 | 66 | 65 |
| 62 | 62 | 66 | 63 |
| 63 | 63 | 67 | 65 |
| 65 | 64 | 66 | 64 |
| 66 | 65 | 66 | 64 |
| 66 | 64 | 65 | 65 |
| 66 | 65 | 65 | 65 |
| 66 | 65 | 67 | 66 |
| 66 | 65 | 67 | 65 |
| 66 | 65 | 67 | 65 |
| 66 | 65 | 67 | 65 |
| 67 | 66 | 66 | 65 |
| 66 | 66 | 66 | 66 |
| 67 | 64 | 65 | 65 |
| 66 | 65 | 66 | 64 |
| Average Meter Temps.: | 65.0 (A) | 65.4 (A) | 66.3 (A) |

Company: GE Greenleaf 1
Unit: GT 1
Location: Stack
Date: 9/20/21

| INPUT DATA | | | |
|---|--------|--------|--------|
| Meter Volume. (cubic feet): | 44.162 | 43.051 | 43.427 |
| Water Caught (grams): | 100.1 | 95.1 | 98.5 |
| Measured Barometric Pressure ("Hg): | 29.9 | 29.9 | 29.9 |
| Sample Location Elevation (feet): | 25.0 | 25.0 | 25.0 |
| Corrected Barometric Pressure ("Hg) [Pb]: | 29.85 | 29.85 | 29.85 |
| Meter Correction Factor: | 1.026 | 1.026 | 1.026 |
| Average Delta H ("H2O): | 1.8 | 1.8 | 1.8 |
| Correction Temperature: | 0 | 0 | 0 |

| OUTPUT DATA | | | |
|-------------------------------|--------------|--------------|--------------|
| Metered Volume (Std.cu.ft.): | 39.779 | 38.747 | 39.020 |
| Moisture Volume (cubic feet): | 4.71 | 4.48 | 4.64 |
| Percent Moisture: | 10.59 | 10.35 | 10.62 |

Standard Conditions are (T) degrees F and 29.92" Hg

| Run | One (1) | Two (2) | Three (3) | | |
|---------------------------------|---------|---------|-----------|----|----|
| Meter Temperatures in Degrees F | | | | | |
| 64 | 63 | 66 | 65 | 68 | 66 |
| 64 | 63 | 67 | 65 | 68 | 66 |
| 65 | 63 | 67 | 65 | 69 | 67 |
| 65 | 64 | 66 | 67 | 69 | 67 |
| 66 | 63 | 68 | 66 | 68 | 66 |
| 64 | 64 | 68 | 67 | 68 | 68 |
| 64 | 65 | 67 | 66 | 70 | 68 |
| 65 | 65 | 69 | 66 | 69 | 67 |
| 66 | 64 | 69 | 67 | 69 | 67 |
| 65 | 65 | 68 | 68 | 68 | 66 |
| 66 | 64 | 67 | 66 | 70 | 68 |
| 66 | 63 | 67 | 66 | 69 | 67 |
| 67 | 65 | 69 | 67 | 70 | 68 |
| Average Meter Temps.: | 64.5 | 66.9 | 67.9 | | |
| | (A) | (A) | (A) | | |

| | |
|-----------|----------------|
| Company: | GE Grrenleaf 1 |
| Unit: | GT 2 |
| Location: | Stack |
| Date: | 9/21/21 |

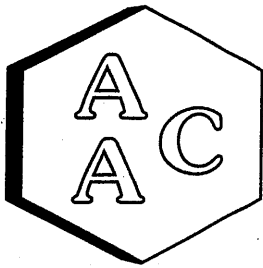
| INPUT DATA | | | |
|---|--------|--------|--------|
| Meter Volume. (cubic feet): | 43.886 | 45.046 | 45.138 |
| Water Caught (grams): | 105.4 | 112.1 | 109.1 |
| Measured Barometric Pressure ("Hg): | 30.0 | 30.0 | 30.0 |
| Sample Location Elevation (feet): | 25.0 | 25.0 | 25.0 |
| Corrected Barometric Pressure ("Hg) [Pb]: | 29.99 | 29.99 | 29.99 |
| Meter Correction Factor: | 1.026 | 1.026 | 1.026 |
| Average Delta H ("H2O): | 1.9 | 1.9 | 1.9 |
| Correction Temperature: | 0 | 0 | 0 |

| OUTPUT DATA | | | |
|-------------------------------|--------------|--------------|--------------|
| Metered Volume (Std.cu.ft.): | 39.756 | 40.625 | 40.628 |
| Moisture Volume (cubic feet): | 4.96 | 5.28 | 5.13 |
| Percent Moisture: | 11.09 | 11.49 | 11.22 |

Standard Conditions are (T) degrees F and 29.92" Hg

APPENDIX D LABORATORY REPORTS

Appendix D.1 Method 18 Report



Atmospheric Analysis & Consulting, Inc.

CLIENT : Montrose Air Quality Services
PROJECT NAME : GE
PROJECT NUMBER : PROJ-011221
AAC PROJECT NO. : 211691
REPORT DATE : 10/08/2021

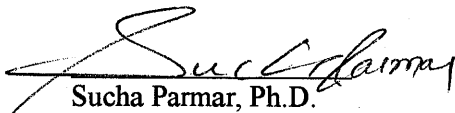
On September 24, 2021, Atmospheric Analysis & Consulting, Inc. received twelve (12) Tedlar Bags for Methane and Ethane analysis by EPA 18 Modified. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

| Client ID | Lab No. | Client ID | Lab No. |
|-------------|--------------|---------------|--------------|
| GT 1-M18-R1 | 211691-23665 | Unit 1-M18-R1 | 211691-23671 |
| GT 1-M18-R2 | 211691-23666 | Unit 1-M18-R2 | 211691-23672 |
| GT 1-M18-R3 | 211691-23667 | Unit 1-M18-R3 | 211691-23673 |
| GT 2-M18-R1 | 211691-23668 | Unit 2-M18-R1 | 211691-23674 |
| GT 2-M18-R2 | 211691-23669 | Unit 2-M18-R2 | 211691-23675 |
| GT 2-M18-R3 | 211691-23670 | Unit 2-M18-R3 | 211691-23676 |

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

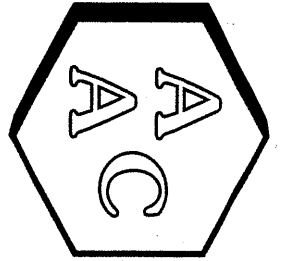
I certify that this data is technically accurate, complete, and in compliance with the terms and conditions of the contract. No problems were encountered during receiving, preparation, and/or analysis of these samples. The Technical Director or his/her designee, as verified by the following signature, 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 6 pages.





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Montrose Air Quality Services
 PROJECT NO. : 211691
 MATRIX : Air
 UNITS : ppmV

SAMPLING DATE : 09/20-21/2021
 RECEIVING DATE : 09/24/2021
 ANALYSIS DATE : 09/24/2021
 REPORT DATE : 10/08/2021

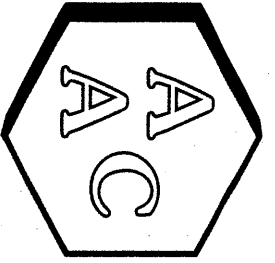
Methane and Ethane Analysis by EPA 18 Modified

| Client ID | GT 1-M18-R1 | SRL | GT 1-M18-R2 | SRL | GT 1-M18-R3 | SRL | Reporting Limit (RL) |
|-----------------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|----------------------|
| AAC ID | 211691-23665 | (RL x DF's) | 211691-23666 | (RL x DF's) | 211691-23667 | (RL x DF's) | |
| Analyte | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | |
| C ₁ (as Methane) | 1.91 | 1 | 1.41 | 1 | 8.07 | 1 | 0.5 |
| C ₂ (as Ethane) | <SRL | 1 | <SRL | 1 | <SRL | 1 | 0.5 |

| Client ID | GT 2-M18-R1 | SRL | GT 2-M18-R2 | SRL | GT 2-M18-R3 | SRL | Reporting Limit (RL) |
|-----------------------------|--------------|--------------------|--------------|--------------------|--------------|--------------------|----------------------|
| AAC ID | 211691-23668 | (RL x DF's) | 211691-23669 | (RL x DF's) | 211691-23670 | (RL x DF's) | |
| Analyte | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | |
| C ₁ (as Methane) | 3.98 | 1 | 2.06 | 1 | 2.36 | 1 | 0.5 |
| C ₂ (as Ethane) | <SRL | 1 | <SRL | 1 | <SRL | 1 | 0.5 |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)





Atmospheric Analysis & Consulting, Inc.

LABORATORY ANALYSIS REPORT

CLIENT : Montrose Air Quality Services
PROJECT NO. : 211691
MATRIX : Air
UNITS : ppmV

SAMPLING DATE : 09/21-22/2021
RECEIVING DATE : 09/24/2021
ANALYSIS DATE : 09/24/2021
REPORT DATE : 10/08/2021

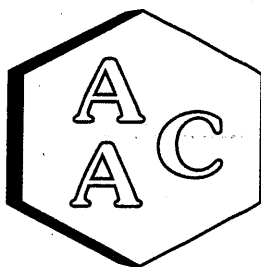
Methane and Ethane Analysis by EPA 18 Modified

| Client ID | Unit 1-M18-R1 AAC ID | SRL (RL x DF's) | Unit 1-M18-R2 211691-23672 | | Unit 1-M18-R3 211691-23673 | | SRL (RL x DF's) | Reporting Limit (RL) |
|-----------------------------|-------------------------|--------------------|-------------------------------|--------------------|-------------------------------|--------------------|--------------------|----------------------|
| | | | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | | |
| C ₁ (as Methane) | 9.59 | 1 | 1 | 1 | 1 | 1 | 0.5 | 0.5 |
| C ₂ (as Ethane) | 0.715 | 1 | 0.683 | 1 | <SRL | 1 | 0.5 | 0.5 |

| Client ID | Unit 2-M18-R1 AAC ID | SRL (RL x DF's) | Unit 2-M18-R2 211691-23675 | | Unit 2-M18-R3 211691-23676 | | SRL (RL x DF's) | Reporting Limit (RL) |
|-----------------------------|-------------------------|--------------------|-------------------------------|--------------------|-------------------------------|--------------------|--------------------|----------------------|
| | | | Result | Analysis Dil. Fac. | Result | Analysis Dil. Fac. | | |
| C ₁ (as Methane) | 1.32 | 1 | 1.17 | 1 | 1.24 | 1 | 0.5 | 0.5 |
| C ₂ (as Ethane) | <SRL | 1 | <SRL | 1 | <SRL | 1 | 0.5 | 0.5 |

Sample Reporting Limit (SRL) is equal to Reporting Limit (RL) x Canister Dilution Factor x Analysis Dilution Factor (if applicable)





Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report

Date Analyzed : 09/24/2021
 Analyst : DL/DB
 Units : ppmv

Instrument ID : FID #3
 Calb Date : 03/31/21
 Reporting Limit : 0.5 ppmv

I - Opening Continuing Calibration Verification - EPA 18 Mod

| AAC ID | Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------|------------|---------|--------|---------|--------|---------|--------|
| CCV | Spike Conc | 98.9 | 99.1 | 98.7 | 98.1 | 98.1 | 99.7 |
| | Result | 90.7 | 92.0 | 91.0 | 91.4 | 91.3 | 92.0 |
| | % Rec * | 91.7 | 92.8 | 92.1 | 93.2 | 93.0 | 92.2 |

II - Method Blank - EPA 18 Mod

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

III - Laboratory Control Spike & Duplicate - EPA 18 Mod

| AAC ID | Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|-----------------------|---------------|---------|--------|---------|--------|---------|--------|
| Lab Control Standards | Sample Conc | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Spike Conc | 98.9 | 99.1 | 98.7 | 98.1 | 98.1 | 99.7 |
| | LCS Result | 89.5 | 91.7 | 90.1 | 90.6 | 92.2 | 91.2 |
| | LCSD Result | 92.3 | 93.8 | 92.2 | 92.9 | 93.8 | 93.4 |
| | LCS % Rec ** | 90.6 | 92.5 | 91.2 | 92.3 | 94.0 | 91.5 |
| | LCSD % Rec ** | 93.4 | 94.6 | 93.4 | 94.7 | 95.5 | 93.6 |
| | % RPD *** | 3.0 | 2.3 | 2.3 | 2.5 | 1.7 | 2.3 |

IV - Sample & Sample Duplicate - EPA 18 Mod

| AAC ID | Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------|------------|---------|--------|---------|--------|---------|--------|
| 212443-22500 | Sample | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Sample Dup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Mean | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | % RPD *** | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

V - Matrix Spike & Duplicate - EPA 18 Mod

| AAC ID | Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------------|--------------|---------|--------|---------|--------|---------|--------|
| 212443-22500 | Sample Conc | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Spike Conc | 49.4 | 49.6 | 49.4 | 49.0 | 49.1 | 49.9 |
| | MS Result | 48.3 | 48.6 | 48.0 | 48.4 | 49.6 | 52.2 |
| | MSD Result | 50.8 | 51.7 | 51.3 | 52.0 | 54.0 | 58.0 |
| | MS % Rec ** | 97.6 | 98.2 | 97.2 | 98.7 | 101.0 | 104.6 |
| | MSD % Rec ** | 102.7 | 104.3 | 103.9 | 106.0 | 110.0 | 116.4 |
| | % RPD *** | 5.1 | 6.0 | 6.7 | 7.1 | 8.5 | 10.6 |

VI - Closing Continuing Calibration Verification - EPA 18 Mod

| AAC ID | Analyte | Methane | Ethane | Propane | Butane | Pentane | Hexane |
|--------|------------|---------|--------|---------|--------|---------|--------|
| CCV | Spike Conc | 98.9 | 99.1 | 98.7 | 98.1 | 98.1 | 99.7 |
| | Result | 97.1 | 99.3 | 97.6 | 97.9 | 97.7 | 98.2 |
| | % Rec * | 98.3 | 100.2 | 98.9 | 99.8 | 99.6 | 98.4 |

* Must be 85-115%

** Must be 75-125%

*** Must be < 25%

ND = Not Detected

<RL = less than Reporting Limit



Chain of Custody

Contact Information

Montrose Contact Information
 Project Manager: John Hammer
 Contact Email: jhammer@montrose-env.com
 Contact Phone: 630-715-3259
 Montrose Office: 630-715-3259

Sample Information

Sample System Prepared By: Tom Cassin
 Sample Recovery Performed By: Tom Cassin

Requested Analysis

Client: GE
 Facility/Plant: Greenleaf 1
 Collection/Test Source: GT-Stack
 Project Number: PROJ-011221

| Sample ID Number | Sample Collection Date | Description of Sample | Number of Containers | Run Time/Sample Collection Time | Method 18 | Comments |
|------------------|------------------------|-----------------------|----------------------|---------------------------------|-----------|----------|
| 1 | 09/20/21 | GT 1-M18-R1 | 1 | 10:26-11:58 | X | Bag |
| 2 | 09/20/21 | GT 1-M18-R2 | 1 | 12:19-13:47 | X | Bag |
| 3 | 09/20/21 | GT 1-M18-R3 | 1 | 14:05-15:32 | X | Bag |
| 4 | 09/21/21 | GT 2-M18-R1 | 1 | 8:19-9:40 | X | Bag |
| 5 | 09/21/21 | GT 2-M18-R2 | 1 | 9:55-11:15 | X | Bag |
| 6 | 09/21/21 | GT 2-M18-R3 | 1 | 11:33-12:56 | X | Bag |

Custody Record

Relinquished By: Tom Cassin Date: 9/23/21

Print Sign

Lab: AA&C
 Attn: John Yokoyama
 Phone: 805-650-1642

Lab Address

Street 1: 1534 Eastman Ave. Suite A

Street 2:

City, State Zip Code: Ventura, CA 93003

Print Sign

TAT: 10 Day

Results Requested By Date:

9/24/21

0945

Shipping Information

Shipped By:

Shipped On Date:

Shipping Method:

Shipping Remarks or Special Handling Instructions:

Special Instructions for Lab:

Project Remarks:

Notes

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Page 6 of 7



Chain of Custody

211691

Montrose Contact Information

Project Manager: John Hamner
 Contact Email: jhamne@montrose-env.com
 Contact Phone: 630-715-3259
 Montrose Office: 630-715-3259

Contact Information

Sample System Prepared By: Finnegan Schall
 Sample Recovery Performed By: Finnegan Schall

Sample Information

| Sample ID Number | Sample Collection Date | Description of Sample | Number of Containers | Run Time/Sample Collection Time | Method 18 | Comments |
|------------------|------------------------|-----------------------|----------------------|---------------------------------|-----------|----------|
| 1-1 | 09/21/21 | Unit 1-M18-R1 | 1 | 830-1045 | X | Bag |
| 1-2 | 09/21/21 | Unit 1-M18-R2 | 1 | 1051-1228 | X | Bag |
| 1-3 | 09/21/21 | Unit 1-M18-R3 | 1 | 1235-1459 | X | Bag |
| 2-1 | 09/22/21 | Unit 2-M18-R1 | 1 | 930-1043 | X | Bag |
| 2-2 | 09/22/21 | Unit 2-M18-R2 | 1 | 1051-1206 | X | Bag |
| 2-3 | 09/22/21 | Unit 2-M18-R3 | 1 | 1215-1326 | X | Bag |

Custody Record

Relinquished By: Tom Cassin
 Date: 9/22/21

Lab Information

Lab: AA&C
 Attn: John Yokoyama
 Phone: 805-650-1642

Shipping Information

Shipped By: _____
 Shipped On Date: _____
 Shipping Method: _____

Notes

Special Instructions for Lab: _____

Street 1: 1534 Eastman Ave. Suite A
 Street 2: _____
 City, State Zip Code: Ventura, CA 93003

Results Requested By Date: TAT: 10 Day

Shipping Remarks or Special Handling Instructions: _____

Project Remarks: _____

Print Sign: ES Schall 9/22/21
 Print Sign: Victor Garcia 9/23/21
 Print Sign: Nicholas Jones 10/08
 Print Sign: _____
 Print Sign: _____
 Print Sign: _____
 Print Sign: _____

Appendix D.2 Fuel Gas Analysis

Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400

FAX: (281) 495-2410

| | | | |
|------------------------|-----------------------------------|---------------------------|------------------|
| CLIENT: | Montrose Air Quality Services | REQUESTED BY: | Mr. John Hamner |
| CLIENT PROJECT: | Yuba City, CA Proj-PROJ-011221 | PURCHASE ORDER NO: | PO-016934 |
| LABORATORY NO: | 95642-001 | REPORT DATE: | October 14, 2021 |
| SAMPLE: | 7 Fuel Sample-1 (6022) 2021-09-20 | | |

Composition of Natural Gas by Gas Chromatography, ASTM D 1945.a

| | <u>Results, Mol %</u> |
|----------------|-----------------------|
| Hydrogen | 0.003 |
| Oxygen | 0.007 |
| Nitrogen | 0.480 |
| Carbon Dioxide | 0.759 |
| Methane | 92.920 |
| Ethane | 5.220 |
| Propane | 0.478 |
| iso-Butane | 0.047 |
| n-Butane | 0.059 |
| iso-Pentane | 0.011 |
| n-Pentane | 0.008 |
| Hexane Plus | 0.008 |
| TOTAL | 100.000 |

Calorific Value and Specific Gravity, Calculated at 14.696 psia and 60°F, ASTM D 3588.e

| | <u>Results</u> |
|----------------------------------|----------------|
| Specific Gravity at 60°F (air=1) | 0.5952 |
| NET (Dry basis), BTU/scf | 944.8 |
| Gross (Dry basis), BTU/scf | 1,048 |
| NET (Dry basis), BTU/lb | 20,800 |
| Gross (Dry basis), BTU/lb | 23,058 |

| <u>Parameter</u> | <u>Results</u> |
|--|----------------|
| Total Sulfur in Petroleum Gas by Microcoulometry, ASTM D 3246, ppm | <1.0 |

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Mr. Ikenna "Ike" Ezeji
Laboratory Director

Cert # L19-636,C2018-02457

Quality Management System Certified to ISO 9001:2015, and ISO/IEC 17025:2017

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Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099
P.O. BOX 741905, HOUSTON, TEXAS 77274

TEL: (281) 495-2400

FAX: (281) 495-2410

| | | | |
|------------------------|-----------------------------------|---------------------------|------------------|
| CLIENT: | Montrose Air Quality Services | REQUESTED BY: | Mr. John Hamner |
| CLIENT PROJECT: | Yuba City, CA Proj-PROJ-011221 | PURCHASE ORDER NO: | PO-016934 |
| LABORATORY NO: | 95642-003 | REPORT DATE: | October 14, 2021 |
| SAMPLE: | 9 Fuel Sample-3 (6457) 2021-09-21 | | |

Composition of Natural Gas by Gas Chromatography, ASTM D 1945.a

| | <u>Results, Mol %</u> |
|----------------|-----------------------|
| Hydrogen | 0.002 |
| Oxygen | 0.006 |
| Nitrogen | 2.076 |
| Carbon Dioxide | 0.433 |
| Methane | 94.749 |
| Ethane | 2.435 |
| Propane | 0.230 |
| iso-Butane | 0.023 |
| n-Butane | 0.029 |
| iso-Pentane | 0.006 |
| n-Pentane | 0.004 |
| Hexane Plus | 0.007 |
| TOTAL | 100.000 |

Calorific Value and Specific Gravity, Calculated at 14.696 psia and 60°F, ASTM D 3588.e

| | <u>Results</u> |
|----------------------------------|----------------|
| Specific Gravity at 60°F (air=1) | 0.5818 |
| NET (Dry basis), BTU/scf | 908.6 |
| Gross (Dry basis), BTU/scf | 1,008 |
| NET (Dry basis), BTU/lb | 20,464 |
| Gross (Dry basis), BTU/lb | 22,707 |

| <u>Parameter</u> | <u>Results</u> |
|--|----------------|
| Total Sulfur in Petroleum Gas by Microcoulometry, ASTM D 3246, ppm | 2.3 |

Respectfully submitted
For Texas OilTech Laboratories, L.P.

Mr. Ikenna "Ike" Ezeji
Laboratory Director

Cert # L19-636,C2018-02457

Quality Management System Certified to ISO 9001:2015, and ISO/IEC 17025:2017

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FUEL F-FACTOR CALCULATIONS
GE GreenLeaf1 GT1
9/20/2021

| SPECIES | MW | MOLE % | MOLE % (normalized) | MW*% | HHV | BTU/SCF | LHV | BTU/SCF | C | H | O | N | ATOMS / MOLE | | | |
|---|-------|--------|---------------------|-------------------------|---------|---------|---------|---------|-------|-------|------|------|--------------|-------|------|------|
| | | | | | | | | | | | | | C | H | O | N |
| H ₂ (Hydrogen) | 2.02 | 0.003 | 0.003 | 0.01 | 324.20 | 0.01 | 273.93 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 |
| O ₂ (Oxygen) | 32.00 | 0.007 | 0.007 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 |
| N ₂ (Nitrogen) | 28.01 | 0.480 | 0.480 | 13.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.00 | 0.00 | 0.00 | 2.00 |
| CO ₂ (Carbon Dioxide) | 44.01 | 0.759 | 0.759 | 33.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.24 | 0.00 | 1.00 | 0.00 | 2.00 | 0.00 |
| C ₁ (Methane) | 16.04 | 92.920 | 92.920 | 1490.7 | 1010.00 | 938.49 | 909.40 | 845.01 | 11.15 | 3.72 | 0.00 | 0.00 | 1.00 | 4.00 | 0.00 | 0.00 |
| C ₂ (Ethane) | 30.07 | 5.220 | 5.220 | 156.96 | 1769.70 | 92.38 | 1618.70 | 84.50 | 1.25 | 0.31 | 0.00 | 0.00 | 2.00 | 6.00 | 0.00 | 0.00 |
| C ₃ (Propane) | 44.10 | 0.478 | 0.478 | 21.08 | 2516.10 | 12.03 | 2314.90 | 11.07 | 0.17 | 0.04 | 0.00 | 0.00 | 3.00 | 8.00 | 0.00 | 0.00 |
| ISO C ₄ (Isobutane / Methylpropane) | 58.12 | 0.047 | 0.047 | 2.73 | 3251.90 | 1.53 | 3000.40 | 1.41 | 0.02 | 0.00 | 0.00 | 0.00 | 4.00 | 10.00 | 0.00 | 0.00 |
| C ₄ / N-C ₄ (Butane / n-Butane) | 58.12 | 0.059 | 0.059 | 3.43 | 3262.30 | 1.92 | 3010.80 | 1.78 | 0.03 | 0.01 | 0.00 | 0.00 | 4.00 | 10.00 | 0.00 | 0.00 |
| ISO C ₅ (Isopentane) | 72.15 | 0.011 | 0.011 | 0.79 | 4000.90 | 0.44 | 3699.00 | 0.41 | 0.01 | 0.00 | 0.00 | 0.00 | 5.00 | 12.00 | 0.00 | 0.00 |
| C ₅ / N-C ₅ (Pentane / n-Pentane) | 72.15 | 0.008 | 0.008 | 0.58 | 4008.90 | 0.32 | 3703.90 | 0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 12.00 | 0.00 | 0.00 |
| C ₆₊ (Hexane+) | 86.00 | 0.008 | 0.008 | 0.69 | 4755.90 | 0.38 | 4403.90 | 0.35 | 0.01 | 0.00 | 0.00 | 0.00 | 6.00 | 14.00 | 0.00 | 0.00 |
| Ave. / Total | | 100.00 | 100.00 | 1724.04 | | 1047.50 | | 944.83 | 12.73 | 4.08 | 0.25 | 0.13 | | | | |
| Weight, % | | | 99.74 | | = | | | | 73.86 | 23.68 | 1.42 | 0.78 | | | | |
| Gas MW | | | 17.24 | | | | | | | | | | | | | |
| HHV Btu/scf= | | | 1047.50 | @ 60 F | | | | | | | | | | | | |
| LHV Btu/scf= | | | 944.83 | @ 60 F | | | | | | | | | | | | |
| Btu/lb.= | | | 23,058 | | | | | | | | | | | | | |
| lb./scf= | | | 0.0454 | | | | | | | | | | | | | |
| Fd"(60)= | | | 8,485.0 | (O ₂ Based) | | | | | | | | | | | | |
| Fd"(68)= | | | 8,615.6 | | | | | | | | | | | | | |
| Fc"(60)= | | | 1,012.7 | (CO ₂ Based) | | | | | | | | | | | | |
| Fc"(68)= | | | 1,028.3 | | | | | | | | | | | | | |

Calculations:

$$Fd''(68) = 10^6 * [3.64 * (H\%) + 1.53 * (C\%) + 0.14 * (N\%) - 0.46 * (O\%)] / HHV, Btu/lb$$

$$Fd''(60) = Fd''(68) * 520 R / 528 R$$

$$Fc''(68) = 10^6 * [0.321 * (C\%)] / HHV, Btu/lb$$

$$Fc''(60) = Fc''(68) * 520 R / 528 R$$

FUEL F-FACTOR CALCULATIONS
GE GreenLeaf1 GT2
9/21/2021

| SPECIES | MW | MOLE % | MOLE % (normalized) | MW*% | HHV | BTU/SCF | LHV | BTU/SCF | C | H | O | N | ATOMS / MOLE | | | | |
|---|-------|--------|---------------------|-------------------------|---------|---------|---------|---------|-------|-------|------|------|--------------|-------|------|------|------|
| | | | | | | | | | | | | | C | H | O | N | |
| H ₂ (Hydrogen) | 2.02 | 0.002 | 0.002 | 0.00 | 324.20 | 0.01 | 273.93 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 0.00 |
| O ₂ (Oxygen) | 32.00 | 0.006 | 0.006 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 |
| N ₂ (Nitrogen) | 28.01 | 2.076 | 2.076 | 58.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.00 | 0.00 | 0.00 | 2.00 | 0.00 |
| CO ₂ (Carbon Dioxide) | 44.01 | 0.433 | 0.433 | 19.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.14 | 0.00 | 1.00 | 0.00 | 2.00 | 0.00 | 0.00 |
| C ₁ (Methane) | 16.04 | 94.749 | 94.749 | 1520.0 | 1010.00 | 956.96 | 909.40 | 861.65 | 11.37 | 3.79 | 0.00 | 0.00 | 1.00 | 4.00 | 0.00 | 0.00 | 0.00 |
| C ₂ (Ethane) | 30.07 | 2.435 | 2.435 | 73.22 | 1769.70 | 43.09 | 1618.70 | 39.42 | 0.58 | 0.15 | 0.00 | 0.00 | 2.00 | 6.00 | 0.00 | 0.00 | 0.00 |
| C ₃ (Propane) | 44.10 | 0.230 | 0.230 | 10.14 | 2516.10 | 5.79 | 2314.90 | 5.32 | 0.08 | 0.02 | 0.00 | 0.00 | 3.00 | 8.00 | 0.00 | 0.00 | 0.00 |
| ISO C ₄ (Isobutane / Methylpropane) | 58.12 | 0.023 | 0.023 | 1.34 | 3251.90 | 0.75 | 3000.40 | 0.69 | 0.01 | 0.00 | 0.00 | 0.00 | 4.00 | 10.00 | 0.00 | 0.00 | 0.00 |
| C ₄ / N-C ₄ (Butane / n-Butane) | 58.12 | 0.029 | 0.029 | 1.69 | 3262.30 | 0.95 | 3010.80 | 0.87 | 0.01 | 0.00 | 0.00 | 0.00 | 4.00 | 10.00 | 0.00 | 0.00 | 0.00 |
| ISO C ₅ (Isopentane) | 72.15 | 0.006 | 0.006 | 0.43 | 4000.90 | 0.24 | 3699.00 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| C ₅ / N-C ₅ (Pentane / n-Pentane) | 72.15 | 0.004 | 0.004 | 0.29 | 4008.90 | 0.16 | 3703.90 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 12.00 | 0.00 | 0.00 | 0.00 |
| C ₆₊ (Hexane+) | 86.00 | 0.007 | 0.007 | 0.60 | 4755.90 | 0.33 | 4403.90 | 0.31 | 0.01 | 0.00 | 0.00 | 0.00 | 6.00 | 14.00 | 0.00 | 0.00 | 0.00 |
| Ave. / Total | | 100.00 | 100.00 | 1685.15 | | 1008.28 | | 908.63 | 12.13 | 3.96 | 0.14 | 0.58 | | | | | |
| Weight, % | | | 99.75 | | = | | | | 71.95 | 23.51 | 0.83 | 3.45 | | | | | |
| Gas MW | | | 16.85 | | | | | | | | | | | | | | |
| HHV Btu/scf= | | | 1008.28 | @ 60 F | | | | | | | | | | | | | |
| LHV Btu/scf= | | | 908.63 | @ 60 F | | | | | | | | | | | | | |
| Btu/lb.= | | | 22,707 | | | | | | | | | | | | | | |
| lb./scf= | | | 0.0444 | | | | | | | | | | | | | | |
| Fd"(60)= | | | 8,490.8 | (O ₂ Based) | | | | | | | | | | | | | |
| Fd"(68)= | | | 8,621.5 | | | | | | | | | | | | | | |
| Fc"(60)= | | | 1,001.8 | (CO ₂ Based) | | | | | | | | | | | | | |
| Fc"(68)= | | | 1,017.2 | | | | | | | | | | | | | | |

Calculations:

$$Fd''(68) = 10^6 * [3.64 * (H\%) + 1.53 * (C\%) + 0.14 * (N\%) - 0.46 * (O\%)] / HHV, Btu/lb$$

$$Fd''(60) = Fd''(68) * 520 R / 528 R$$

$$Fc''(68) = 10^6 * [0.321 * (C\%)] / HHV, Btu/lb$$

$$Fc''(60) = Fc''(68) * 520 R / 528 R$$

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: Justin Merryman
Title: Vice President – Technical
Email: jmerryman@montrose-env.com
Phone: (830) 387-1424

Name: Mr. John Hamner
Title: Account Manager
Email: jhamner@montrose-env.com
Phone: (630) 715-3259

CALPINE GREENLEAF 1

Yuba City, California

Unit A- Monthly Emissions & Operations Report

October - 2021

| Day | Gas Flow kscf | Heat Input mmBtu | Megawatt Hours | Water Injection gal | Water Injection On-Time | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time |
|------------|---------------|------------------|----------------|---------------------|-------------------------|----------|----------|----------|----------|----------|--------------|
| 01 | 126 | 128 | 11 | 16 | 0.6 | 10.5 | 0.0 | 5.5 | 1.4 | 0.6 | 0.7 |
| 02 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 03 | 183 | 187 | 15 | 19 | 0.7 | 15.3 | 0.0 | 8.0 | 2.0 | 0.9 | 0.8 |
| 04 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 05 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 06 | 47 | 48 | 4 | 15 | 0.5 | 3.9 | 0.0 | 2.1 | 0.5 | 0.2 | 0.7 |
| 07 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 08 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 09 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 10 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 11 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 12 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 13 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 14 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 15 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 16 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 17 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 18 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 19 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 20 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 21 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 22 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 23 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 24 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 25 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 26 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 27 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 28 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 29 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 30 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 31 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| Day | Gas Flow kscf | Heat Input mmBtu | Megawatt Hours | Water Injection gal | Water Injection On-Time | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time |
| Average | 119 | 121 | 10 | 17 | | 9.9 | 0.0 | 5.2 | 1.3 | 0.6 | |
| Total | 356 | 363 | 30 | 50 | 2 | 29.7 | 0.0 | 15.6 | 3.9 | 1.7 | 2 |
| 12-Mo Roll | 356 | 363 | | | | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 2 |
| Year Total | 356 | 363 | | | | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 2 |

CALPINE GREENLEAF 1

Yuba City, California

Unit B- Monthly Emissions & Operations Report

October - 2021

| Day | Gas Flow kscf | Heat Input mmBtu | Megawatt Hours | Water Injection gal | Water Injection On-Time | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time |
|------------|---------------|------------------|----------------|---------------------|-------------------------|----------|----------|----------|----------|----------|--------------|
| 01 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 02 | 24 | 25 | 2 | 6 | 0.2 | 1.9 | 0.0 | 0.7 | 0.3 | 0.1 | 0.4 |
| 03 | 96 | 98 | 8 | 14 | 0.5 | 7.6 | 0.0 | 2.8 | 1.1 | 0.3 | 0.6 |
| 04 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 05 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 06 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 07 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 08 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 09 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 10 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 11 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 12 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 13 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 14 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 15 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 16 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 17 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 18 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 19 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 20 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 21 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 22 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 23 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 24 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 25 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 26 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 27 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 28 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 29 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 30 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| 31 | Down | Down | Down | Down | 0.0 | Down | Down | Down | Down | Down | 0.0 |
| Day | Gas Flow kscf | Heat Input mmBtu | Megawatt Hours | Water Injection gal | Water Injection On-Time | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time |
| Average | 60 | 82 | 5 | 10 | | 4.8 | 0.0 | 1.8 | 0.7 | 0.2 | |
| Total | 120 | 123 | 10 | 20 | 1 | 9.5 | 0.0 | 3.5 | 1.4 | 0.4 | 1 |
| 12-Mo Roll | 120 | 123 | | | | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 1 |
| Year Total | 120 | 123 | | | | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 0.0 Tons | 1 |

Unit A- Monthly Emissions & Operations Report

21-Sep

| Day | Gas Flow k | Heat Input Megawatt | Water Inje | Water Inje | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time | |
|------------|------------|---------------------|------------|------------|----------|----------|----------|----------|----------|--------------|-----|
| 1 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 2 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 3 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 4 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 5 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 6 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 7 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 8 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 9 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 10 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 11 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 12 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 13 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 14 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 15 | 12 | 12 | 0 | 0 | 0.3 | 1 | 0 | 0.5 | 0.1 | 0.1 | 0.3 |
| 16 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 17 | 356 | 358 | 18 | 6989 | 4.2 | 29.4 | 0 | 15.4 | 3.9 | 1.8 | 4.2 |
| 18 | 617 | 620 | 52 | 4727 | 3.1 | 50.9 | 0 | 26.7 | 6.7 | 3.1 | 3.1 |
| 19 | 1518 | 1525 | 153 | 8729 | 5.4 | 125.1 | 0 | 65.6 | 16.7 | 7.6 | 5.4 |
| 20 | 1972 | 1981 | 196 | 11455 | 6.9 | 162.6 | 0 | 85.1 | 21.5 | 9.8 | 6.9 |
| 21 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 22 | 342 | 344 | 33 | 2784 | 1.7 | 28.2 | 0 | 14.8 | 3.7 | 1.7 | 1.7 |
| 23 | 148 | 149 | 11 | 1160 | 0.8 | 12.2 | 0 | 6.4 | 1.6 | 0.7 | 0.8 |
| 24 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 25 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 26 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 27 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 28 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 29 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 30 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| Average | 709 | 713 | 66 | 5121 | 58.5 | 0 | 30.6 | 7.7 | 3.5 | | |
| Total | 4965 | 4989 | 463 | 35844 | 22 | 409.4 | 0 | 214.5 | 54.2 | 24.8 | 22 |
| 12-Mo Rol | 4965 | 4989 | | | 0.2 Tons | 0.0 Tons | 0.1 Tons | 0.0 Tons | 0.0 Tons | | 22 |
| Year Total | 4965 | 4989 | | | 0.2 Tons | 0.0 Tons | 0.1 Tons | 0.0 Tons | 0.0 Tons | | 22 |

Unit B- Monthly Emissions & Operations Report

21-Sep

| Day | Gas Flow k | Heat Input Megawatt | Water Inje | Water Inje | NOx lbs | SO2 lbs | CO lbs | PM lbs | VOC lbs | Unit On-Time | |
|------------|------------|---------------------|------------|------------|----------|----------|----------|----------|----------|--------------|-----|
| 1 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 2 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 3 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 4 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 5 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 6 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 7 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 8 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 9 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 10 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 11 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 12 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 13 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 14 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 15 | 13 | 13 | 0 | 0 | 0.1 | 1 | 0 | 0.4 | 0.1 | 0 | 0.1 |
| 16 | 7 | 7 | 0 | 0 | 0.3 | 0.5 | 0 | 0.2 | 0.1 | 0 | 0.3 |
| 17 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 18 | 667 | 670 | 49 | 4292 | 2.6 | 52.3 | 0.2 | 19.4 | 7.3 | 0.8 | 2.6 |
| 19 | 1119 | 1124 | 111 | 6525 | 3.9 | 87.6 | 0.3 | 32.8 | 12.3 | 1.4 | 3.9 |
| 20 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 21 | 2591 | 2603 | 259 | 14529 | 8.5 | 203.2 | 0.7 | 75.6 | 28.5 | 3.2 | 8.5 |
| 22 | 342 | 344 | 33 | 2784 | 1.7 | 26.8 | 0 | 10 | 3.7 | 1 | 1.7 |
| 23 | 87 | 87 | 11 | 580 | 0.5 | 6.8 | 0 | 2.5 | 1 | 0.3 | 0.5 |
| 24 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 25 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 26 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 27 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 28 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 29 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| 30 | Down | Down | Down | Down | 0 Down | Down | Down | Down | Down | 0 | |
| Average | 689 | 693 | 66 | 4101 | | 54 | 0.2 | 20.1 | 7.6 | 1 | |
| Total | 4826 | 4848 | 463 | 28710 | 18 | 378.2 | 1.2 | 140.9 | 53 | 6.7 | 18 |
| 12-Mo Rol | 4826 | 4848 | | | 0.2 Tons | 0.0 Tons | 0.1 Tons | 0.0 Tons | 0.0 Tons | | 18 |
| Year Total | 4826 | 4848 | | | 0.2 Tons | 0.0 Tons | 0.1 Tons | 0.0 Tons | 0.0 Tons | | 18 |



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Christopher D. Brown, AICP
 Air Pollution Control Officer

Authority to Construct

ISSUED TO:

Calpine Greenleaf Holdings, Inc.
 Greenleaf 1 Project
 5087 South Township Road
 Yuba City, CA 95993

PERMIT NUMBER: 13005L

PROJECT LOCATION:

Greenleaf 1 Project
 5087 South Township Road
 Yuba City, CA 95993

VALID FROM:

09/10/2021 - 9/30/2022

09/13/2021

Christopher D. Brown, AICP
 Air Pollution Control Officer

Issue Date

PROCESS DESCRIPTION: COMBUSTION TURBINE GENERATORS #3 AND #4

EQUIPMENT

| No. | Equipment | Rating |
|-----|--|----------------|
| 1 | Combustion Turbine Generator (CTG) #3, Manufacturer: General Electric, Model: TM2500-G4; Serial # [TBD], Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating (HHV) 366.1 MMBtu/hr; Nominal MW Rating: 33.6 MW | 366.1 MMBtu/hr |
| 2 | Combustion Turbine Generator (CTG) #4, Manufacturer: General Electric, Model: TM2500-G4; Serial # [TBD], Natural Gas Fired, Simple Cycle with Single Annular Combustors with Water Injection, Heat Input Rating (HHV) 366.1 MMBtu/hr; Nominal MW Rating: 33.6 MW | 366.1 MMBtu/hr |
| 3 | Selective Catalytic Reduction (SCR) with Integrated Ammonia Injection System, Manufacturer: [TBD], Serial Number: [TBD] | -- |
| 4 | Carbon Monoxide (CO) Oxidation Catalyst, Manufacturer: [TBD], Serial Number: [TBD] | -- |
| 5 | Continuous Emissions Monitoring System (CEMS) [TBD] | -- |

TOTAL RATINGS – MMBtu/hr- 732.2.

CONDITIONS FOR COMMISSIONING

1. The commissioning period commences when all mechanical and electrical systems are installed and individual startup has been completed, or when a gas turbine is first fired, whichever comes first. The period ends when the plant has completed performance testing and is available for commercial operation.
2. Greenleaf 1 Project shall minimize emissions of the CTGs of carbon monoxide (CO) and nitrogen oxides (NOx) to the maximum extent possible during the commissioning periods.
3. The CTGs exhaust stack shall be designed and constructed such that it includes permanent provisions, consistent with the United States Environmental Protection Agency's (U.S. EPA) Method 1 design requirements, to allow the adequate collection of stack gas samples. Access ladders and/or stairs and platforms shall allow easy access to the sampling locations.
4. At the earliest feasible time, in accordance with the recommendations of the equipment manufacturer and construction contractor, the selective catalytic reduction (SCR) and carbon monoxide catalyst air pollution control equipment shall be installed, adjusted, and operated to minimize emissions of NOx, CO, and volatile organic compounds (VOCs) from each combustion turbine.
5. Greenleaf 1 Project shall submit a plan to the District prior to first firing the CTGs describing the procedures to be followed during the commissioning of the gas turbines. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the initial tuning of the combustors, the installation and operation of the required emission control systems, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the CTGs without abatement by their respective oxidation catalysts and/or SCR Systems.
6. During the commissioning period and after installation of the SCR and oxidation catalyst, Greenleaf 1 Project shall demonstrate compliance with Conditions 8, 9, and 10, through the use of properly operated and maintained continuous emission monitors and plant data monitoring recorders for the following parameters and emission concentrations:
 - a. firing hours
 - b. fuel flow rates
 - c. turbine water injection rates
 - d. stack gas nitrogen oxide emission concentrations
 - e. stack gas carbon monoxide emission concentrations
 - f. stack gas oxygen concentrations.

The monitored parameters shall be recorded at least once every 15 minutes (excluding normal calibration periods or when the monitored source is not in operation) for the CTGs. Greenleaf 1 Project shall use approved methods to calculate heat input rates, nitrogen dioxide mass emission rates, carbon monoxide mass emission rates, and NO_x and CO emission concentrations, summarized for each clock hour and each calendar day. Greenleaf 1 Project shall retain records on site for at least 5 years from the date of entry and make such records available to District personnel upon request.

7. Greenleaf 1 Project shall install, calibrate, and operate the District-approved continuous monitors specified in Condition 6 prior to first firing of the CTGs. After first firing of the turbines, Sutter Energy Center shall adjust the detection range of these continuous emission monitors as necessary to accurately measure the resulting range of CO and NO_x emission concentrations. The instruments shall operate at all times of operation of the CTGs including start-up, shutdown, upset, and malfunction, except as allowed by District Rule 10.3 Upset Conditions, Breakdown or Scheduled Maintenance. If necessary to comply with this requirement, Greenleaf 1 Project shall install dual-span monitors. The type, specifications, and location of these monitors shall be subject to District review and approval.
8. The total number of firing hours of each gas turbine without abatement of NO_x emissions by the SCR system and/or abatement of the CO emissions by the oxidation catalyst system shall not exceed 160 hours during the commissioning period. Such operation shall only be limited to such discrete commissioning activities that can only be properly executed without the air pollution control equipment. Upon completion of these activities, Greenleaf 1 Project shall provide written notice to the District and the unused balance of the 160 firing hours without abatement shall expire. The total operating days during commissioning shall not exceed 21 calendar days.
9. The total mass emissions of each regulated pollutant that are emitted by the CTGs during the commissioning period shall accrue towards the quarterly emission limits.
10. Within 60 days after start-up of each turbine, Greenleaf 1 Project shall conduct District approved source tests on the CTGs to determine compliance with the emission limitations. The source tests shall determine NO_x, CO, and VOC emissions during peak load firing conditions (100% load plus or minus 25%). The source test shall include a minimum of three compliance runs, with a minimum run time of 30 minutes. Before the execution of the source tests, Greenleaf 1 Project shall submit to the District a detailed source test plan designed to satisfy the requirements of this Part. The District will notify Greenleaf 1 Project of any necessary modifications to the plan; otherwise, the plan shall be deemed approved. Greenleaf 1 Project shall incorporate the District comments into the test plan. Greenleaf 1 Project shall notify the District prior to the planned source testing date. Greenleaf 1 Project shall submit the source test results for the CTGs to the District within 60 days of the source testing date.

OPERATING CONDITIONS

11. Greenleaf 1 Project shall fire the CTGs exclusively on CPUC-quality natural gas with a maximum sulfur content of 0.5 grains per 100 standard cubic feet. To demonstrate compliance with this limit, the operator of the CTGs shall possess a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying the total sulfur content. PG&E monthly sulfur data may be used provided that such data can be demonstrated to be representative of the gas delivered to Greenleaf 1 Project. Alternatively, the operator may choose to sample and analyze the gas from each supply source at least monthly to determine the sulfur content of the gas.
12. Greenleaf 1 Project shall not operate the units such that the heat input rate to each CTG exceeds 366.1 MMBtu (HHV) per hour.
13. Greenleaf 1 Project shall not operate the units such that the heat input rate to each CTG exceeds 73,220 MMBtu (HHV) per calendar quarter.
14. Greenleaf 1 Project shall not operate the units such that the heat input rate to each CTG exceeds 73,220 MMBtu (HHV) per calendar year.
15. The owner operator shall not operate the CTGs such that the hours of operation exceed 200 hours per calendar quarter, per turbine.
16. The owner operator shall not operate the CTG such that the hours of operation exceed 200 hours per year, per turbine.
17. Greenleaf 1 Project shall ensure that each CTG is abated by the properly operated and properly maintained SCR system and oxidation catalyst system whenever fuel is combusted at the source and that the corresponding SCR catalyst bed has reached its minimum operating temperature.
18. Greenleaf 1 Project shall install, maintain, and operate continuous plant monitors and a continuous emissions monitoring system (CEMS) during all hours of operation, including gas turbine startup and shutdown periods. The following parameters shall be monitored under this section:
 - a. Firing hours, turbine water injection rates, and fuel flow rates for the CTGs
 - b. Oxygen concentration, nitrogen oxides concentration, and carbon monoxide concentration at the exhaust point of the CTGs
 - c. Ammonia (NH₃) injection rate at the SCR system

Greenleaf 1 Project shall record the above parameters at least every 15 minutes (excluding normal calibration periods) and shall summarize all of the above parameters for each clock hour. Greenleaf 1 Project shall use the parameters measured above and District approved calculation methods to calculate the following CTG parameters

- d. Heat input rate

- e. The concentration of NO_x and CO, corrected to 15% O₂ (corrected), and the mass emission rates of NO_x and CO for the CTG
19. Greenleaf 1 Project shall submit design details for the SCR system, oxidation catalyst system, and continuous emissions monitoring system to the District at least 30 days prior to commencement of construction of these components.
20. Startup is defined as the period beginning with turbine light-off (firing) until the CTGs meets the concentration and mass emission limits in Condition 45. Shutdown is defined as the period beginning with initiation of the CTGs shutdown sequence and ending with cessation of fuel flow. Startup and shutdown durations shall not exceed 30 minutes. and 15 minutes, respectively, per occurrence.
21. Greenleaf 1 Project shall limit the total CTG startup events for each CTG to no more than 4 startups per day, 40 startups per calendar quarter, and 40 startups per calendar year.
22. Greenleaf 1 Project shall limit the total CTG shutdown events for each CTG to no more than 4 startups per day, 40 startups per calendar quarter, and 40 startups per calendar year.
23. Greenleaf 1 Project shall ensure that it complies with the requirements to hold SO₂ allowances in 40 CFR 72.9(c)(1).

REPORTING AND RECORDKEEPING

24. Greenleaf 1 Project shall notify the District by the close of the next business day of operating the CTGs for any reason, including, but not limited to: commissioning activities, maintenance and testing/tuning activities, emissions testing activities, operation of the turbine for the production of electrical power, etc.
25. Greenleaf 1 Project shall submit a CEMS QA/QC plan to the District for approval within 60 days of installation. Approval should also be required for any future changes to the plan.
26. Greenleaf 1 Project shall submit to the District information correlating the control system operating parameters to the associated NO_x, CO, PM₁₀, VOC and SO_x emissions. This information may be used by the Air Pollution Control Officer to determine compliance where there is no continuous emission monitoring system available or when the continuous emission monitoring system is not operating properly.
27. For each calendar day, Greenleaf 1 Project shall calculate and record the total firing hours, the average hourly fuel flow rates, turbine water injection rates, CTGs power production rates, and regulated pollutant concentration and emission rates. The data should be recorded as specified below:

- a. Heat input rate for every clock hour and the average hourly heat input rate for every rolling 3-hour period
 - b. The average NO_x mass emission rate (as NO₂), CO mass emission rate, and corrected NO_x and CO emission concentrations, for every clock hour.
 - c. On an hourly basis, the cumulative total NO_x mass emissions (as NO₂) and the cumulative total CO mass emissions, for each calendar day for all CTGs
 - d. For each calendar day, the average hourly heat input rates, corrected NO_x and CO emission concentrations, and NO_x and CO mass emission rates of the CTGs.
 - e. For each calendar month, the cumulative total NO_x mass emissions and cumulative total CO mass emissions, for each calendar quarter and the previous consecutive twelve-month period for all CTGs.
28. Greenleaf 1 Project shall calculate and record on a daily basis, the volatile organic compound (VOC) mass emissions, fine particulate matter (PM₁₀) mass emissions (including condensable particulate matter), and sulfur oxides (SO_x) mass emissions (as SO₂) from the CTGs... Greenleaf 1 Project shall use the actual heat input rates, actual gas turbine start-up times, actual gas turbine shutdown times, and District-approved emission factors developed pursuant to source testing to calculate these emissions. Greenleaf 1 Project shall present the calculated emissions in the following format:
- a. For each calendar day, VOC, PM₁₀, and SO_x emissions, summarized for each CTG.
 - b. On a monthly basis, the cumulative total VOC, PM₁₀, and SO_x mass emissions, for each calendar quarter and calendar year for all CTGs operated at Greenleaf 1 Project.
29. Greenleaf 1 Project shall comply with the continuous emission monitoring requirements of 40 CFR Part 60 and 40 CFR Part 75.
30. Greenleaf 1 Project shall submit all reports to the District as required by District Rules and Regulations.
31. All records which are required to be maintained by this permit shall be maintained for a period of five years and shall be made readily available for District inspection upon request. Results of continuous emissions monitoring shall be reduced according to the procedure established in 40 CFR, Part 51, Appendix P. paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the CARB, and the U.S. EPA.
32. Greenleaf 1 Project shall notify the District of any violations of these permit conditions. Notification shall be submitted in a timely manner, in accordance with all applicable District Rules and Regulations. Notwithstanding the notification and reporting requirements given in any District Rule or Regulation Greenleaf 1 Project shall submit written notification (email or facsimile is acceptable) to the District within 96 hours of the violation of any permit condition.

33. The following records shall be kept: occurrence, duration, and type of any startup, shutdown, or malfunction; performance testing, evaluations, calibrations, checks, adjustments, any period during which a continuous monitoring system or monitoring device was inoperative, maintenance of any continuous emission monitor emission measurements, total daily and rolling twelve month average hours of operation, hourly quantity of fuel used, and gross three hour average operating load.
34. Greenleaf 1 Project shall notify the District of any breakdown condition as soon as reasonably possible, but no later than 48 hours after its detection.
35. The District shall be notified in writing within 15 calendar days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations.
36. Calibration Gas Audits (CGAs) of the continuous emissions monitors shall be conducted quarterly, except during quarters in which relative accuracy and total accuracy testing is performed, in accordance with U.S. EPA guidelines. Audit reports shall be submitted along with quarterly compliance reports to the District.
37. Greenleaf 1 Project shall comply with the applicable requirements for quality assurance testing and maintenance of the continuous emissions monitoring equipment in accordance with the procedures and guidance specified in 40 CFR Part 60, Appendix F.
38. Greenleaf 1 Project shall submit a written report to the District for each calendar quarter, within 30 days of the end of the quarter, including: time intervals, data and magnitude of excess emissions, nature and cause of excess (if known), corrective actions taken and preventive measures adopted; averaging period used for data reporting shall correspond to the averaging period for each respective emission standard; applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; and a negative declaration when no excess emissions occurred.
39. Sutter Energy Center shall provide the District with a written emission statement showing actual emissions of VOCs and NO_x. Pursuant to District Rule 4.8, Sutter Energy Center shall submit this emission statement on a form or in a format specified by the District. The statement shall contain the following information:
 - a. Actual emissions of VOCs and NO_x, in tons per year, for the calendar year prior to the preparation of the emission statement; and
 - b. Information regarding seasonal or diurnal peaks in the emission of affected pollutants; and

- c. Certification by a responsible official of Sutter Energy Center that the information contained in the emission statement is accurate to the best knowledge of the individual certifying the emission statement.
40. Greenleaf 1 Project shall maintain an Operating Compliance Plan for the new CTGs which will assure that the air pollution control equipment will be properly maintained and that necessary operational procedures are in place to continuously achieve compliance with this permit. The Operating Compliance Plan shall include a description of the process monitoring program and devices to be used.
- a. The plan shall specify the frequency of surveillance checks that will be made of process monitoring devices and indicators to determine continued operation within permit limits. A record or log of individual surveillance checks shall be kept to document performance of the surveillance.
 - b. The plan shall include the frequency and methods of calibrating the process monitoring devices.
 - c. The plan shall specify for each emission control device:
 - i. Operation and maintenance procedures that will demonstrate continuous operation of the emission control device during emission producing operations; and
 - ii. Records that must be kept to document the performance of required periodic maintenance procedures.
 - d. The plan shall identify what records will be kept to comply with air pollution control requirements and regulations and the specific format of the records. These records shall include at least the Recordkeeping information required by this permit. The information must include emission monitoring evaluations, calibration checks and adjustments, and maintenance performed on such monitoring systems.
 - e. The plan shall be submitted to the District no later than 30 days after startup of the CTGs. The plan must be implemented upon approval by the District Air Pollution Control Officer.
 - f. The plan shall be resubmitted to the District for approval upon any changes to compliance procedures described in the plan, or upon the request of the District.

PERFORMANCE TESTING

41. On an annual basis, and within twelve (12) months of the previous source test, Greenleaf 1 Project shall conduct District approved source testing on the CTG to determine compliance with the emission limitations specified in Conditions 46. The source tests shall determine concentrations and mass emissions of NO_x, CO, VOC, and NH₃. Fuel-based emission factors (lbs/MMbtu) for VOCs, SO_x (as SO₂) and PM₁₀ shall be established using the annual source test data. The source tests shall be performed while the CTG is operating at peak load firing

conditions (100% load plus or minus 25%). The source tests shall include a minimum of three compliance runs, with a minimum run time of 30 minutes each.

42. Greenleaf 1 Project shall test for (as a minimum): water content, stack gas flow rate, oxygen concentration, NO_x concentration and mass emissions (as NO₂), CO concentration and mass emissions, VOC concentration and mass emissions, fuel sulfur content and from it SO_x mass emissions (as SO₂), and total fine particulate matter emissions (PM₁₀), including condensable particulate matter. All testing shall be performed using U.S. EPA approved test methods. Alternative test methods can be used with explicit approval of the District. Greenleaf 1 Project shall submit the source test results to the District within 60 days of conducting the tests.
43. Before the execution of the source tests, Greenleaf 1 Project shall submit to the District a source test protocol detailing the proposed scope and source test methods. The protocol shall be submitted to the District no later than thirty (30) days prior to the scheduled test date. The District will notify Greenleaf 1 Project of any necessary modifications to the plan; otherwise, the plan shall be deemed approved. Sutter Energy Center shall incorporate the District comments into the test plan.
44. On an annual basis, Greenleaf 1 Project shall verify the accuracy of the CEMS by conducting a relative accuracy test audit (RATA). The RATA shall satisfy the applicable performance specification requirements in Appendix B of 40 CFR Part 60 as well as the quality assurance and quality control procedures of 40 CFR Part 75. Greenleaf 1 Project shall submit the RATA results to the District within 60 days of conducting the tests.

EMISSION LIMITATIONS

45. Greenleaf 1 Project shall ensure that the CTGs complies with emission limits established in (a) through (g) below. The limits in (a) through (e) do not apply during a gas turbine startup or shutdown, as defined in Condition 20.
 - a. NO_x mass emissions (calculated as NO₂) at the exhaust of the CTGs shall not exceed 2.71 pounds per hour. (Basis: BACT for NO_x)
 - b. The NO_x emission concentration at the exhaust of the CTGs shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O₂, averaged over any 1-hour period. (Basis: BACT for NO_x)
 - c. CO mass emissions at the exhaust of the CTG shall not exceed 2.64 pounds per hour. (Basis: BACT for CO)
 - d. The CO emission concentration at the exhaust of the CTG shall not exceed 4.0 ppmv, on a dry basis, corrected to 15% O₂ averaged over any rolling 3-hour period. (Basis: BACT for CO)

- e. VOC mass emissions (calculated as CH₄) at the exhaust of the CTG shall not exceed 2.3 pounds per hour. (Basis: BACT for VOC)
 - f. PM₁₀ mass emissions at the exhaust of the CTG shall not exceed 4.0 pounds per hour.
 - g. SO_x mass emissions (calculated as SO₂) at the exhaust of the CTG shall not exceed 0.20 pounds per hour.
46. Greenleaf 1 Project shall ensure that the mass emissions at the exhaust of the CTG during startup and shutdown do not exceed the limits established below.
- a. NO_x (calculated as NO₂)
 - i. 3.10 pounds per startup.
 - ii. 3.40 pounds per shutdown.
 - b. CO
 - i. 19.40 pounds per startup.
 - ii. 21.60 pounds per shutdown.
 - c. VOC (calculated as CH₄)
 - i. 0.80 pounds of VOC per startup.
 - ii. 0.90 pounds of VOC per shutdown.
47. Greenleaf 1 Project shall ensure that the quarterly emissions from the CTGs, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM₁₀, and SO_x shall be demonstrated by using the heat input-based emission factors established in Condition 41 multiplied by the CTG's quarterly fuel consumption or heat input.
- a. NO_x mass emissions (calculated as NO₂) at the exhaust of the CTGs shall not exceed 1,344 pounds per quarter.
 - b. CO mass emissions at the exhaust of the CTGs shall not exceed 2,696 pounds per quarter.
 - c. VOC mass emissions (calculated as CH₄) at the exhaust of the CTGs shall not exceed 988 pounds per quarter.
 - d. PM₁₀ mass emissions at the exhaust of the CTGs shall not exceed 2,120 pounds per quarter.
 - e. SO_x mass emissions (calculated as SO₂) at the exhaust of the CTG shall not exceed 96 pounds per quarter.
48. Greenleaf 1 Project shall ensure that the annual emissions from the CTGs, including emissions generated during gas turbine startups, shutdowns, and malfunctions, do not exceed the limits established in (a) through (e) below. Compliance with mass emissions of VOCs, PM₁₀, and SO_x shall be demonstrated by using the heat input-based emission factors established in Condition 41 multiplied by the CTG's annual fuel consumption or heat input.

- a. NO_x mass emissions (calculated as NO₂) at the exhaust of the CTGs shall not exceed 0.67 tons per year.
 - b. CO mass emissions at the exhaust of the CTGs shall not exceed 1.34 tons per year.
 - c. VOC mass emissions (calculated as CH₄) at the exhaust of the CTGs shall not exceed 0.5 tons per year.
 - d. PM₁₀ mass emissions at the exhaust of the CTGs shall not exceed 0.82 tons per year.
 - e. SO_x mass emissions (calculated as SO₂) at the exhaust of the CTGs shall not exceed 0.05 tons per year.
49. No emissions are permitted, from any source, which are a nuisance per HSC 41700 Public Nuisance.
50. Unless otherwise specified by this permit, the permittee shall not discharge into the atmosphere from any source whatsoever any contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one hour that is:
- a. As dark or darker in shade as that designated as No. 2 (or 40% opacity) on the Ringelmann Chart, as published by the United States Bureau of Mines as determined by U. S. EPA Method 9; or
 - b. Of such opacity as to obscure an observer's view to a degree to or greater than does smoke described in subsection (a).
51. The Greenleaf 1 Project shall not emit into the atmosphere, from any source particulate matter in excess of 0.3 grains per cubic foot of gas at standard conditions. When the source involves a combustion process the permittee must calculate the concentration to 12 percent carbon dioxide (CO₂). [District Rule 3.2.]
52. The Greenleaf 1 Project shall not emit into the atmosphere from any single source emissions whatsoever any sulfur oxides in excess of 0.2 percent by volume (2,000 ppm) collectively calculated as sulfur dioxide (SO₂). [District Rule 3.10.]
53. Ammonia emission concentrations at the exhaust of the CTGs shall not exceed 10 ppmv, on a dry basis, corrected to 15% O₂. This ammonia emission concentration shall be verified by the continuous recording of the ammonia injection rate to the SCR system. The correlation between the gas turbine heat input rates, the turbine water injection rates, the SCR system ammonia injection rates, and corresponding ammonia emission concentration at the CTGs exhaust shall be determined during the performance testing. This correlation shall be used to determine ongoing compliance with the ammonia slip limit.

TITLE V CONDITION

54. Greenleaf 1 Project shall file a complete application for a Significant Modification to the existing Sutter Energy Center Title V permit pursuant to 10.3, Federal Operating Permit Program, by no later than 12 months after commencing operation of the CTG.

GENERAL CONDITIONS

55. Acceptance of Conditions

The FRAQMD deems acceptance of this Permit to Operate as acceptance of all conditions as specified. Failure to comply with any condition of this permit or the FRAQMD Rules and Regulations shall be grounds for revocation of this permit. [FRAQMD Rule 4.5]

56. Right to Amend Permit

The FRAQMD reserves the right to amend this permit, if the need arises, in order to ensure the compliance of this facility, and/or to abate any public nuisance. [FRAQMD Rule 4.5]

57. Permit Not Transferrable

This permit is not transferable from either one location to another, from one piece of equipment to another or from one person to another without prior FRAQMD approval. In the event a new owner assumes the control of this facility, the permittee and new owner shall notify the FRAQMD in writing within ten (10) days of the change of ownership. [FRAQMD Rule 4.15]

58. Operation in Accordance with Permit Submittal

The permittee shall operate the equipment in compliance with all data and specifications submitted with the application under which this permit was issued. If any provision of this permit is found to be invalid, such finding shall not affect the remaining provisions of this permit. [FRAQMD Rule 4.5]

59. Payment of Fees

The permittee shall be responsible for the payment of annual fees. In the event of facility closure or change in ownership or responsibility, the new owner shall be responsible for any outstanding and/or current fees. [FRAQMD Rule 7.6]

60. Right of Entry

The "Right of Entry", as delineated by the California Health and Safety Code Section 41510 of Division 26, shall apply at all times. The permittee shall allow

FRAQMD staff access to the plant site and pertinent records at all reasonable times for the purposes of inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emission records, training, and otherwise conducting all necessary functions related to this permit. [CA Health and Safety Code Section 41510]

61. Permit Condition Familiarity

The operating staff of this facility shall be advised of and be familiar with all the conditions contained in this permit. [FRAQMD Rule 4.5]

62. Maintain Equipment

The permittee shall maintain the physical integrity of all processes and air pollution control equipment at regular intervals to insure minimal discharge of emissions. The permittee shall not operate the basic equipment without the control equipment attached and operating as designed. The permittee shall follow the equipment manufacturers' recommendations diligently. [FRAQMD Rule 4.5]

63. Emission Source Tests

The FRAQMD may conduct or require emission source tests on any source at the discretion of the FRAQMD. The permittee shall conduct all tests and calculate all results in accordance with test procedures approved by the FRAQMD. [FRAQMD Rule 9.3]

64. Permit Required for Additions and Alterations

The permittee shall report any additions, deletions, or alterations of the subject equipment, including a change in the method of operation or a change in the location, to the FRAQMD. Such alterations may require a new Authority to Construct permit. [FRAQMD Rule 4.1]

65. Copy of Permit Maintained at Facility

The permittee shall maintain this permit or a legible copy at the site. The permit shall be made available on demand to any authorized person. [FRAQMD Rule 4.14]

66. Fugitive Dust

The permittee shall take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation. Reasonable precautions shall include, but are not limited to:

- a. The use, where possible, of water or chemicals for controlling dust during the demolition of existing buildings or structures, construction operations, construction of roadways, or the clearing of land;
 - b. The application of asphalt, California approved oils and emulsion substances, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts; or
 - c. Any other means submitted in writing and approved by the FRAQMD.
[FRAQMD Rule 3.16]
67. Surface Preparation and Clean-up
- a. This facility is subject to all applicable requirements under District Rule 3.14 – Surface Preparation and Clean-up.
 - b. Net surface preparation and clean-up solvent usage at this facility shall not exceed 20 gallons per calendar year.
 - c. The permittee shall keep current Safety Data Sheets for all VOC-containing materials (solvents, coatings, inks, resins) used at this facility and make them available to District personnel upon request.
 - d. The permittee shall store all VOC-containing materials, whether in their form for intended use or as a waste or used product, including items such as cloth or paper laden with VOC-containing materials, in non-absorbent, non-leaking containers which shall be kept closed at all times, except when in-use, and disposed of in a manner to prevent the evaporation of VOCs into the atmosphere.
[FRAQMD Rule 3.14]
68. Natural Gas-Fired Water Heaters, Small Boilers, and Process Heaters
- The permittee shall not install at this facility any natural gas-fired boiler, steam generator, process heater, or water heater with a rated heat input capacity of greater than or equal to 75,000 British Thermal Units per hour (Btu/hr) and less than 1 million Btu/hr unless the unit is certified to meet the emissions requirements established in FRAQMD Rule 3.23.
[FRAQMD Rule 3.23]
69. Air Toxic Hot Spots
- a. This facility is subject to Division 26, Part 6, Chapter 1 Section 44300 et. seq. of the California Health and Safety Code (Air Toxics “Hot Spots” Information and Assessment Act of 1987). The owner or operator is responsible for complying with all requirements and deadlines set forth in the regulation.
 - b. The FRAQMD reserves the right to require the facility to evaluate the health risk, in accordance with the AB2588 Air Toxics “Hot Spots” Emission Inventory Criteria and Guidelines Regulation, if there is a significant change in population, emissions, or emission unit(s) site location, or if new health data becomes available.
[CA Health and Safety Code Section 44300 et. seq.]
70. Portable Engines and Portable Equipment Units
- a. The operation of portable engines and portable equipment units at the facility shall not require modification of this permit provided the permittee

verify that each source is registered with the California Air Resources Board or permitted by the FRAQMD.

- i. This provision shall not apply if the engine or equipment unit is operated in such a way that it supplements the stationary source operation.
 - ii. For the purpose of this permit, "Equipment Unit" means equipment that emits PM10 over and above that emitted from an associated engine.
- b. Portable engines and portable equipment units registered by the California Air Resources Board shall operate pursuant to the conditions of the registration. This permit does not allow operation of the source, such that the operation invalidates the registration.
 - c. Portable engines and portable equipment units permitted by the FRAQMD shall operate pursuant to the conditions of the permit.
 - d. If a portable equipment unit will be at the facility for more than five days, the permittee shall notify the district in writing within two working days of commencing operations. The notification shall include:
 - i. The registration number of the equipment unit;
 - ii. The name and phone number of the responsible official; and
 - iii. The estimated time that the equipment unit will be located at the facility.
 - e. If the permittee utilizes a portable equipment unit, the permittee shall comply with the following recordkeeping and reporting provisions within 30 days after the end of each calendar quarter:
 - i. The dates in which the equipment unit was operated at the facility;
 - ii. The type and quantity of materials processed by the equipment unit; and
 - iii. The emissions for the project, calculated in accordance with the equipment unit's registration.

[Basis: FRAQMD Rule 4.5]

71. Performance Test Requirements: If the District finds that additional performance tests are required to determine compliance with District Rules and Regulations and/or conditions of this Authority to Construct, reasonable written notice shall be provided to Greenleaf 1 Project. The performance tests shall be subject to the following:
 - a. At least thirty (30) days prior to the actual testing, a written test plan shall be submitted to the District detailing the sampling methods, analytical methods or detection principles to be used. The prior written approval of the District is required for the use of alternate test methods.
 - b. The District may require, upon reasonable written notice, the conduct by Greenleaf 1 Project of such emissions testing or analysis as may be deemed necessary by the District to demonstrate compliance with District Rules and/or state or federal regulations and the limiting conditions of this permit.
 - c. Testing shall be conducted in accordance with 40 CFR 60, Appendix A, Methods, or equivalent methods approved by the State of California Air Resources Board (CARB) by reference in Title 17 of the California Administrative Code, or other methods specified by Greenleaf 1 Project

and approved in writing by the District. Independent testing contractors and analytical laboratories shall be CARB certified for the test or analysis conducted. Particulate matter testing, if requested, shall include both filterable and condensed particulate matter (e.g. Method 5 modified to include impinger catch).

d. A report of the testing shall be submitted to the District no later than sixty (60) days after the source test is performed.

72. The applicant/permittee has an obligation to defend and indemnify the District against third party challenges.

Greenleaf One
 Yuba City, CA
Facility- Monthly On-Time Report
 September - 2021

| Day | Unit A On-Time | Unit B On-Time |
|------------|-------------------|-------------------|
| 01 | 0.0 | 0.0 |
| 02 | 0.0 | 0.0 |
| 03 | 0.0 | 0.0 |
| 04 | 0.0 | 0.0 |
| 05 | 0.0 | 0.0 |
| 06 | 0.0 | 0.0 |
| 07 | 0.0 | 0.0 |
| 08 | 0.0 | 0.0 |
| 09 | 0.0 | 0.0 |
| 10 | 0.0 | 0.0 |
| 11 | 0.0 | 0.0 |
| 12 | 0.0 | 0.0 |
| 13 | 0.0 | 0.0 |
| 14 | 0.0 | 0.0 |
| 15 | 0.3 | 0.1 |
| 16 | 0.0 | 0.3 |
| 17 | 4.2 | 0.0 |
| 18 | 3.1 | 2.6 |
| 19 | 5.4 | 3.9 |
| 20 | 6.9 | 0.0 |
| 21 | 0.0 | 8.5 |
| 22 | 1.7 | 1.7 |
| 23 | 0.8 | 0.5 |
| 24 | 0.0 | 0.0 |
| 25 | 0.0 | 0.0 |
| 26 | 0.0 | 0.0 |
| 27 | 0.0 | 0.0 |
| 28 | 0.0 | 0.0 |
| 29 | 0.0 | 0.0 |
| 30 | 0.0 | 0.0 |
| Total | 22 | 18 |
| 12-Mo Roll | 22 | 18 |
| Year Total | 22 | 18 |

Greenleaf One
 Yuba City, CA
Facility- Monthly On-Time Report
 October - 2021

| Day | Unit A On-Time | Unit B On-Time |
|------------|-------------------|-------------------|
| 01 | 0.0 | 0.0 |
| 02 | 0.0 | 0.0 |
| 03 | 0.0 | 0.0 |
| 04 | 0.0 | 0.0 |
| 05 | 0.0 | 0.0 |
| 06 | 0.0 | 0.0 |
| 07 | 0.0 | 0.0 |
| 08 | 0.0 | 0.0 |
| 09 | 0.0 | 0.0 |
| 10 | 0.0 | 0.0 |
| 11 | 0.0 | 0.0 |
| 12 | 0.0 | 0.0 |
| 13 | 0.0 | 0.0 |
| 14 | 0.0 | 0.0 |
| 15 | 0.0 | 0.0 |
| 16 | 0.0 | 0.0 |
| 17 | 0.0 | 0.0 |
| 18 | 0.0 | 0.0 |
| 19 | 0.0 | 0.0 |
| 20 | 0.0 | 0.0 |
| 21 | 0.0 | 0.0 |
| 22 | 0.0 | 0.0 |
| 23 | 0.0 | 0.0 |
| 24 | 0.0 | 0.0 |
| 25 | 0.0 | 0.0 |
| 26 | 0.0 | 0.0 |
| 27 | 0.0 | 0.0 |
| 28 | 0.0 | 0.0 |
| 29 | 0.0 | 0.0 |
| 30 | 0.0 | 0.0 |
| 31 | 0.0 | 0.0 |
| Total | 0 | 0 |
| 12-Mo Roll | 22 | 18 |
| Year Total | 22 | 18 |