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CGS15-L-002
January 16, 2015

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Reference: Colusa Generating Station

Subject: Colusa Generating Station (06-AFC-9)
Condition of Certification AQ-08 – Submittal of Final Source Test Report.

Dear Eric:

Attached is the 2015 Final Source Test Report for the Colusa Generating Station, it is being submitted within 60 days of the completion of source testing as required by AQ-08 of the Final Commission Decision . If you have any questions regarding this submittal, please contact Charles Price at (530) 934-9007.

Sincerely,

1/16/15

Ed Warner
Senior Plant Manager

cc: File No. 3.6.3.1
C. Price, PG&E
S. Gassner, PG&E

TEST REPORT FOR EMMISIONS COMPLIANCE AND RATA PERFORMANCE TESTING AT THE COLUSA GENERATING STATION

PREPARED FOR:

COLUSA GENERATING STATION
4780 DIRKS ROAD
MAXWELL, CALIFORNIA 95955

FOR SUBMITTAL TO:

COLUSA COUNTY AIR POLLUTION CONTROL DISTRICT
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JOHN PETERSON

JANUARY 15, 2015

REPORT NUMBER: **R3112412**

Delta
Air Quality Services, Incorporated

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REPORT REVIEW AND CERTIFICATION

I certify that all work performed in the preparation and production of this report was performed by me or under my supervision and that all data presented is authentic.

John S. Peterson — Date: 1/15/15

John S. Peterson
Project Manager

I certify that I have also reviewed this report, both in form and content, and that all data, calculations, and presentations are authentic, accurate, and complete.

John S. Peterson — Date: 1/15/15

John S. Peterson
Project Manager

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1.0 INTRODUCTION

Delta was contracted by Pacific Gas & Electric (PG&E) to conduct emissions performance testing and a Relative Accuracy Test Audit (RATA) on two GE 7FA gas turbines serving the Colusa Generating Station (Colusa) facility. Delta conducted testing to comply with the Colusa County Air Pollution Control District (CCAPCD) permit to operate (PTO) number 21006-259. The Delta test team consisted of John Peterson, Shannon Scrugham, Rik Dupont, and Ray Madrigal.

The test program included two distinct elements; 1) emissions Compliance tests, and 2) CEM RATA tests.

Emissions Compliance tests at 50% (minimum) and 75% (mid): Triplicate tests for the following emissions were performed:

- Oxides of Nitrogen (NO_x) concentration ppmv @ 15% O_2, dry, lb/hr;
- Ammonia concentration ppmv @ 15% O_2, dry;

Emissions Compliance tests at 100% without duct burner (Base): Triplicate tests for the following emissions were performed:

- Oxides of Nitrogen (NO_x) concentration ppmv @ 15% O_2, dry, lb/hr;
- Carbon Monoxide (CO) concentration ppmv @ 15% O_2, dry, lb/hr;
- Ammonia concentration ppmv @ 15% O_2, dry;
- Volatile Organic Compounds (VOC) concentration ppmv @ 15% O_2, lb/hr,

Emissions Compliance tests at 100% with duct burner (maximum): Triplicate tests for the following emissions were performed:

- Oxides of Nitrogen (NO_x) concentration ppmv @ 15% O_2, dry, lb/hr;
- Carbon Monoxide (CO) concentration ppmv @ 15% O_2, dry, lb/hr;
- Ammonia concentration ppmv @ 15% O_2, dry;
- Volatile Organic Compounds (VOC) concentration ppmv @ 15% O_2, lb/hr,
- Formaldehyde lb/MMscf of fuel

CEM RATA tests:

- Oxides of Nitrogen (NO_x),
  - Concentration Relative Accuracy (ppmv @ 15% O_2, dry),
  - Mass Emission Rate Relative Accuracy (lb/hr)
  - Emission Factor (lb/MMBtu) Relative Accuracy,

- Oxygen (O_2)
  - Concentration Relative Accuracy (% O_2),
- Carbon Monoxide (CO)
  - Concentration Relative Accuracy (ppmv @ 15% O_2, dry),
  - Mass Emission Rate Relative Accuracy (lb/hr)

EPA Methods 3A, 7E, 10 and SDCAPCD Method 100 were used for the O_2, NO_x, and CO tests respectively. The high NO_2 procedures described in SDAPCD Method 100 were used during the compliance runs to determine if the units are "High NO_2 Emitters." EPA Methods 3A, 7E and 10 were used for the RATA runs.

Testing was conducted on November 17 through 20, 2014.

Tables 1-1 through 1-6 present the compliance test and RATA results for each stack gas constituent audited. Detailed results for the individual test runs are presented in tables 4-1 through 4-22. Testing procedures, a description of sample locations, and a summary of quality assurance procedures are also presented in this report.

TABLE 1-1
SUMMARY OF AVERAGE COMPLIANCE RESULTS
MINIMUM LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION
NOVEMBER 17 AND 19, 2014

Parameter	Unit 1	Unit 2	Limit
Unit Data:			
Gas Turbine Gross MW	105.2	105.4	--
Stack Gas Data:			
O_2, % volume dry	14.01	13.84	--
CO_2, % volume dry	4.00	4.08	--
Stack Gas Flow Rate, dscfm	550,551	543,595	--
Oxides of Nitrogen (NO_X) Emissions:			
ppm	0.93	1.32	--
ppm @ 15% O_2	0.80	1.10	**2.0**
lb/hr	3.68	5.12	**15.3**
Ammonia (NH_3):			
ppm	1.61	0.88	--
ppm @ 15% O_2	1.38	0.74	**5.0**
lb/hr	2.35	1.27	**14.2**

Note: Results of individual test runs are presented in the tables in Section 4.0.

TABLE 1-2
SUMMARY OF AVERAGE COMPLIANCE RESULTS
MID LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION
NOVEMBER 17 AND 19, 2014

Parameter	Unit 1	Unit 2	Limit
Unit Data:			
Gas Turbine Gross MW	140.4	140.4	--
Stack Gas Data:			
O_2, % volume dry	13.95	13.83	--
CO_2, % volume dry	4.01	4.08	--
Stack Gas Flow Rate, dscfm	660,366	656,569	--
Oxides of Nitrogen (NO_X) Emissions:			
ppm	1.14	1.49	--
ppm @ 15% O_2	0.97	1.24	**2.0**
lb/hr	5.42	7.01	**15.3**
Ammonia (NH_3):			
ppm	1.65	0.94	--
ppm @ 15% O_2	1.40	0.79	**5.0**
lb/hr	2.88	1.64	**14.2**

Note: Results of individual test runs are presented in the tables in Section 4.0.

TABLE 1-3
SUMMARY OF AVERAGE COMPLIANCE RESULTS
BASE LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION
NOVEMBER 17 AND 19, 2014

Parameter	Unit 1	Unit 2	Limit
Unit Data:			
Gas Turbine Gross MW	177.7	178.2	--
Stack Gas Data:			
O_2, % volume dry	13.75	13.68	--
CO_2, % volume dry	4.13	4.15	--
Stack Gas Flow Rate, dscfm	771,815	777,194	--
Oxides of Nitrogen (NO_X) Emissions:			
ppm	1.31	1.50	--
ppm @ 15% O_2	1.08	1.23	**2.0**
lb/hr	7.20	8.31	**15.3**
Carbon Monoxide (CO) Emissions:			
ppm	0.19	0.18	--
ppm @ 15% O_2	0.16	0.15	**3.0**
lb/hr	0.65	0.62	**14.0**
Volatile Organic Compounds (VOC) Emissions:			
ppm	0.10	0.14	--
ppm @ 15% O_2	0.08	0.11	**1.38**
lb/hr as CH_4	0.18	0.27	**3.4**
Ammonia (NH_3):			
ppm	2.00	1.47	--
ppm @ 15% O_2	1.65	1.20	**5.0**
lb/hr	4.08	3.03	**14.2**

Note: Results of individual test runs are presented in the tables in Section 4.0.

TABLE 1-4
SUMMARY OF AVERAGE COMPLIANCE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION
NOVEMBER 18 AND 20, 2014

Parameter	Unit 1	Unit 2	Limit
Unit Data:			
Gas Turbine Gross MW	177.2	176.8	--
Stack Gas Data:			
O_2, % volume dry	11.83	11.48	--
CO_2, % volume dry	5.21	5.28	--
Stack Gas Flow Rate, dscfm	746,304	756,555	--
Oxides of Nitrogen (NO_X) Emissions:			
ppm	1.76	1.81	--
ppm @ 15% O_2	1.14	1.13	**2.0**
lb/hr	9.27	9.68	**20.7**
lb/MMBtu	0.004	0.004	--
Carbon Monoxide (CO) Emissions:			
ppm	0.75	0.32	--
ppm @ 15% O_2	0.49	0.20	**3.0**
lb/hr	2.44	1.04	**18.9**
lb/MMBtu	0.0011	0.0004	--
Volatile Organic Compounds (VOC) Emissions:			
ppm	0.17	0.10	--
ppm @ 15% O_2	0.11	0.06	**2.0**
lb/hr as CH_4	0.31	0.18	**7.2**
Ammonia (NH_3):			
ppm	2.04	1.64	--
ppm @ 15% O_2	1.33	1.03	**5.0**
lb/hr	4.03	3.29	**19.2**

Note: Results of individual test runs are presented in the tables in Section 4.0.

TABLE 1-5
SUMMARY OF AVERAGE FORMALDEHYDE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION
NOVEMBER 18 AND 20, 2014

Parameter	Unit 1	Unit 2	Limit
Unit Data:			
Gas Turbine Gross MW	172.1	176.8	--
Total Fuel Flow, hscfh	21,674.3	22,415.9	--
Stack Gas Data:			
O_2, % volume dry	11.6	11.6	--
Stack Gas Flow Rate, dscfm	734,740	756,881	--
Formaldehyde Emissions:			
ppb	16.7	59.6	--
ppb @ 15% O_2	10.6	37.8	--
lb/hr	0.0579	0.2141	--
lb/MMscf of fuel	0.0267	0.0955	**0.917**

Note: Results of individual test runs are presented in the tables in Section 4.0.

TABLE 1-6
SUMMARY OF RATA RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION
NOVEMBER 18 AND 20, 2014

Parameter	Relative Accuracy	
	Turbine Unit #1	Turbine Unit #2
Nitrogen Oxides (NO_X)		
ppm @ 15% O_2	PASS	PASS
lb/hr as NO_2	PASS	PASS
lb/MMBtu	ANNUAL	ANNUAL
Carbon Monoxide (CO)		
ppm @ 15% O_2	PASS	PASS
lb/hr	PASS	PASS
Oxygen (O_2)		
% volume dry	PASS	PASS

Note: See Tables 4-6 through 4-11 and 4-17 through 4-22 for the detailed numerical results of the relative accuracy tests. The designation "annual" indicates that the analyzer met the criteria for the incentive for annual RATA described in 40CFR Part 75.

1.1 TEST PROGRAM ORGANIZATION

The following persons can be contacted regarding this test program.

Delta Air Quality Services Representative	PG&E Representative
John Peterson 1845 N. Case Street Orange, California 92865 Phone: (714) 279-6777 Fax: (714) 279-6781	Mr. Charles Price 4780 Dirks Road Maxwell, California 95955 Phone: (530) 934-9007

Colusa County Air Pollution Control District
100 Sunrise Blvd, Suite A-3 Maxwell, California 95955

2.0 UNIT DESCRIPTIONS

2.1 GAS TURBINE

The Colusa facility is a 664 MW combined cycle natural gas fired power generation facility located at 4780 Dirks Road, Maxwell, CA 95955. The facility consists of two 172 MW GE 7FA combustion Turbines and one 320 MW steam turbine. Each combustion turbine is equipped with a duct burner and heat recovery steam generator (HRSG).

The combustion turbines and duct burners fire only on natural gas. NO_x emissions are controlled by a selective catalytic reduction (SCR) system using aqueous ammonia as the reducing agent. A non-selective catalytic reduction unit controls CO emissions.

The applicable emission limits for each condition are shown in Table 2-1 below.

TABLE 2-1
COLUSA GENERATING STATION
EMISSION LIMITS

Parameter	Units	Concentration Limit	Limits without duct burner firing	Limits with duct burner firing
NO_x	ppmv @ 15% O_2	2.0	-	-
	lb/hr	-	15.3	20.7
CO	ppmv @ 15% O_2	3.0	-	-
	lb/hr	-	14.0	18.9
VOC	ppmv @ 15% O_2	-	1.38	2.0
	lb/hr	-	3.4	7.2
Ammonia	ppmv @ 15% O_2	5.0	-	-
	lb/hr		14.2	19.2
Formaldehyde	lb/MMscf		0.917	0.917

The plant is equipped with a Continuous Emissions Monitoring System, (CEMS) and data acquisition and handling system, (DAHS) that provides measurements and data acquisition of O_2, CO, and NO_x concentrations. It is an extractive system with a heated line extending from the probe to the sample conditioning unit.

3.0 TEST DESCRIPTION

3.1 TEST CONDITIONS

During the emissions Compliance testing, the Combustion Turbines were operating at four distinct loads while firing natural gas:

- Minimum (50% Load),
- Mid (75% Load),
- Base (100% Load without duct burners firing),
- Maximum (100% Load with duct burners firing)

The emissions performance tests for the NO_x and CO RATA runs were conducted with the duct burners firing at a normal firing rate as specified in 40 CFR. Selected process parameters for Turbines 1 and 2 were recorded during each RATA test run and included in Tables 3-1 and 3-2.

TABLE 3-1
COLUSA GENERATING STATION
TURBINE UNIT 1
PLANT PROCESS DATA

Parameter/run:	1	2	3	4	5	6	7	8	9
Date:	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014
Start Time:	8:15	9:05	9:55	10:52	11:23	11:54	12:24	12:54	13:26
End time:	8:53	9:43	10:33	11:15	11:46	12:17	12:47	13:18	13:50
Total Gas Flow, hscfh	21,706	21,706	21,706	21,815	21,771	21,719	21,708	21,720	21,715
Total heat input, MMBtu/hr	2,247.2	2,247.2	21,706.0	2,258.5	2,254.0	2,248.6	2,247.4	2,248.7	2,248.1
NH_3 Flow, lb/hr	175.5	175.5	175.5	183.9	185.6	185.5	184.7	184.9	185.7
Unit Load, net MW	177.2	177.2	177.2	174.0	173.0	172.5	172.3	171.9	171.7

TABLE 3-2
COLUSA GENERATING STATION
TURBINE UNIT 2
PLANT PROCESS DATA

Parameter/run:	1	2	3	4	5	6	7	8	9
Date:	11/20/2014	11/20/2014	11/20/2014	11/20/2014	11/20/2014	11/20/2014	11/20/2014	11/20/2014	11/20/2014
Start Time:	7:55	8:45	9:35	10:32	11:05	11:35	12:05	12:49	13:23
End time:	8:33	9:23	10:13	10:55	11:28	11:58	12:28	13:12	13:45
Total Gas Flow, hscfh	22,410	22,396	22,413	22,417	22,426	22,427	22,434	22,420	22,423
Total heat input, MMBtu/hr	2,320.1	2,318.6	2,320.4	2,320.8	2,321.8	2,321.8	2,322.5	2,321.1	2,321.4
NH_3 Flow, lb/hr	164.3	162.9	166.0	159.9	161.8	160.7	156.9	158.4	164.1
Unit Load, net MW	177.3	176.7	176.4	176.9	177.0	176.9	176.9	177.0	176.7

3.2 SAMPLE LOCATIONS

The reference method measurements were taken from four sample ports located on the exhaust stacks. The stacks inside diameters are 228 inches. The sample ports are located 1.6 diameters upstream of the nearest flow disturbance and 3.2 diameters downstream of the nearest flow disturbance.

Gaseous stratification was investigated as part of the 1st test run on each unit. The NO_x, CO, and O_2 showed each turbine was >10% stratified. A 16 point traverse (8 points on each of 2 diameters) was conducted during the runs and was used for the compliance runs. A 3 point long line was conducted for the remaining RATA test runs.

3.3 TEST PROCEDURES

The test procedures used are presented in Table 3-3

TABLE 3-3
COLUSA GENERATING STATION
GAS TURBINES UNIT 1 & 2
TEST MATRIX

Parameter	CT-1&2 at Min Load	CT-1&2 at Mid Load	CT-1&2 at Base Load	CT-1&2 at Max Load	Method(s)	Comments
NO_x Compliance	X	X	X	X	EPA 7E, SDAPCD 100	3 x 30 minute runs
CO Compliance			X	X	EPA 10	3 x 30 minute runs
VOC Compliance			X	X	EPA 18, TO-12	3 x 20 minute runs
Ammonia Compliance	X	X	X	X	BAAQMD ST-1B	3 x 30 minute runs
Formaldehyde					CARB 430,	3 x 120 minute runs
NQ_x RATA (ppmC, lb/MMBtu)			X	X	EPA 7E – PS2, Pt-75	3 or more additional runs at either condition
O_2 RATA (%,dry)			X	X	EPA – PS3, Pt-75	3 or more additional runs at either condition
CO RATA (ppmC)			X	X	EPA 10 – PS4A	3 or more additional runs at either condition

3.3.1 Emissions Performance Tests

Detailed descriptions of standard test procedures are included in Appendix A.

3.3.1.1 Continuous Gaseous Measurements

NO_x, O_2, and CO were measured according to EPA 7E, 3A, 10 and SDCAPCD reference methods respectively using Delta's continuous emissions monitoring system (CEMS). The sampling system employed a heated line and moisture removal trap to conserve any NO_2 that might be present in the flue gas. Evaluation of the applicability of "High NO_2" procedures was performed to determine if it is a "High NO_2 Emitter". The total NO_x on each unit was found to be > 5% NO_2. The CEMS system and test methods are described in detail in Appendix A.

3.3.1.2 Moisture

Stack gas moisture content was measured using EPA Method 4. Moisture was determined from the ammonia test runs.

A sample was extracted from the flue gas, moisture is condensed and collected, and the dry gas volume is metered. The amount moisture collected was determined

gravimetrically or volumetrically and the moisture was determined by the ratio of moisture collected to the total volume (moisture and dry gas) sampled.

Following the test, the impingers were weighed and the moisture collected equals the difference between the final and initial weights. The moisture content of the flue gas is calculated from the measured moisture volume and dry gas volume.

3.3.1.3 Stack Volumetric Flow Rate

Stack flow rates for the mass emissions were calculated stoichiometrically from the facility CEMS fuel flow by EPA 19.

3.3.1.4 Ammonia

The ammonia concentration in the stack gases was sampled using BAAQMD ST-1B and analyzed by Ion Selective Electrode (ISE) following BAAQMD Lab Method 1A. The moisture was determined in conjunction with the ammonia sampling and sample recovery. The sampling system is described in Appendix A.

3.3.1.5 Volatile Organic Compounds

The sampling and analysis techniques of EPA Method TO-12 were used because the emission limit for VOC is 2 ppm. This requires lower detection limits than are typical with the standard approaches to Method 18.

Stack gas samples were collected in specially-prepared evacuated stainless-steel (SUMMA) canisters. Sample gas was drawn through a probe and connecting line of Teflon tubing through a calibrated flow controller into each canister. The sample flow rate was controlled so that a partial vacuum (i.e. at least 5 inches Hg) remained in the canisters to prevent condensation within the sample. Triplicate 30-minute sampling runs were conducted on each unit.

The canisters were transported to the laboratory for analysis within 14 days. The canisters were prepared and analyzed by AA&C Laboratory of Ventura, California."

3.3.1.6 Formaldehyde

Triplicate samples for formaldehyde were collected from a single point near the center of the stack by CARB 430.

The exhaust gas was drawn non-isokinetically through a probe and teflon line into a series of DNPH filled midget impingers. A low-level dry gas meter fitted with a calibrated orifice that restricts the flow rate to 0.5 l/min was used to measure the total volume of exhaust gas sampled. The line was rinsed with a portion of the first impinger catch. Each vial was analyzed for formaldehyde by HPLC.

The following QA/QC procedures were also conducted:

- Screening of DNPH reagent;
- Three field blanks;
- One field spike;
- One trip blank;
- One trip spike;
- Laboratory blanks;
- Laboratory matrix spike

The samples were analyzed by AAC in Ventura, CA.

3.3.1.7 Reference Method Tests, Relative Accuracy Test Audit

Nine sets of reference method measurements were performed with the sample times synchronized with the CEMS. NO_x, O_2, and CO were measured according to EPA reference methods 3A, 7E, and 10 using Delta's continuous emissions monitoring system (CEMS). The sampling system employed a heated line and moisture removal trap to conserve any NO_2 that might have been present in the flue gas. The CEMS system and test methods are described in detail in Appendix A. Table 3-4 below shows the pass/fail criteria for the audit.

TABLE 3-4
RATA PASS/FAIL CRITERIA

Gas	Units	Pass Criteria	Alternate Pass Criteria	Incentive Criteria
O_2	% O_2	1% (RM)[4]	N/A	N/A
NO_x	ppm @ 15% O_2	20% (RM)[1]	10% (Std)[2]	N/A
NO_x	lb/hr	20% (RM)[1]	10% (Std)[2]	N/A
NO_x	lb/MMBtu	10% (RM)	0.02 lb/MMBtu[3]	0.015 lb/MMBtu[2]
CO	ppm @ 15% O_2	10% (RM)[1]	5 ppm (ABS Diff.)[3]	N/A
CO	lb/hr	10% (RM)[1]	5 ppm (ABS Diff.)[3]	N/A

1 Using reference method average in denominator of RATA calculation
2 Where emissions are less than 0.2 lb/MMBtu where emissions are less than 0.2 lb/MMBtu.
3 Absolute difference between the reference method and the CEMS.

The first 3 test runs consisted of a full 16-point traverse at the sample location. Sampling for the remaining RATA runs was conducted using a 3 point traverse. Stratification was not less than 10% so the long line (16.7, 50.0 and 83.3 % of dia. plus the coupling length) was used for the remainder of the tests.

Each set of tests consisted of independent measurements of NO_x, CO, and O_2 concentrations and calculation of the corrected concentrations and emission rates (ppmC, lb/hr and lb/MMBtu) using EPA Method 19. The calculated lb/hr values were

generated using the stack flow rate from the CEMS. CEMS stack flow calculated from fuel flow. The CEMS data from the same intervals was compared to the reference method results and relative accuracy was calculated according to the following equation:

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

where:

RA = relative accuracy

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

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

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

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

t_{value} = statistical function of number of tests
Std. Dev. = sample standard deviation of the difference between RM and CEMS
n = number of valid tests

In addition to determining the relative accuracy of the CEMS, the test data was also used to determine the NO_x Bias Adjustment Factor (BAF) which was applied to the CEMS data. The mean difference (RM - CEMS) was equal to the confidence coefficient. The BAF for each unit was 1.000.

4.0 TEST RESULTS

This section presents the results of the compliance and RATA emissions testing conducted at the Colusa Generating Station Gas Turbine Unit 1 and Gas Turbine Unit 2.

The test methods used are described in Appendix A and quality assurance information in Appendix B. All supporting data sheets are included in Appendix C, calculations in Appendix D, plant data in Appendix E, laboratory reports in Appendix F, Delta data logger and instrument strip charts in Appendix G, chain of custody records are included in Appendix H, and AETB EPA Part 75 Information in Appendix I.

4.1 GAS TURBINE UNIT 1 RESULTS

Gaseous emissions, ammonia, VOC and Formaldehyde results are presented in Tables 4-1 through 4-5. NO_x, CO, VOC, ammonia and formaldehyde emission results were below established permit limits. The stack NO and NO_x were measured simultaneously and compared to each other to determine if this unit was a high NO_2 source, as defined by SDAPCD method 100. This unit was found to be greater than 5% NO_2, classifying it as a High NO_2 source. Nine runs were conducted for the RATA testing. All nine runs were used to calculate the RATA. All nine runs can be found in Appendix D. The individual RATA results are presented in Tables 4-6 through 4-11. O_2, NO_x, and CO emission results were below their individual performance specification requirements.

TABLE 4-1
SUMMARY OF CT1 COMPLIANCE RESULTS
MINIMUM LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Min-1	Run 2-Min-1	Run 3-Min-1	Average	Limit
Date:	11/17/2014	11/17/2014	11/17/2014		--
Start Time:	11:40	12:40	13:29		--
Stop Time:	12:20	13:18	14:07		--
Unit Data:					
Gas Turbine Gross MW	105.4	105.1	105.2	105.2	--
Stack Gas Data:					
O_2, % volume dry	14.05	13.99	14.00	14.01	--
CO_2, % volume dry	3.99	4.00	4.00	4.00	--
Stack Gas Moisture, % volume	6.67	7.25	6.57	6.83	--
Stack Gas Flow Rate, dscfm	546,175	552,657	552,821	550,551	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	0.93	0.93	0.94	0.93	--
ppm @ 15% O_2	0.80	0.79	0.81	0.80	**2.0**
lb/hr	3.64	3.66	3.73	3.68	**15.3**
Ammonia (NH_3):					
ppm	1.72	1.60	1.52	1.61	--
ppm @ 15% O_2	1.48	1.37	1.30	1.38	**5.0**
lb/hr	2.48	2.34	2.23	2.35	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-2
SUMMARY OF CT1 COMPLIANCE RESULTS
MID LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Mid-1	Run 2-Mid-1	Run 3-Mid-1	Average	Limit
Date:	11/17/2014	11/17/2014	11/17/2014		--
Start Time:	14:25	15:15	16:02		--
Stop Time:	15:03	15:53	16:40		--
Unit Data:					
Gas Turbine Gross MW	140.5	140.4	140.2	140.4	--
Stack Gas Data:					
O_2, % volume dry	13.94	13.96	13.96	13.95	--
CO_2, % volume dry	4.00	4.01	4.01	4.01	--
Stack Gas Moisture, % volume	7.30	7.13	7.49	7.31	--
Stack Gas Flow Rate, dscfm	662,307	659,831	658,961	660,366	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.14	1.15	1.15	1.14	--
ppm @ 15% O_2	0.97	0.97	0.98	0.97	**2.0**
lb/hr	5.41	5.42	5.42	5.42	**15.3**
Ammonia (NH_3):					
ppm	1.87	1.83	1.24	1.65	--
ppm @ 15% O_2	1.58	1.56	1.06	1.40	**5.0**
lb/hr	3.27	3.20	2.17	2.88	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-3
SUMMARY OF CT1 COMPLIANCE RESULTS
BASE LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Base-1	Run 2-Base-1	Run 3-Base-1	Average	Limit
Date:	11/17/2014	11/17/2014	11/17/2014		--
Start Time:	16:56	17:48	18:35		--
Stop Time:	17:38	18:26	19:13		--
Unit Data:					
Gas Turbine Gross MW	177.5	177.6	178.0	177.7	--
Stack Gas Data:					
O_2, % volume dry	13.73	13.77	13.76	13.75	--
CO_2, % volume dry	4.13	4.12	4.14	4.13	--
Stack Gas Moisture, % volume	8.463	8.554	8.724	8.580	--
Stack Gas Flow Rate, dscfm	771,344	771,562	772,539	771,815	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.33	1.31	1.30	1.31	--
ppm @ 15% O_2	1.09	1.08	1.07	1.08	**2.0**
lb/hr	7.27	7.17	7.14	7.20	**15.3**
Carbon Monoxide (CO) Emissions:					
ppm	0.19	0.19	0.19	0.19	--
ppm @ 15% O_2	0.16	0.16	0.16	0.16	**3.0**
lb/hr	0.66	0.65	0.63	0.65	**14.0**
Volatile Organic Compounds (VOC):					
ppb	111	107	70	96	--
ppm	0.11	0.11	0.07	0.10	--
ppm @ 15% O_2	0.09	0.09	0.06	0.08	**1.38**
lb/hr	0.21	0.21	0.13	0.18	**3.4**
Ammonia (NH_3):					
ppm	1.82	2.10	2.08	2.00	--
ppm @ 15% O_2	1.50	1.74	1.71	1.65	**5.0**
lb/hr	3.71	4.29	4.24	4.08	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-4
SUMMARY OF CT1 COMPLIANCE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION

Parameter	Run 1-Max-1	Run 2-Max-1	Run 3-Max-1	Average	Limit
Date:	11/18/2014	11/18/2014	11/18/2014		--
Start Time:	8:15	9:05	9:55		--
Stop Time:	8:53	9:43	10:33		--
Unit Data:					
Gas Turbine Gross MW	177.2	177.2	177.2		--
Stack Gas Data:					
O_2, % volume dry	11.84	11.86	11.79	11.83	--
CO_2, % volume dry	5.21	5.19	5.22	5.21	--
Stack Gas Moisture, % volume	9.59	8.30	9.12	9.00	--
Stack Gas Flow Rate, dscfm	740,876	749,017	749,017	746,304	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.76	1.75	1.75	1.76	--
ppm @ 15% O_2	1.15	1.14	1.14	1.14	**2.0**
lb/hr	9.25	9.25	9.29	9.27	**15.3**
lb/MMBtu	0.004	0.004	0.004	0.004	
Carbon Monoxide (CO) Emissions:					
ppm	0.76	0.76	0.73	0.75	--
ppm @ 15% O_2	0.50	0.50	0.47	0.49	**3.0**
lb/hr	2.45	2.50	2.37	2.44	**14.0**
lb/MMBtu	0.0011	0.0011	0.0011	0.0011	
Volatile Organic Compounds (VOC):					
ppb	115	242	144	167	--
ppm	0.12	0.24	0.14	0.17	--
ppm @ 15% O_2	0.07	0.16	0.09	0.11	**1.38**
lb/hr	0.21	0.45	0.27	0.31	**3.4**
Ammonia (NH_3):					
ppm	2.06	2.08	1.98	2.04	--
ppm @ 15% O_2	1.34	1.35	1.28	1.33	**5.0**
lb/hr	4.04	4.12	3.92	4.03	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-5
SUMMARY OF CT1 FORMALDEHYDE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION

Parameter	1-Form-1	2-Form-1	3-Form-1	Average	Limit
Date:	11/18/14	11/18/14	11/18/14		--
Start Time:	10:40	14:03	16:15		--
Stop Time:	12:40	16:03	18:15		--
Unit Data:					
Gas Turbine Gross MW	173.2	171.1	172.1	172.1	--
Stack Gas Data:					
O_2, % volume dry	11.6	11.6	11.6	11.6	--
Fuel Flow Rate, hscfh	21,760.2	21,627.0	21,635.8	21,674.3	
Stack Gas Flow Rate, dscfm	734,740	730,242	730,539	731,840	--
Formaldehyde Emissions:					
ppb	3.2	23.7	23.2	16.7	--
ppb @ 15% O_2	2.0	15.0	14.7	10.6	--
lb/hr	0.0111	0.0821	0.0803	0.0579	--
lb/MMscf	0.0051	0.0380	0.0371	0.0267	**0.917**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-6
RELATIVE ACCURACY
O_2 CONCENTRATION

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Start Time	End Time	RM O_2, %	CEMS O_2, %	Difference O_2, %	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	11.84	11.70	-0.14	1
2	11/18/2014	9:05	9:43	11.86	11.80	-0.06	1
3	11/18/2014	9:55	10:33	11.79	11.80	0.01	1
4	11/18/2014	10:52	11:15	11.71	11.60	-0.11	1
5	11/18/2014	11:23	11:46	11.67	11.60	-0.07	1
6	11/18/2014	11:54	12:17	11.65	11.60	-0.05	1
7	11/18/2014	12:24	12:47	11.76	11.60	-0.16	1
8	11/18/2014	12:54	13:18	11.70	11.60	-0.10	1
9	11/18/2014	13:26	13:50	11.67	11.60	-0.07	1
Average				11.74	11.66	-0.08	

Ref. Method Average:	11.74	% O_2
CEMS Average:	11.66	% O_2
Number of Tests:	9	
Relative Accuracy:	0.08	%
Test Condition:	174.1	MW

* Relative accuracy calculated as the absolute difference between the reference method and the CEMS.

TABLE 4-7
RELATIVE ACCURACY AND BIAS CALCULATION
NO_x PPMC

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x ppmC	CEMS NO_x ppmC	Difference NO_x ppmC	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	1.14	1.00	0.14	1
2	11/18/2014	9:05	9:43	1.12	1.00	0.12	1
3	11/18/2014	9:55	10:33	1.12	1.00	0.12	1
4	11/18/2014	10:52	11:15	1.09	1.00	0.09	1
5	11/18/2014	11:23	11:46	1.10	1.00	0.10	1
6	11/18/2014	11:54	12:17	1.07	1.00	0.07	1
7	11/18/2014	12:24	12:47	1.15	1.00	0.15	1
8	11/18/2014	12:54	13:18	1.07	1.00	0.07	1
9	11/18/2014	13:26	13:50	1.10	1.00	0.10	1
Average				1.11	1.00	0.11	

Ref. Method Average:	1.11	ppmC
Average Difference:	0.11	ppmC
Number of Tests:	9	
Standard Deviation:	0.028	ppmC
t Value:	2.306	
Confidence Coefficient:	0.022	ppmC
Relative Accuracy:	11.55	% RM
Test Condition:	174.1	MW

TABLE 4-8
RELATIVE ACCURACY AND BIAS CALCULATION
NO_x LB/HR

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x lb/hr	CEMS NO_x lb/hr	Difference NO_x lb/hr	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	9.253	8.20	1.05	1
2	11/18/2014	9:05	9:43	9.249	8.50	0.75	1
3	11/18/2014	9:55	10:33	9.294	8.20	1.09	1
4	11/18/2014	10:52	11:15	8.965	8.20	0.77	1
5	11/18/2014	11:23	11:46	9.051	8.10	0.95	1
6	11/18/2014	11:54	12:17	8.780	8.20	0.58	1
7	11/18/2014	12:24	12:47	9.333	8.10	1.23	1
8	11/18/2014	12:54	13:18	8.767	8.10	0.67	1
9	11/18/2014	13:26	13:50	9.038	8.20	0.84	1
Average				9.08	8.20	0.88	

Ref. Method Average:	9.08	lb/hr
Average Difference:	0.88	lb/hr
Number of Tests:	9	
Standard Deviation:	0.22	lb/hr
t Value:	2.306	
Confidence Coefficient:	0.17	lb/hr
Relative Accuracy:	11.53	% RM
Test Condition:	174.1	MW

TABLE 4-9
RELATIVE ACCURACY CALCULATION
NO_x LB/MMBTU

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x lb/MMBtu	CEMS NO_x lb/MMBtu	Difference NO_x lb/MMBtu	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	0.004	0.004	0.000	1
2	11/18/2014	9:05	9:43	0.004	0.004	0.000	1
3	11/18/2014	9:55	10:33	0.004	0.004	0.000	1
4	11/18/2014	10:52	11:15	0.004	0.004	0.000	1
5	11/18/2014	11:23	11:46	0.004	0.004	0.000	1
6	11/18/2014	11:54	12:17	0.004	0.004	0.000	1
7	11/18/2014	12:24	12:47	0.004	0.004	0.000	1
8	11/18/2014	12:54	13:18	0.004	0.004	0.000	1
9	11/18/2014	13:26	13:50	0.004	0.004	0.000	1
Average				0.004	0.004	0.000	

Ref. Method Average:	0.004	lb/MMBtu
Average Difference:	0.000	lb/MMBtu
Number of Tests:	9	
Standard Deviation:	0.000	lb/MMBtu
t Value:	2.306	
Confidence Coefficient:	0.000	lb/MMBtu
Relative Accuracy:	0.00	% RM
Absolute difference:	0.000	lb/MMBtu
Bias Adjustment Factor:	1.000	
Test Condition:	174.1	MW

(1) Since abs(d) > CC, the system does not pass the bias test
RA Limit = 10% or absolute difference of 0.02 lb/MMBtu (0.015 lb/MMBtu to make incentive)

TABLE 4-10
RELATIVE ACCURACY CALCULATION
CO PPMC

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM CO ppmC	CEMS CO ppmC	Difference CO ppmC	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	0.495	0.200	0.295	1
2	11/18/2014	9:05	9:43	0.499	0.200	0.299	1
3	11/18/2014	9:55	10:33	0.471	0.200	0.271	1
4	11/18/2014	10:52	11:15	0.430	0.100	0.330	1
5	11/18/2014	11:23	11:46	0.413	0.100	0.313	1
6	11/18/2014	11:54	12:17	0.402	0.100	0.302	1
7	11/18/2014	12:24	12:47	0.410	0.100	0.310	1
8	11/18/2014	12:54	13:18	0.408	0.100	0.308	1
9	11/18/2014	13:26	13:50	0.404	0.100	0.304	1
Average				0.437	0.133	0.304	

Ref. Method Average:	0.44	ppmc
Average Difference:	0.30	ppmc
Number of Tests:	9	
Standard Deviation:	0.016	ppmc
t Value:	2.306	
Confidence Coefficient:	0.01	ppmc
Relative Accuracy:	72.27	% RM
Absolute Difference:	0.304	<5ppm Diff.
Test Condition:	174.1	MW

TABLE 4-11
RELATIVE ACCURACY CALCULATION
CO LB/HR

Station: PG&E Colusa
Unit: GT Unit 1

Date: 11/18/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM CO lb/hr	CEMS CO lb/hr	Difference CO lb/hr	Valid Run (1=yes, 0=no)
1	11/18/2014	8:15	8:53	2.45	1.00	1.45	1
2	11/18/2014	9:05	9:43	2.50	1.00	1.50	1
3	11/18/2014	9:55	10:33	2.37	1.00	1.37	1
4	11/18/2014	10:52	11:15	2.15	0.60	1.55	1
5	11/18/2014	11:23	11:46	2.07	0.50	1.57	1
6	11/18/2014	11:54	12:17	2.02	0.50	1.52	1
7	11/18/2014	12:24	12:47	2.03	0.60	1.43	1
8	11/18/2014	12:54	13:18	2.03	0.50	1.53	1
9	11/18/2014	13:26	13:50	2.02	0.40	1.62	1
Average				2.18	0.68	1.50	

Ref. Method Average:	2.18	lb/hr
Average Difference:	1.50	lb/hr
Number of Tests:	9	
Standard Deviation:	0.076	lb/hr
t Value:	2.306	
Confidence Coefficient:	0.058	lb/hr
Relative Accuracy:	71.62	% RM
Absolute Difference:	1.50	<5ppm Abs Diff.
Test Condition:	174.1	MW

4.2 GAS TURBINE UNIT 2 RESULTS

Gaseous emissions, ammonia, VOC and formaldehyde results are presented in Tables 4-12 through 4-16. NO_x, CO, VOC, ammonia and formaldehyde emission results were below established permit limits. The stack NO and NO_x were measured simultaneously and compared to each other to determine if this unit was a high NO_2 source, as defined by SDAPCD method 100. This unit was found to be greater than 5% NO_2, classifying it as a High NO_2 source. Nine runs were conducted for the RATA testing. All nine runs were used to calculate the RATA. All nine runs can be found in Appendix D. The individual RATA results are presented in Tables 4-17 through 4-22. O_2, NO_x, and CO emission results were below their individual performance specification requirements.

TABLE 4-12
SUMMARY OF CT2 COMPLIANCE RESULTS
MINIMUM LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Min-2	Run 2-Min-2	Run 3-Min-2	Average	Limit
Date:	11/19/2014	11/19/2014	11/19/2014		--
Start Time:	7:52	8:42	9:29		--
Stop Time:	8:32	9:20	10:07		--
Unit Data:					
Gas Turbine Gross MW	105.1	105.4	105.8	105.4	--
Stack Gas Data:					
O_2, % volume dry	13.85	13.83	13.83	13.84	--
CO_2, % volume dry	4.08	4.08	4.08	4.08	--
Stack Gas Moisture, % volume	9.08	8.50	8.17	8.58	--
Stack Gas Flow Rate, dscfm	542,383	543,551	544,851	543,595	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.31	1.31	1.32	1.32	--
ppm @ 15% O_2	1.10	1.09	1.10	1.10	**2.0**
lb/hr	5.11	5.10	5.15	5.12	**15.3**
Ammonia (NH_3):					
ppm	1.03	0.93	0.69	0.88	--
ppm @ 15% O_2	0.86	0.77	0.58	0.74	**5.0**
lb/hr	1.48	1.33	1.00	1.27	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-13
SUMMARY OF CT2 COMPLIANCE RESULTS
MID LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Mid-2	Run 2-Mid-2	Run 3-Mid-2	Average	Limit
Date:	11/19/2014	11/19/2014	11/19/2014		--
Start Time:	10:25	11:12	11:58		--
Stop Time:	11:03	11:50	12:36		--
Unit Data:					
Gas Turbine Gross MW	140.5	140.2	140.4	140.4	--
Stack Gas Data:					
O_2, % volume dry	13.83	13.83	13.82	13.83	--
CO_2, % volume dry	4.08	4.08	4.08	4.08	--
Stack Gas Moisture, % volume	8.70	8.17	8.57	8.48	--
Stack Gas Flow Rate, dscfm	657,154	656,026	656,526	656,569	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.52	1.50	1.45	1.49	--
ppm @ 15% O_2	1.27	1.25	1.21	1.24	**2.0**
lb/hr	7.16	7.04	6.83	7.01	**15.3**
Ammonia (NH_3):					
ppm	1.23	0.79	0.81	0.94	--
ppm @ 15% O_2	1.03	0.66	0.68	0.79	**5.0**
lb/hr	2.14	1.37	1.41	1.64	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-14
SUMMARY OF CT2 COMPLIANCE RESULTS
BASE LOAD (DUCT BURNERS OFF)
COLUSA GENERATING STATION

Parameter	Run 1-Base-2	Run 2-Base-2	Run 3-Base-2	Average	Limit
Date:	11/19/2014	11/19/2014	11/19/2014		--
Start Time:	12:55	13:44	14:36		--
Stop Time:	13:33	14:24	15:14		--
Unit Data:					
Gas Turbine Gross MW	178.4	178.2	178.0	178.2	--
Stack Gas Data:					
O_2, % volume dry	13.66	13.69	13.68	13.68	--
CO_2, % volume dry	4.15	4.16	4.16	4.15	--
Stack Gas Moisture, % volume	8.61	8.61	9.44	8.89	--
Stack Gas Flow Rate, dscfm	778,152	777,241	776,190	777,194	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.45	1.52	1.54	1.50	--
ppm @ 15% O_2	1.18	1.25	1.26	1.23	**2.0**
lb/hr	8.00	8.41	8.51	8.31	**15.3**
Carbon Monoxide (CO) Emissions:					
ppm	0.19	0.18	0.18	0.18	--
ppm @ 15% O_2	0.15	0.15	0.15	0.15	**3.0**
lb/hr	0.64	0.61	0.61	0.62	**14.0**
Volatile Organic Compounds (VOC):					
ppb	41.9	313.0	62.3	139.1	--
ppm	0.04	0.31	0.06	0.14	--
ppm @ 15% O_2	0.03	0.26	0.05	0.11	**1.38**
lb/hr	0.08	0.61	0.12	0.27	**3.4**
Ammonia (NH_3):					
ppm	1.62	1.43	1.37	1.47	--
ppm @ 15% O_2	1.32	1.17	1.12	1.20	**5.0**
lb/hr	3.34	2.94	2.82	3.03	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-15
SUMMARY OF CT2 COMPLIANCE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION

Parameter	Run 1-Max-2	Run 2-Max-2	Run 3-Max-2	Average	Limit
Date:	11/20/2014	11/20/2014	11/20/2014		--
Start Time:	7:55	8:45	9:35		--
Stop Time:	8:33	9:23	10:13		--
Unit Data:					
Gas Turbine Gross MW	177.3	176.7	176.4	176.8	--
Stack Gas Data:					
O_2, % volume dry	11.43	11.37	11.65	11.48	--
CO_2, % volume dry	5.24	5.26	5.33	5.28	--
Stack Gas Moisture, % volume	9.71	10.79	10.34	10.28	--
Stack Gas Flow Rate, dscfm	756,674	756,197	756,795	756,555	--
Oxides of Nitrogen (NO_X) Emissions:					
ppm	1.83	1.82	1.77	1.81	--
ppm @ 15% O_2	1.14	1.12	1.13	1.13	**2.0**
lb/hr	9.81	9.72	9.51	9.68	**15.3**
lb/MMBtu	0.004	0.004	0.004	0.004	
Carbon Monoxide (CO) Emissions:					
ppm	0.33	0.32	0.30	0.32	--
ppm @ 15% O_2	0.20	0.20	0.19	0.20	**3.0**
lb/hr	1.08	1.04	1.00	1.04	**14.0**
lb/MMBtu	0.0005	0.0004	0.0004	0.0004	
Volatile Organic Compounds (VOC):					
ppb	61.7	73.9	156.0	97.2	--
ppm	0.06	0.07	0.16	0.10	--
ppm @ 15% O_2	0.04	0.05	0.10	0.06	**1.38**
lb/hr	0.12	0.14	0.29	0.18	**3.4**
Ammonia (NH_3):					
ppm	1.59	1.66	1.67	1.64	--
ppm @ 15% O_2	0.99	1.03	1.07	1.03	**5.0**
lb/hr	3.18	3.33	3.35	3.29	**14.2**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-16
SUMMARY OF CT2 FORMALDEHYDE RESULTS
MAXIMUM LOAD (DUCT BURNERS ON)
COLUSA GENERATING STATION

Parameter	1-Form-2	2-Form-2	3-Form-2	Average	Limit
Date:	11/20/2014	11/20/2014	11/20/2014		--
Start Time:	7:55	10:00	12:05		--
Stop Time:	9:55	12:00	14:05		--
Unit Data:					
Gas Turbine Gross MW	176.8	176.9	176.8	176.8	--
Stack Gas Data:					
O_2, % volume dry	11.6	11.6	11.6	11.6	--
Fuel Flow Rate, hscfh	22,407.4	22,414.1	22,426.3	22,415.9	
Stack Gas Flow Rate, dscfm	756,593	756,819	757,231	756,881	--
Formaldehyde Emissions:					
ppb	19.7	139.0	20.1	59.6	--
ppb @ 15% O_2	12.5	88.2	12.7	37.8	--
lb/hr	0.0707	0.4996	0.0721	0.2141	--
lb/MMscf	0.0316	0.2229	0.0322	0.0955	**0.917**

Note: Mass Emissions are calculated from the measured stack gas flow rates.

TABLE 4-17
RELATIVE ACCURACY
O_2 CONCENTRATION

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Start Time	End Time	RM O_2, %	CEMS O_2, %	Difference O_2, %	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	11.43	11.60	0.17	1
2	11/20/2014	8:45	9:23	11.37	11.60	0.23	1
3	11/20/2014	9:35	10:13	11.65	11.60	-0.05	1
4	11/20/2014	10:32	10:55	11.71	11.60	-0.11	1
5	11/20/2014	11:05	11:28	11.71	11.60	-0.11	1
6	11/20/2014	11:35	11:58	11.71	11.60	-0.11	1
7	11/20/2014	12:05	12:28	11.72	11.60	-0.12	1
8	11/20/2014	12:49	13:12	11.71	11.60	-0.11	1
9	11/20/2014	13:23	13:45	11.90	11.60	-0.30	1
Average				11.66	11.60	-0.06	

Ref. Method Average:	11.66	% O_2
CEMS Average:	11.60	% O_2
Number of Tests:	9	
Relative Accuracy:	0.06	%
Test Condition:	176.9	MW

* Relative accuracy calculated as the absolute difference between the reference method and the CEMS.

TABLE 4-18
RELATIVE ACCURACY AND BIAS CALCULATION
NO_x PPMC

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x ppmC	CEMS NO_x ppmC	Difference NO_x ppmC	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	1.13	1.10	0.03	1
2	11/20/2014	8:45	9:23	1.11	1.10	0.01	1
3	11/20/2014	9:35	10:13	1.12	1.00	0.12	1
4	11/20/2014	10:32	10:55	1.17	1.00	0.17	1
5	11/20/2014	11:05	11:28	1.16	1.10	0.06	1
6	11/20/2014	11:35	11:58	1.17	1.10	0.07	1
7	11/20/2014	12:05	12:28	1.18	1.00	0.18	1
8	11/20/2014	12:49	13:12	1.19	1.10	0.09	1
9	11/20/2014	13:23	13:45	1.13	1.00	0.13	1
Average				1.15	1.06	0.10	

Ref. Method Average:	1.15	ppmC
Average Difference:	0.10	ppmC
Number of Tests:	9	
Standard Deviation:	0.060	ppmC
t Value:	2.306	
Confidence Coefficient:	0.046	ppmC
Relative Accuracy:	12.27	% RM
Test Condition:	176.9	MW

TABLE 4-19
RELATIVE ACCURACY AND BIAS CALCULATION
NO_x LB/HR

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x lb/hr	CEMS NO_x lb/hr	Difference NO_x lb/hr	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	9.807	8.80	1.01	1
2	11/20/2014	8:45	9:23	9.721	8.90	0.82	1
3	11/20/2014	9:35	10:13	9.513	8.60	0.91	1
4	11/20/2014	10:32	10:55	9.969	8.70	1.27	1
5	11/20/2014	11:05	11:28	9.824	9.10	0.72	1
6	11/20/2014	11:35	11:58	9.980	8.80	1.18	1
7	11/20/2014	12:05	12:28	10.014	8.50	1.51	1
8	11/20/2014	12:49	13:12	10.106	8.90	1.21	1
9	11/20/2014	13:23	13:45	9.366	8.70	0.67	1
Average				9.81	8.78	1.03	

Ref. Method Average:	9.81	lb/hr
Average Difference:	1.03	lb/hr
Number of Tests:	9	
Standard Deviation:	0.28	lb/hr
t Value:	2.306	
Confidence Coefficient:	0.22	lb/hr
Relative Accuracy:	12.73	% RM
Test Condition:	176.9	MW

TABLE 4-20
RELATIVE ACCURACY CALCULATION
NO_x LB/MMBTU

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM NO_x lb/MMBtu	CEMS NO_x lb/MMBtu	Difference NO_x lb/MMBtu	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	0.004	0.004	0.000	1
2	11/20/2014	8:45	9:23	0.004	0.004	0.000	1
3	11/20/2014	9:35	10:13	0.004	0.004	0.000	1
4	11/20/2014	10:32	10:55	0.004	0.004	0.000	1
5	11/20/2014	11:05	11:28	0.004	0.004	0.000	1
6	11/20/2014	11:35	11:58	0.004	0.004	0.000	1
7	11/20/2014	12:05	12:28	0.004	0.004	0.000	1
8	11/20/2014	12:49	13:12	0.004	0.004	0.000	1
9	11/20/2014	13:23	13:45	0.004	0.004	0.000	1
Average				0.004	0.004	0.000	

Ref. Method Average:	0.004	lb/MMBtu
Average Difference:	0.000	lb/MMBtu
Number of Tests:	9	
Standard Deviation:	0.000	lb/MMBtu
t Value:	2.306	
Confidence Coefficient:	0.000	lb/MMBtu
Relative Accuracy:	0.00	% RM
Absolute difference:	0.000	lb/MMBtu
Bias Adjustment Factor:	1.000	
Test Condition:	176.9	MW

(1) Since abs(d) > CC, the system does not pass the bias test
RA Limit = 10% or absolute difference of 0.02 lb/MMBtu (0.015 lb/MMBtu to make incentive)

TABLE 4-21
RELATIVE ACCURACY CALCULATION
CO PPMC

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM CO ppmC	CEMS CO ppmC	Difference CO ppmC	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	0.204	0.000	0.204	1
2	11/20/2014	8:45	9:23	0.196	0.000	0.196	1
3	11/20/2014	9:35	10:13	0.193	0.000	0.193	1
4	11/20/2014	10:32	10:55	0.171	0.000	0.171	1
5	11/20/2014	11:05	11:28	0.179	0.000	0.179	1
6	11/20/2014	11:35	11:58	0.182	0.000	0.182	1
7	11/20/2014	12:05	12:28	0.186	0.000	0.186	1
8	11/20/2014	12:49	13:12	0.180	0.000	0.180	1
9	11/20/2014	13:23	13:45	0.177	0.000	0.177	1
Average				0.185	0.000	0.185	

Ref. Method Average:	0.19	ppmc
Average Difference:	0.19	ppmc
Number of Tests:	9	
Standard Deviation:	0.010	ppmc
t Value:	2.306	
Confidence Coefficient:	0.01	ppmc
Relative Accuracy:	104.34	% RM
Absolute Difference:	0.19	<5ppm Abs Diff.
Test Condition:	176.9	MW

TABLE 4-22
RELATIVE ACCURACY CALCULATION
CO LB/HR

Station: PG&E Colusa
Unit: GT Unit 2

Date: 11/20/2014
Performed By: John Peterson

Test	Date	Time Start	Time End	RM CO lb/hr	CEMS CO lb/hr	Difference CO lb/hr	Valid Run (1=yes, 0=no)
1	11/20/2014	7:55	8:33	1.08	-1.60	2.68	1
2	11/20/2014	8:45	9:23	1.04	-1.60	2.64	1
3	11/20/2014	9:35	10:13	1.00	-1.60	2.60	1
4	11/20/2014	10:32	10:55	0.89	-1.60	2.49	1
5	11/20/2014	11:05	11:28	0.93	-1.60	2.53	1
6	11/20/2014	11:35	11:58	0.94	-1.60	2.54	1
7	11/20/2014	12:05	12:28	0.96	-1.60	2.56	1
8	11/20/2014	12:49	13:12	0.93	-1.60	2.53	1
9	11/20/2014	13:23	13:45	0.90	-1.60	2.50	1
Average				0.96	-1.60	2.56	

Ref. Method Average:	0.96	lb/hr
Average Difference:	2.56	lb/hr
Number of Tests:	9	
Standard Deviation:	0.066	lb/hr
t Value:	2.306	
Confidence Coefficient:	0.051	lb/hr
Relative Accuracy:	271.54	%
Absolute Difference:	2.56	<5ppm Abs Diff.
Test Condition:	176.9	MW

4.3 TEST CRITIQUE

All tests were conducted in accordance with the test methods without exception and met the quality assurance criteria to be considered valid tests.

CONTINUOUS EMISSION MONITORING SYSTEM

Delta utilizes a mobile emission measurement laboratory for the performance of O_2, CO, and NO_x measurements. The laboratory is housed in a vehicle outfitted to provide a clean, quiet, environmentally controlled base for the testing operations. The laboratory has lighting, electrical distribution, air conditioning and heating to support the test instruments and provide for optimal test performance.

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

NO_x concentration is determined using a chemiluminescence analyzer. The analyzer is equipped with a low temperature NO_2 - NO converter for the determination of total nitrogen oxides without interference from other nitrogen containing compounds.

Oxygen concentration is determined using an electro-chemical cell analyzer. The cell contains an electrolytic fluid that reacts with oxygen to generate an electrical signal proportional to the concentration.

CO is measured using a non-dispersive infrared/gas filter correlation analyzer.

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

The sampling system is comprised of a glass or stainless steel probe, heated teflon sample line, two-pass thermo-electrically cooled water removal system, teflon lined sample pump and teflon sample line connected to the analyzer gas selection manifold.

CALIBRATION SEQUENCE AND CALCULATIONS
EPA METHOD 3A, 7E, 6C, 10

DEFINITIONS:

1) Analyzer Calibration: Zero and span gas(es) are introduced directly to the analyzer. Adjustments are made to the analyzer zero and upscale readings, as necessary to match the certified concentrations of the calibration gas.

2) Calibration Error: Zero, mid (40-60% of calibration span), and high (100% of calibration span) calibration gases are introduced directly to the analyzer and the analyzer response to each gas is recorded (without adjustment to the analyzer). The Calibration Error (difference between the analyzer response to the calibration gas and the certified concentration of the calibration gas) must not exceed ±2% of the analyzer calibration span for any of the three gases.

3) Analyzer Linearity: Analyzer linearity is defined as the difference between an analyzer response to the mid range gas and the predicted analyzer response to the mid range gas based on the analyzer response to the zero and high range gas. The Analyzer Linearity test is required on a semi-annual basis and must not exceed ±1% of the calibration span.

4) Sample System Bias: The sample system bias test involves introducing zero and one upscale (mid or high) calibration gas to the entire sampling system and recording the analyzer response. The analyzer response to the calibration gas after it has passed through the entire sample system is compared to the analyzer response to same the calibration gas injected directly to the analyzer. The test is used to determine the effect which the sample system has on the species of interest and correct the measured values for any effect which the system has. The sample system bias is required to be less than ±5% of the calibration span for both the zero and upscale gas.

PROCEDURES AND CALCULATIONS:

All calibrations are documented on the strip chart recorder. The appropriate values are marked and the type of calibration performed is written on the chart.

Following assembly of the system, analyzer warm up time, and a successful leak check of the sample system, the calibration/test sequence presented in Figure 1 can begin.

An Analyzer Calibration is performed as necessary by adjusting the zero and span settings of the analyzer. These calibrations are not necessarily recorded on the chart recorder. Calibration Error is then determined at three levels for each range (which is expected to be used) of each analyzer. This check is performed, at a minimum, once at the beginning and once at the end of each test day. The calibration error must not exceed ±2% of the Calibration Span as determined by the following equation:

$$\text{Calibration Error} = \frac{\text{Analyzer Response} - \text{Cal. Gas Value}}{\text{Calibration Span}} * 100\%$$

The data from the Calibration Error test can be used to determine Analyzer Linearity. The analyzer response to the mid gas is predicted using linear regression and the analyzer response to the zero and high calibration gas and the zero and high calibration gas values.

The Sample System Bias test is performed before and after each test run and must not exceed ±5% of the calibration span for both the zero and upscale span gas. The system bias is calculated using the following equation:

$$\text{Sample System Bias} = \frac{\text{Response to System Bias} - \text{Response to Analyzer Cal}}{\text{Calibration Span}} * 100\%$$

Where:

Response to Analyzer Cal = The analyzer response to the last time the same calibration gas was introduced directly to the analyzer (this may be the pre-test calibration error value or a more recent analyzer calibration adjustment)

Zero and Calibration Drift are calculated for each test run based on the analyzer response during the pre- and post-test sample system bias test. Zero and upscale drift must not exceed ±3% of the calibration span.

$$\text{Analyzer Drift} = \frac{\text{Post - Test System Bias Resonse - Pre - Test System Bias Response}}{\text{Calibration Span}} * 100\%$$

The pre- and post-test analyzer responses during the sample system bias test are used to correct the raw test average for any sample system bias and analyzer drift. The drift/bias corrected data are the actual reported concentrations and are used for subsequent calculations (mass emission rates, lb/MMBtu, corrections to 3% or 15% O_2, etc.). The drift/bias corrections are performed using the following equation:

$$C_c = \frac{\overline{C} - C_o}{C_m - C_o} * C_{ma}$$

where:

C_c = Drift/bias corrected concentration

$\overline{C}$ = Raw Test Average

C_m = Average of pre- and post-test response to sample system bias span

C_o = Average of pre- and post-test to sample system bias zero

C_{ma} = Span gas value

SDCAPCD METHOD 100 CALIBRATION SEQUENCE AND CALCULATIONS

DEFINITIONS:

1) Analyzer Calibration: Zero and span gas(es) are introduced directly to the analyzer. Adjustments are made to the analyzer zero and upscale readings, as necessary to match the certified concentrations of the calibration gas.

2) Calibration Error: Zero, mid (40-60% of full scale), and high (80-100%) of full scale) calibration gases are introduced directly to the analyzer and the analyzer response to each gas is recorded (without adjustment to the analyzer). The Calibration Error (difference between the analyzer response to the calibration gas and the certified concentration of the calibration gas) must not exceed ±2% of the analyzer full scale for any of the three gases.

3) Analyzer Linearity: Analyzer linearity is defined as the difference between analyzer response and the predicted analyzer response based on a linear regression of the responses to four upscale calibration gases plus a zero gas. The Analyzer Linearity test is required on a semi-annual basis and must not exceed ±2% of the analyzer range.

4) Sample System Bias: The sample system bias test involves introducing zero and one upscale (mid or high) calibration gas to the entire sampling system and recording the analyzer response. This includes NO_2 calibration gas when sampling from a "High NO_2" source (>5% of total NO_x as NO_2). The analyzer response to the calibration gas after it has passed through the entire sample system is compared to the analyzer response to same the calibration gas injected directly to the analyzer. The test is used to determine the effect which the sample system has on the species of interest and correct the measured values for any effect which the system has. The sample system bias is required to be less than ±5% (±15% for NO_2) of the gas value for the upscale gas and 2% of the instrument span for the zero gas.

PROCEDURES AND CALCULATIONS:

Figure 1 presents a flow chart for the SDAPCD Method 100 calibration sequence. All calibrations are documented on the Yokogawa strip chart recorder by pressing the "Manual Print" button which prints the instantaneous values for each of the active channels on the recorder. The appropriate values are marked and the type of calibration performed is written on the chart.

Following assembly of the system, analyzer warm up time, and a successful leak check of the sample system, the calibration/test sequence presented in Figure 1 can begin.

An Analyzer Calibration is performed as necessary by adjusting the zero and span settings of the analyzer. These calibrations are not necessarily recorded on the chart recorder. Calibration Error is then determined at three levels for each range (which is expected to be used) of each analyzer. This check is performed, at a minimum, once at the beginning and once at the end of each test day. The calibration error must not exceed ±2% of the full range of the analyzer as determined by the following equation:

$$\text{CalibrationError} = \frac{\text{AnalyzerResponse} - \text{Cal.GasValue}}{\text{AnalyzerRange}} * 100\%$$

The data from the Calibration Error test can be used to determine Analyzer Linearity. The analyzer response to the mid gas is predicted using linear regression and the analyzer response to the zero and high calibration gas and the zero and high calibration gas values. The analyzer linearity must be demonstrated on a semi-annual basis using the following equation:

$$\text{AnalyzerLinearity} = \frac{\text{AnalyzerResponse} - \text{PredictedResponse}}{\text{Full Scale}} * 100\%$$

where:

$$\text{PredictedResponse} = \frac{\text{Response to High Gas} - \text{Response to Zero Gas}}{\text{High Gas Value}} * \text{Mid Gas Value} + \text{Response to Zero Gas}$$

The Sample System Bias test is performed before and after each test run and must not exceed ±5% (15% for NO_2) of the gas value and 2% of the upscale span gas. The system bias is calculated using the following equation:

$$\text{Sample System Bias} = 100 - \frac{(\text{Bias} - \text{Bias Zero})}{(\text{Direct} - \text{Direct Zero})} * 100\%$$

where:

Response to Analyzer Cal = The analyzer response to the last time the same calibration gas was introduced directly to the analyzer (this may be the pre-test calibration error value or a more recent analyzer calibration adjustment)

Analyzer response time is also determined as part of the initial system bias checks for each test series.

Zero and Calibration Drift are calculated for each test run based on the analyzer response during the pre- and post-test sample system bias test. Zero and upscale drift must not exceed ±2% of the analyzer range.

$$\text{Analyzer Drift} = \frac{\text{Post - Test System Bias Resonse - Pre - Test System Bias Response}}{\text{Analyzer Range}} * 100\%$$

The pre- and post-test analyzer response during the sample system bias test are used to correct the raw test average for any sample system bias and analyzer drift. The drift/bias corrected data are the actual reported concentrations and are used for subsequent calculations (mass emission rates, lb/MMBtu, corrections to 3% or 15% O_2, etc.). The drift/bias corrections is performed using the following equation:

$$C_c = \frac{\overline{C} - C_o}{C_m - C_o} * C_{ma}$$

where:

C_c = Drift/bias corrected concentration

$\overline{C}$ = Raw Test Average

C_m = Average of pre- and post-test response to sample system bias span

C_o = Average of pre- and post-test to sample system bias zero

C_{ma} = Span gas value

For NO_x effluent gas concentrations, where the stack effluent contains more than 5 percent of the total NO_x as NO_2, calculate the CO, O_2 and CO_2 emissions as specified in section 7.2.2.1 of the SDCAPCD Method 100. Correct the averaged NO_x and NO emission values, for each subtest, for NO_x analyzer drift and calibration error using the following:

$$NO_{x_{avg'}} = (NO_{x_{avg}} - NO_{od}) * \frac{(NO_{ma})}{(NO_{md} - NO_{od})}$$

where:

$NO_{xavg'}$ =	The average NO_x value corrected for analyzer drift and calibration error, ppm.
NO_{xavg} =	The average NO_x value in section 7.2.1, ppm
NO_{od} =	The average of the initial and final zero calibration value when introduced directly to the analyzer, ppm.
NO_{ma} =	The actual certified concentration of the mid- or high-range calibration gas, ppm.

NO_{md} -= The average of the initial and final analyzer calibration responses for the NO mid- or high-range calibration gas when introduced directly to the analyzer, ppm.

To correct the average NO value for analyzer drift and calibration error, make the following substitutions in the formula above:

$NO_{xavg'} = NO_{avg'}$
$NO_{xavg} = NO_{avg}$

where:

$NO_{avg'}$ = The average NO value corrected for analyzer drift and calibration error, ppm.

NO_{avg} = The average NO value in section 7.2.1.

Calculate the average NO_2 effluent gas concentrations using the following formula:

$$NO_{2avg'} = NO_{xavg'} - NO_{avg'}$$

where:

$NO_{2avg'}$ = The average NO_2 value corrected for drift and analyzer calibration error.

Calculate the average effluent concentrations (per subtest) for NO and NO_2 corrected for sample system bias using the following equations:

$$\text{NO gas} = \text{NO avg}' * \frac{(NO_{md} - NO_{od})}{(NO_m - NO_{od})}$$

$$NO_{2gas} = [(NO_{x\,avg} - NO_{od}) - (NO_{avg} - NO_{od})] \frac{(NO_{ma})}{(NO_{md} - NO_{od})} \frac{(NO_{2md} - NO_{od})}{(NO_{2m} - NO_{od})}$$

where:

NO gas = the stack effluent gas concentration for NO, dry basis, ppm.

NO_{2gas} = the stack effluent gas concentration for NO_2, dry basis, ppm.

NO_0 = the average of the initial and final system calibration responses for the NO zero calibration, ppm

NO_m = the average of the initial and final system calibration responses for the NO mid- or high-range calibration gas, ppm.

NO_{2md} = the average of the initial and final calibration responses when the NO_2 used for the system calibration is sampled directly to the analyzer.

NO_{2m} = the average of the initial and final system calibration responses for the NO_2 calibration gas, ppm.

To calculate the total NO_x gas concentration in the stack effluent use the following equation:

NO_x gas = NO gas + NO_2 gas

ADDITIONAL QUALITY ASSURANCE CHECKS:

SDAPCD Method 100 specifies allowed analyzer interferences of 2% for each analyzer type. The analyzers used by Delta are certified by the manufacturers to have interference responses which meet the requirements of Method 100.

The method for determining the efficiency of the NO_2 to NO converter involves the use of a cylinder containing a certified concentration of NO_2. This test will be performed once per quarter unless an on-site demonstration is required by the site conditions (NO_2 > 5% of total NO_x). If the converter efficiency is found to be less than 90%, the converter will be regenerated or replaced and the converter efficiency test will be repeated.

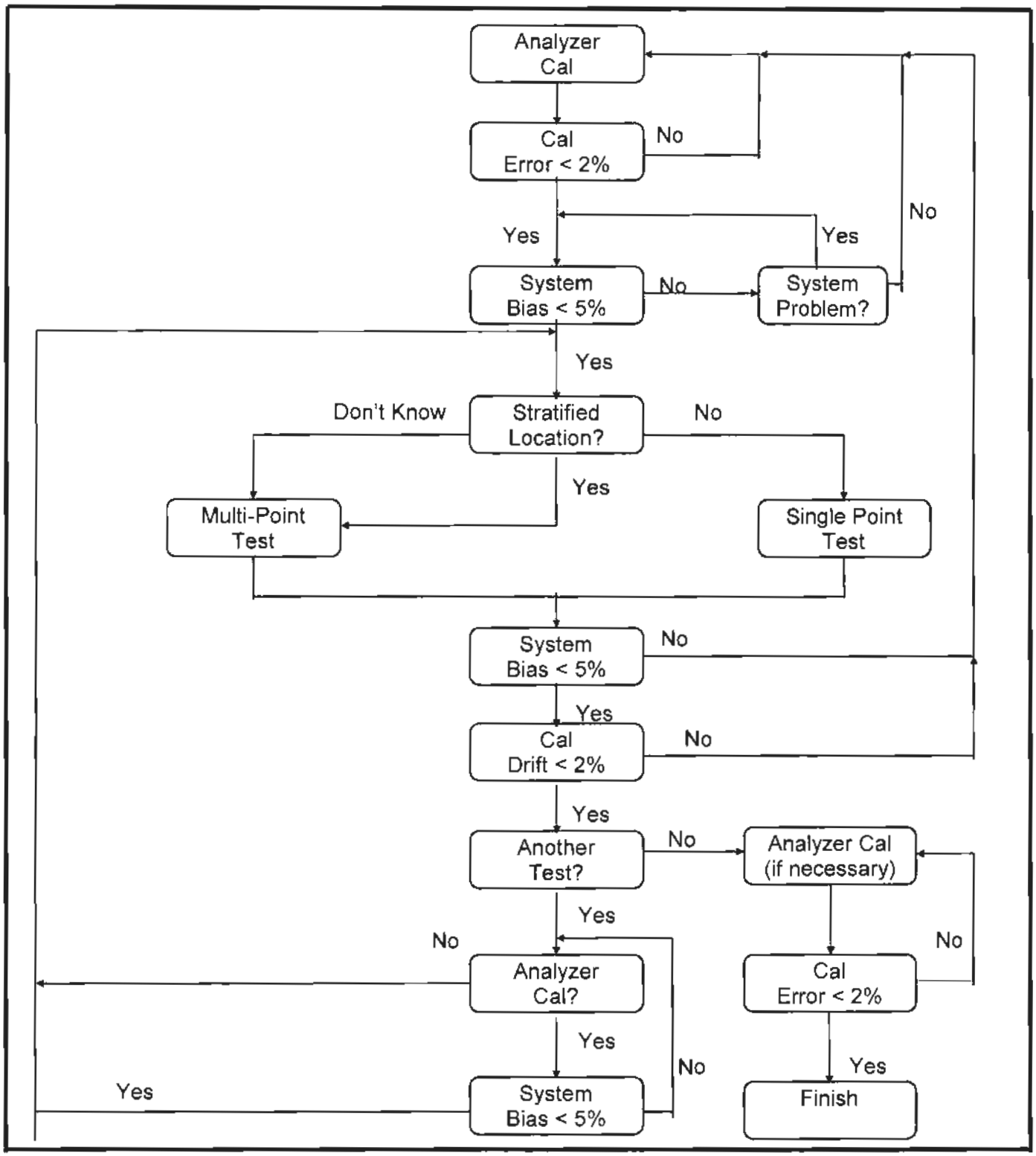

FIGURE 1: SDCAPCD METHOD 100 CALIBRATION AND TEST SEQUENCE

AMMONIA BY ION SELECTIVE ELECTRODE - BAAQMD ST-1B and BAAQMD LAB METHOD 1A

Ammonia emissions are determined by collecting metered volume of flue gas containing ammonia vapor in dilute hydrochloric acid solution. The ammonia concentration of the sample is then determined by Ion Selective Electrode.

A sample is extracted through a glass probe fitted with a filter or quartz wool plug if necessary to remove particulate matter. The plug is located and/or heated to avoid condensation of moisture at the plug. The sample is then passed through four impingers. The first two impingers are filled with 100 ml of 0.1 N hydrochloric acid (HCl), the third is empty, and the fourth is filled with silica gel.

After each sample run, the quartz wool plug (if used) is removed and placed in a sample bottle. The impingers, glass probe, and sampling train glassware are washed with dilute HCl into a separate sample bottle. The sample bottles containing both the impinger and wash solution and the quartz wool plug are returned to the laboratory for analysis.

The ammonia samples are analyzed by Ion Selective Electrode. The sample is made basic by the addition of a pH adjusting solution to shift the ammonium/ammonia equilibrium to favor the ammonia species, which permeates a membrane and reacts with the electrode filling solution to produce an electrical signal which is detected by a dedicated analyzer determine the ammonia concentration.

The ammonia concentrations of the sample solutions are measured in units of ppm NH_3 by weight. By using the NH_3 concentration in ppm by weight, measuring the liquid volume of the sample solution, and obtaining the volume of the flue gas sample, the stack flue gas NH_3 concentration in ppm by volume is calculated using the equation:

$$NH_3\,ppmV = 0.049\,\frac{(ppmwt\,NH_3\,soln)(liq.vol.,ml)}{DSCF(at\,60°F)\,of\,sampled\,flue\,gas}$$

QUALITY ASSURANCE PROGRAM SUMMARY

Delta Air Quality Services, Inc. is committed to providing emission related data which is complete, precise, accurate, representative, and comparable. Delta's quality assurance program and procedures are designed to ensure that the data meet or exceed the requirements of each test method for each of these items. The quality assurance program consists of the following items:

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

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

Internal Quality Assurance Manual: Delta has prepared a QA Manual according to the guidelines issued by EPA. The manual documents and formalizes all of Delta's QA efforts. The manual is a "living" document which is revised as Delta adds capabilities and procedures. The QA manual provides details on the items provided in this summary.

Personnel Training: Personnel training is essential to the production of high quality test results. Delta's training programs include:

- A requirement for all technical personnel to read and understand the test methods performed
- A requirement for all technical personnel to read and understand the Delta QA manual
- In-house training
- Quality Assurance meetings
- Attendance at EPA sponsored training courses
- Maintenance of training records.

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

Knowledge of Current Test Methods: Delta maintains current copies of EPA, ARB, and SCAQMD Source Test Manuals and Rules and Regulations. Delta personnel coordinate, attend, and present papers at emission testing related conferences. Delta personnel maintain memberships in the Air and Waste Management Association and Source Evaluation Society. Delta personnel continually work with industry and regulatory agencies in monitoring and developing new methods and rules.

Chain-of-Custody: Delta maintains chain-of-custody documentation on all data sheets and samples. Samples are stored in a locked area accessible only to Delta source test personnel. Data sheets are kept in the custody of the originator, program manager, or in locked storage until return to Delta's office. Upon return to the office, copies are made and stored in a locking file. The original data sheets are used for report preparation and any additions are initialed and dated.

QA Reviews: Every Delta report is reviewed by someone separate from the report author. The reviewer is selected based on knowledge of the test methods used and the source tested. Periodic field, laboratory, and report reviews are performed by the QA Officer. Test plans are reviewed to ensure proper test methods are selected and reports are reviewed to ensure that the methods will be followed and any deviations from the methods are justified and documented.

TABLE B-1
EQUIPMENT MAINTENANCE SCHEDULE

Equipment	Acceptance Limits	Frequency of Service	Methods of Service
Pumps	1. Absence of leaks 2. Ability to draw manufacturers required vacuum and flow	Every 500 hours of operation or 6 months, whichever is less	1. Visual inspection 2. Clean 3. Replace parts 4. Leak check
Flow Meters	1. Free mechanical movement	Every 500 hours of operation or 6 months, whichever is less	1. Visual inspection 2. Clean 3. Calibrate
Sampling Instruments	1. Absence of malfunction 2. Proper response to zero, span gas	As recommended by manufacturer	As recommended by manufacturer
Integrated sampling tanks	1. Absence of leaks	Depends on nature of use	1. Steam clean 2. Leak check
Mobile van sampling system	1. Absence of leaks	Depends on nature of use	1. Change filters 2. Change gas dryer 3. Leak check 4. Check for system contamination
Sampling lines	1. Sample degradation less than 2%	After each test series	1. Blow dry, inert gas through line until dry.

TABLE B-2
MAJOR SAMPLING EQUIPMENT CALIBRATION REQUIREMENTS

Sampling Equipment	Calibration Frequency	Calibration Procedure	Acceptable Calibration Criteria
Continuous Analyzers	Before and after each test day	3-point calibration error test	< 2% of analyzer range
Continuous Analyzers	Before and after each test run	2-point sample system bias check	< 5% of analyzer range
Continuous Analyzers	After each test run	2-point analyzer drift determination	< 3% of analyzer range
CEMS System	Beginning of each day	leak check	< 1 in. Hg decrease in 5 min. at > 20 in. Hg
Continuous Analyzers	Semi-annually	5-point linearity*	< 1% of analyzer range
NO_x Analyzer	Daily	NO_2 -> NO converter efficiency	> 90%
S-type pitot tube	Prior to each project	Visual inspection	Meet dimensional criteria of Method 2
Differential Pressure Gauges (except for manometers)	Semi-annually	Correction factor based on 5-point comparison to standard	+/- 5%
Differential Pressure Gauges (except for manometers)	Bi-monthly	3-point comparison to standard, no correction factor	+/- 5%
Manometer	Semi-annually	Clean and replace fluid	
Barometer	Semi-annually	Adjusted to mercury-in-glass or National Weather Service Station	+/- 0.1 inches Hg
Dry gas meter	Semi-annually	Calibration check at 4 flow rates using a NIST traceable standard	+/- 2%
Dry gas meter	Bi-monthly	Calibration check at 2 flow rates using a NIST traceable standard	+/- 2% of semi-annual factor
Dry gas meter orifice	Annually	4-point calibration for $\Delta H@$	--
Temperature sensors	Semi-annually	3-point calibration vs. NIST traceable standard	+/- 1.5%

*SDCAPCD requirement

State of California

Air Resources Board

Approved Independent Contractor

OF

Delta Air Quality Services, Incorporated

This is to certify that the company listed above has been approved by the Air Resources Board to conduct compliance testing pursuant to California Code of Regulations, Title 17, Section 91207, until June 30, 2016, for those test methods listed below:

ARB Source Test Methods:
1, 2, 3, 4, 5, 6, 8, 17, 20, 501
100 (CO, CO_2, NO_x, O_2, SO_2)

Dr. Michael T. Benjamin, Chief
Monitoring and Laboratory Division

State of California

Air Resources Board

Approved Independent Contractor

Delta Air Quality Services, Incorporated

This is to certify that the company listed above has been approved by the Air Resources Board to conduct compliance testing pursuant to California Code of Regulations, Title 17, Section 91207, until June 30, 2016, for those test methods listed below:

U.S. EPA Source Test Methods 201A, 202

Dr. Michael T. Benjamin, Chief
Monitoring and Laboratory Division

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 · www.aqmd.gov

December 17, 2013

Mr. Robert A. Finken
Delta Air Quality Services, Inc.
1845 N. Case Street
Orange, CA 92865

Subject: LAP Approval Notice
Reference # 96LA1220

Dear Mr. Finken:

We completed our review of the renewal application you submitted for approval under the South Coast Air Quality Management District's Laboratory Approval Program (SCAQMD LAP). We are pleased to inform you that your firm is approved for the period beginning January 31, 2014, and ending January 31, 2015 for the following methods, subject to the requirements in the LAP Conditions For Approval Agreement and conditions listed in the attachment to this letter:

SCAQMD Methods 1-4
SCAQMD Method 100.1
SCAQMD Methods 25.1 and 25.3 (Sampling)
SCAQMD Methods 5.1, 5.2, 5.3, and 6.1
SCAQMD Rule 1420 – (Lead) Ambient Sampling
USEPA CTM-030 and ASTM D6522-00

Thank you for participating in the SCAQMD LAP. Your cooperation helps us to achieve the goal of the LAP: to maintain high standards of quality in the sampling and analysis of source emissions. You may direct any questions or information to LAP Coordinator, Glenn Kasai. He may be reached by telephone at (909) 396-2271, or via e-mail at gkasai@aqmd.gov.

Sincerely,

Rudy Eden, Senior Manager
Laboratory Services &
Source Test Engineering

RE:GK/gk

cc: Mike Garibay
Glenn Kasai

131217 LapRenewal.doc

Site: PG&E Colusa **Date:** November 17, 2014

APCD Personnel: **Site Personnel:** Charles Price

Delta Inst. Operator: John Peterson **Stack Crew:** RMo / RD

CALIBRATION GASES

Gas	Point	Vendor ID	Expiration Date	Cylinder No.	Conc.		Range	%FS	Status
Zero	Low		N/A	SA4092	0				
O2	High	F22012	11/8/2015	CC109593	18.96	%	20	94.8%	OK
O2	Mid	F22014	5/28/2022	SA18525	10	%	20	50.0%	OK
CO2	High	F22012	11/8/2015	CC109593	9.38	%	10	93.8%	OK
CO2	Mid	F22014	5/28/2022	SA18525	4.99	%	10	49.9%	OK
NO	High	F22014	5/27/2017	CC120115	4.70	ppm	5	94.0%	OK
NO	Mid	F22014	7/21/2017	~~CC112240~~	2.40	ppm	5	48.0%	OK
CO	High	F22013	4/4/2021	CC239355	9.50	ppm	10	95.0%	OK
CO	Mid	F22014	8/22/2022	CC104770	4.88	ppm	10	48.8%	OK
NOx	High	F22014	5/27/2017	CC120115	4.76	ppm	5	95.2%	OK
NOx	Mid	F22014	7/21/2017	~~CC112240~~	2.42	ppm	5	48.4%	OK
NO2	NO2	F22014	2/20/2017	CC99888	3.71	ppm	5	74.2%	n/a

CC112740

" "

MULTI-POINT CALIBRATION INSTRUMENT CHECK, (limit: instr. val. within 2% of full scale of predict. val.).

Conc. level	Gas Concentration				
	O2%	CO2%	NOX ppm	CO ppm	NO ppm
High	18.96	9.38	4.76	9.50	4.70
Zero	0.00	0.00	0.00	0.00	0.00
Mid	10.00	4.99	2.42	4.88	2.40

	Instr. response				
	O2 %	CO2 %	NOX ppm	CO ppm	NO ppm
	18.97	9.40	4.84	9.47	4.89
	0.01	0.04	0.02	0.03	0.00
	9.95	5.06	2.47	4.64	2.49
Scale, 0-	20	10	5	10	5
Slope	1.00	1.00	0.99	1.01	0.96
Intercept	0.0	0.0	0.0	0.0	0.0
Mid (predict.)	**10.01**	**5.02**	**2.47**	**4.9**	**2.50**
Diff. (% full scale)	-0.3	0.4	-0.1	-2.4	-0.1
Status	OK	OK	OK	OK	OK

CONVERTER EFFICIENCY, (must be >90%).

	NOx Mode	NO Mode
NO2 dir (ppm)	3.42	0.03
Zero (ppm)	0.02	0.00
Conv. eff. (%)		91.0

Calibration Error DAS Data

Date	Time	O2	CO2	NOx	CO	NO	
11/17/2014	9:00:00 AM	18.985	9.404	4.839	9.472	4.889	**High**
11/17/2014	9:08:00 AM	9.947	5.062	2.466	4.643	2.492	**Mid**
11/17/2014	9:03:00 AM	0.012	0.04	0.017	0.027	-0.002	**Zero**
11/17/2014	9:23:00 AM	20.712	0.181	3.423	6.095	0.027	**NO2**

Site: PG&E Colusa **Date:** November 18, 2014

APCD Personnel: **Site Personnel:** Charles Price

Delta Inst. Operator: John Peterson **Stack Crew:** RMo / RD

CALIBRATION GASES

Gas	Point	Vendor ID	Expiration Date	Cylinder No.	Conc.		Range	%FS	Status
Zero	Low		N/A	SA4092	0				
O2	High	F22012	11/8/2015	CC109593	18.96	%	20	94.8%	OK
O2	Mid	F22014	5/28/2022	SA18525	10	%	20	50.0%	OK
CO2	High	F22012	11/8/2015	CC109593	9.38	%	10	93.8%	OK
CO2	Mid	F22014	5/28/2022	SA18525	4.99	%	10	49.9%	OK
NO	High	F22014	5/27/2017	CC120115	4.70	ppm	5	94.0%	OK
NO	Mid	F22014	7/21/2017	~~CC112240~~	2.40	ppm	5	48.0%	OK
CO	High	F22013	4/4/2021	CC239355	9.50	ppm	10	95.0%	OK
CO	Mid	F22014	8/22/2022	CC104770	4.88	ppm	10	48.8%	OK
NOx	High	F22014	5/27/2017	CC120115	4.76	ppm	5	95.2%	OK
NOx	Mid	F22014	7/21/2017	~~CC112240~~	2.42	ppm	5	48.4%	OK
NO2	NO2	F22014	2/20/2017	CC99888	3.71	ppm	5	74.2%	n/a

CC112740

" "

MULTI-POINT CALIBRATION INSTRUMENT CHECK, (limit: instr. val. within 2% of full scale of predict. val.).

Conc. level	Gas Concentration					Instr. response				
	O2%	CO2%	NOX ppm	CO ppm	NO ppm	O2 %	CO2 %	NOX ppm	CO ppm	NO ppm
High	18.96	9.38	4.76	9.50	4.70	18.97	9.36	4.80	9.54	4.80
Zero	0.00	0.00	0.00	0.00	0.00	-0.05	0.00	0.01	-0.01	0.02
Mid	10.00	4.99	2.42	4.88	2.40	9.86	5.00	2.43	4.68	2.45
						Scale, 0-	20	10	5	10	5
						Slope	1.00	1.00	1.00	1.00	0.98
						Intercept	0.0	0.0	0.0	0.0	0.0
						Mid (predict.)	9.98	4.98	2.44	4.9	2.46
						Diff. (% full scale)	-0.6	0.2	-0.4	-2.1	-0.1
						Status	OK	OK	OK	OK	OK

CONVERTER EFFICIENCY, (must be >90%).

	NOx Mode	NO Mode
NO2 dir (ppm)	3.40	0.05
Zero (ppm)	0.01	0.02
Conv. eff. (%)		90.2

Calibration Error DAS Data

Date	Time	O2	CO2	NOx	CO	NO	
11/18/2014	7:40:00 AM	18.966	9.36	4.796	9.537	4.8	High
11/18/2014	7:46:00 AM	9.86	5.002	2.427	4.68	2.452	Mid
11/18/2014	7:43:00 AM	-0.049	0	0.013	-0.009	0.017	Zero
11/18/2014	8:02:00 AM	11.669	5.228	3.395	0.8	0.054	NO2

Barometric Pressure Determination

Date: 04/16/13

Time: 7:55

Data By: RMo / RD

Reference: http://forecast.weather.gov/MapClick.php?CityName=Orange&

Reference Barometer ID	**San Diego, Brown Field Municipal Airport (KSDM)**
Reference Barometer Location	Lat: 32.57528 Lon: -116.99306 Elev: 538ft.
Reference Barometer Other Info.	3:18 am PDT Apr 16, 2013
Reference Barometer Indication, corrected to sea level	**30.26**
Reference Barometer Reference Elevation	**20**
Reference Barometer Actual Pressure	30.24
Test Barometer Location/Site	**PG&E Colusa**
Location/Site Elevation	**16**
Location/Site Barometric Pressure	30.24
Sampling Location Height (above/below site elevation)	**175**
Sampling Location Barometric Pressure	**30.07**

Barometric Pressure Determination

Date: 11/18/14

Time: 7:55

Data By: RMo / RD

Reference: http://forecast.weather.gov/MapClick.php?CityName=Orange&

Reference Barometer ID	Sacramento, Sacramento Executive Airport (KSAC)
Reference Barometer Location	Lat: 38.50694°N Lon: 121.495°W Elev: 20ft.
Reference Barometer Other Info.	8:10 am PST Nov 18, 2014
Reference Barometer Indication, corrected to sea level	30.18
Reference Barometer Reference Elevation	20
Reference Barometer Actual Pressure	30.16
Test Barometer Location/Site	PG&E Colusa
Location/Site Elevation	16
Location/Site Barometric Pressure	30.16
Sampling Location Height (above/below site elevation)	175
Sampling Location Barometric Pressure	29.99

PRAXAIR

Praxair Distribution, Inc.
5700 S. Alameda St
Los Angeles, CA 90058
Tel: 323-585-2154
Fax: 714-542-6689

08/06/2014

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Work Order No. 28192329
Customer Reference No.

Product Lot/Batch No. N109421604
Product Part No. NI 5.5CE-AS

SA 4092

CERTIFICATE OF ANALYSIS

Nitrogen, 5.5 Continuous Emission Monitoring Zero

Analytes	Specification	Analytical Results	Analytical Principle	Analytical Accuracy
Nitrogen	>99.9995 %	>99.9995 %	N	--------
Carbon Dioxide	< 1 ppm	< 0.08 ppm	L	± 10 %
Carbon Monoxide	< 0.5 ppm	< 0.03 ppm	L	± 15 %
Total Hydrocarbons	< 0.1 ppm	< 0.1 ppm	Q	± 15 %
Oxides of Nitrogen	< 0.1 ppm	< 0.01 ppm	L	± 15 %
Oxygen	< 0.5 ppm	< 0.4 ppm	W	± 15 %
Sulfur Dioxide	< 0.1 ppm	< 0 ppm	Z	± 15 %
Water	< 2 ppm	< 0.3 ppm	P	± 15 %

Analytical Instruments: Horiba Instruments Inc.~GA-360E~NDIR~Non-dispersive Infrared
Rosemount/Beckman~400A~ FHC- Total Hydrocarbon Analyzer~FID - Flame Ionization Detector
DeltaF~Nanotrace~Trace Oxygen~Electrochemical
AMETEK--921CE~UV SO2 Analyzer~Ultraviolet Absorption
Meeco~Aquavolt~Specific Water Analyzer

Cylinder Style: AS
Filling Method: Temperature/Pressure
Cylinder Pressure @70F: 2000 psig
Date of Fill: 08/04/2014
Cylinder Volume: 168 ft3
Valve Outlet Connection: CGA-580
Cylinder No(s). CC283450
Comments: Batch Analysis included the following cylinders:
CC139052,CC317499,CC320794,CCSA4092,CC283578

Analyst: Oscar Vergara

Approved Signer: Henry Koung

This analysis of the product described herein was prepared by Praxair Distribution, Inc. (PDI) instrument whose calibration is certified using Praxair Distribution, Inc. Reference Materials. Praxair Distribution, Inc. Reference Materials are prepared either by weight traceable to the National Institute of Standards and Technology (NIST), Measurement Canada or by using NIST Standard Reference Materials where available.

Note: All expressions for concentration (e.g. % or ppm) are for gas phase, by volume (e.g. ppmv) unless otherwise noted.

Key to Analytical Techniques

A	Flame Ionization with Methanizer	G	Gas Chromatography with Electrolytic Conductivity Detector	C	Gas Chromatography with Electrolytic Conductivity Detector	D	Gas Chromatography with Flame Ionization Detector
B	Gas Chromatography with Flame Photometric Detector	H	Gas Chromatography with Helium Ionization Detector	G	Gas Chromatography with Flame Photometric Detector	H	Gas Chromatography with Helium Ionization Detector
E	Gas Chromatography with Reduction Gas Analyzer	J	Gas Chromatography with Thermal Conductivity Detector	K	Gas Analyzer with Thermal Conductivity Detector	L	Infrared (FTIR or NDIR)
M	Mass Spectrometry (MS or GC/MS)	N	Dry Electrolytic Conductivity	O	Paramagnetic	P	Specific Water Analyzer
S	Total Hydrocarbon Analyzer	U	Wet Chemistry	V	Titration Lab	I	Other
Q	Chemiluminescence	W	Colorimetry	Y	Electrochemical	X	Photometer/Spectrometer
Z	Pulsed Fluorescence	X	UV Spectrometer				

IMPORTANT

The information contained herein has been prepared in good faith by personnel within Praxair Distribution, Inc. While we believe the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analysis performed, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall liability of Praxair Distribution, Inc. arising out of the use of the information contained herein exceed the fee established for providing such information.

8-20-14 96

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVP ID: F22012

DocNumber: 000045336

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 21789018
Customer P. O. Number: 04120036
Customer Reference Number:

Fill Date: 10/24/2012
Part Number: NI CD9.5O3E-AS
Lot Number: 108229804
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu ft

O2 18.96
CO2 9.38
CC109593
EXP 11/08/15

Certified Concentration:

Expiration Date:		11/8/2015	NIST Traceable
Cylinder Number:		CC109593	Analytical Uncertainty:
9.38	%	CARBON DIOXIDE	± 1 %
18.96	%	OXYGEN	± 1 %
	Balance	NITROGEN	

Certification Information: *Certification Date:* 11/8/2012 *Term:* 36 Months *Expiration Date:* 11/8/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

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

1. Component: CARBON DIOXIDE

Requested Concentration: 9.5 %
Certified Concentration: 9.38 %
Instrument Used: Horiba VIA-510 S/N 2807014
Analytical Method: NDIR
Last Multipoint Calibration: 10/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC7663
Ref. Std. Conc: 10.07%
Ref. Std. Traceable to SRM #: 1675b
SRM Sample #: 6-F-51
SRM Cylinder #: CAL014538

First Analysis Data:						Date:	11/1/2012
Z:	0	R:	10.07	C:	9.38	Conc:	9.38
R:	10.07	Z:	0	C:	9.37	Conc:	9.37
Z:	0	C:	9.38	R:	10.07	Conc:	9.38
UOM:	%			Mean Test Assay:			9.38 %

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

2. Component: OXYGEN

Requested Concentration: 19 %
Certified Concentration: 18.96 %
Instrument Used: OXYMAT 5E
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 10/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC14572
Ref. Std. Conc: 20.03%
Ref. Std. Traceable to SRM #: vs. 2659a
SRM Sample #: 71-07-B
SRM Cylinder #: CLM-008734

First Analysis Data:						Date:	11/1/2012
Z:	0	R:	20.04	C:	18.98	Conc:	18.97
R:	20.04	Z:	0	C:	18.96	Conc:	18.95
Z:	0	C:	18.96	R:	20.04	Conc:	18.95
UOM:	%			Mean Test Assay:			18.96 %

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

Analyzed by: STIgml
Shameela Jiffrey

Certified by:
Rolonda Kaywood

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

3-3-18

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000067639

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

IA CA

927050

Praxair Order Number: 27361030
Customer P. O. Number: 04934552
Customer Reference Number:

Fill Date: 5/20/2014
Part Number: EV NICDOXE78-AS
Lot Number: 109414006
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

O2 10.00
CO2 4.99
SA18525
EXP 05/28/22
F22014

Certified Concentration:

Expiration Date:		5/28/2022	NIST Traceable
Cylinder Number:		SA18525	Analytical Uncertainty:
4.99	%	CARBON DIOXIDE	± 0.8 %
10.00	%	OXYGEN	± 0.4 %
	Balance	NITROGEN	

Certification Information: *Certification Date:* 5/28/2014 *Term:* 96 Months *Expiration Date:* 5/28/2022

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: CARBON DIOXIDE

Requested Concentration: 5 %
Certified Concentration: 4.99 %
Instrument Used: Horiba VIA-510 S/N 2607014
Analytical Method: NDIR
Last Multipoint Calibration: 5/20/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC237433
Ref. Std. Conc: 4.946%
Ref. Std. Traceable to SRM # 1674b
SRM Sample # 7-H-07
SRM Cylinder # FF10831

First Analysis Data:						Date:	5/28/2014
Z:	0	R:	4.95	C:	4.99	Conc:	4.906
R:	4.95	Z:	0	C:	4.99	Conc:	4.988
Z:	0	C:	4.99	R:	4.95	Conc:	4.986
UOM:	%			Mean Test Assay:			4.986 %

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

2. Component: OXYGEN

Requested Concentration 10 %
Certified Concentration: 10.00 %
Instrument Used: OXYMAT 5E
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 5/20/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC81686
Ref. Std. Conc: 14.98%
Ref. Std. Traceable to SRM # 2659a
SRM Sample # 71-E-19
SRM Cylinder # FF22331

First Analysis Data:						Date:	5/28/2014
Z:	0	R:	14.94	C:	9.99	Conc:	10.003
R:	14.94	Z:	0	C:	9.97	Conc:	9.983
Z:	0	C:	9.99	R:	14.94	Conc:	10.003
UOM:	%			Mean Test Assay:			9.997 %

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

Analyzed by: Ying Yu

Certified by: Jacquelyne Fiero

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

8-4-14 gb

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000067374

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 27361030
Customer P. O. Number: 04934552
Customer Reference Number:

Fill Date: 5/14/2014
Part Number: NI NO4.7MZE-AS
Lot Number: 109413408
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft

NOX 4.76
CC120115
Exp 05/27/17
F22014

Certified Concentration:

Expiration Date:	5/27/2017		NIST Traceable
Cylinder Number:	CC120115		Analytical Uncertainty:
4.76	ppm	NITRIC OXIDE (as NOx)	± 1.1 %
	Balance	NITROGEN	

NO = 4.70 ppm

NO for Reference Only

Certification Information: *Certification Date:* 5/27/2014 *Term:* 36 Months *Expiration Date:* 5/27/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: NITRIC OXIDE (as NOx)

Requested Concentration: 4.7 ppm
Certified Concentration: 4.76 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030845077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 5/21/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC335945
Ref. Std. Conc: 10.15 ppm
Ref. Std. Traceable to SRM # : 2629a
SRM Sample # 50-G-109
SRM Cylinder # FF31631

First Analysis Data:						Date:	5/20/2014
Z:	0	R:	10.15	C:	4.77	Conc:	4.77
R:	10.15	Z:	0	C:	4.79	Conc:	4.79
Z:	0	C:	4.76	R:	10.15	Conc:	4.76
UOM:	ppm			Mean Test Assay:			4.76 ppm

Second Analysis Data:						Date:	5/27/2014
Z:	0	R:	10.15	C:	4.74	Conc:	4.74
R:	10.15	Z:	0	C:	4.74	Conc:	4.74
Z:	0	C:	4.75	R:	10.15	Conc:	4.75
UOM:	ppm			Mean Test Assay:			4.743 ppm

Analyzed by: Diego Mestanza

Certified by: Nassim Haddad

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

11-6-14

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000069099

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 27915436
Customer P. O. Number: 05017803
Customer Reference Number:

Fill Date: 7/8/2014
Part Number: NI NO2 4MZE-AS
Lot Number: 109418914
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

NOx 2.42
CC112740
EXP 07/21/17
F22014

Certified Concentration:

Expiration Date:	7/21/2017		NIST Traceable
Cylinder Number:	CC112740		Analytical Uncertainty:
2.42	ppm	NITRIC OXIDE (as NOx)	± 1.1 %
Balance		NITROGEN	

NO = 2.40 ppm

NO for Reference Only

Certification Information: *Certification Date:* 7/21/2014 *Term:* 36 Months *Expiration Date:* 7/21/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: NITRIC OXIDE (as NOx)

Requested Concentration: 2.4 ppm
Certified Concentration: 2.42 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030645077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 6/21/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder #: CC94343
Ref. Std. Conc: 10.08 ppm
Ref. Std. Traceable to SRM #: 2628a
SRM Sample #: 50-G-109
SRM Cylinder #: FF31631

First Analysis Data:						Date:	7/14/2014
Z:	0	R:	10.08	C:	2.42	Conc:	2.42
R:	10.08	Z:	0	C:	2.42	Conc:	2.42
Z:	0	C:	2.43	R:	10.08	Conc:	2.43
UOM:	ppm			Mean Test Assay:			2.423 ppm

Second Analysis Data:						Date:	7/21/2014
Z:	0	R:	10.08	C:	2.42	Conc:	2.42
R:	10.08	Z:	0	C:	2.41	Conc:	2.41
Z:	0	C:	2.42	R:	10.08	Conc:	2.42
UOM:	ppm			Mean Test Assay:			2.417 ppm

Analyzed by: Diego Mestanza

Certified by: N. Haddad
Nassim Haddad

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7-31-14

PRAXAIR

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Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVP ID: P22013

DocNumber: 000051890

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 23090548
Customer P. O. Number: 04313129
Customer Reference Number: .

Fill Date: 3/12/2013
Part Number: NI CO9.5ME-AS
Lot Number: 109306105
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure & Volume: 2000 psig 140 cu ft

CO 9.50
CC 239355
Exp 04/04/21

Certified Concentration:

Expiration Date:	4/4/2021		NIST Traceable
Cylinder Number:	CC239355		Analytical Uncertainty:
9.50	ppm	CARBON MONOXIDE	± 1 %
	Balance	NITROGEN	

Certification Information: Certification Date: 4/4/2013 Term: 96 Months Expiration Date: 4/4/2021

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1. The certification expiration date was assigned using the May 2012 revision of the EPA Traceability Protocol document.Do Not Use this Standard if Pressure is less than 150 PSIG.

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

1 Component: CARBON MONOXIDE

Requested Concentration 9.5 ppm
Certified Concentration: 9.50 ppm
Instrument Used: Horiba VIA-510 S/N 576876015
Analytical Method: NDIR
Last Multipoint Calibration: 3/11/2013

Reference Standard Type: GMIS
Ref Std Cylinder # SA6687
Ref Std Conc: 10.2 ppm
Ref Std Traceable to SRM #: 1677c
SRM Sample # 54 42
SRM Cylinder # XP 002143B

First Analysis Data: Date: 4/2/2013

Z:	0	R:	167.2	C:	156.7	Conc:	9.5
R:	168.3	Z:	0	C:	157.1	Conc:	9.52
Z:	0	C:	156.5	R:	168.2	Conc:	9.49

UOM: ppm Mean Test Assay: 9.5 ppm

Second Analysis Data: Date:

Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0

UOM: ppm Mean Test Assay: 0 ppm

Analyzed by: Ying Yu

Certified by: Shameela Jiffrey

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10-28-13

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000070759

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 28202346
Customer P. O. Number: 05060714
Customer Reference Number:

Fill Date: 8/18/2014
Part Number: N1 CO4.7ME-AS
Lot Number: 109423001
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

CO 4.88
CC104770
EXP08/22/22
F22014

Certified Concentration:

Expiration Date:	8/22/2022		NIST Traceable
Cylinder Number:	CC104770		Analytical Uncertainty:
4.88	ppm	CARBON MONOXIDE	± 1.2 %
	Balance	NITROGEN	

Certifcation Information: *Certification Date:* 8/22/2014 *Term:* 96 Months *Expiration Date:* 8/22/2022

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: CARBON MONOXIDE

Requested Concentration: 4.7 ppm
Certified Concentration: 4.88 ppm
Instrument Used: Horiba VIA-510 S/N 576876015
Analytical Method: NDIR
Last Multipoint Calibration: 8/20/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC130322
Ref. Std. Conc. 10.15 ppm
Ref. Std. Traceable to SRM # : 1677c
SRM Sample # : 5-J-42
SRM Cylinder # : CAL015337

First Analysis Date:						Date:	8/22/2014
Z:	0	R:	84.9	C:	40.9	Conc:	4.884
R:	85	Z:	0	C:	40.8	Conc:	4.872
Z:	0	C:	40.9	R:	85.1	Conc:	4.884
UOM:	ppm			Mean Test Assay:			4.88 ppm

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

Analyzed by: Ying Yu

Certified by: Jack Fu

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

10-22-14

PRAXAIR

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Los Angeles, CA 90058
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PGVPID: F22014

DocNumber: 000063666

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

NOx 3.71
CC99888
EXP 02/20/17

Praxair Order Number: 25993335
Customer P. O. Number: 04732748
Customer Reference Number:

Fill Date: 1/27/2014
Part Number: AI NX4MZE-AS
Lot Number: 109402702
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	2/20/2017		NIST Traceable
Cylinder Number:	CC99888		Analytical Uncertainty:
3.71	ppm	NITROGEN DIOXIDE (as NOx)	± 3.2 %
	Balance	AIR	

Certification Information: *Certification Date:* 2/20/2014 *Term:* 36 Months *Expiration Date:* 2/20/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

The above certified concentration of Total Oxides of Nitrogen (NOx) excludes HNO3. [HNO3]=0.23 ppm (for reference only).

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

1. Component: NITROGEN DIOXIDE (as NOx)

Requested Concentration: 4 ppm
Certified Concentration: 3.71 ppm
Instrument Used: MKS Multigas 2031 FTIR
Analytical Method: Fourier Transform Infrared
Last Multipoint Calibration: 2/4/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC74974
Ref. Std. Conc: 16.8 ppm
Ref. Std. Traceable to SRM # : 2660a
SRM Sample # : 2660-C-45
SRM Cylinder # : CAL016162

First Analysis Data:						Date:	2/12/2014
Z:	0	R:	16.7	C:	3.69	Conc:	3.711
R:	16.71	Z:	0	C:	3.7	Conc:	3.721
Z:	0	C:	3.71	R:	16.71	Conc:	3.731
UOM:	ppm			Mean Test Assay:			3.721 ppm

Second Analysis Data:						Date:	2/20/2014
Z:	0	R:	16.72	C:	3.68	Conc:	3.696
R:	16.73	Z:	0	C:	3.68	Conc:	3.696
Z:	0	C:	3.68	R:	16.71	Conc:	3.696
UOM:	ppm			Mean Test Assay:			3.696 ppm

Analyzed by: Jack Fu

Certified by: Diego Mestanza

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

2-28-14

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Orifice Method - Triplicate Runs/Four Calibration Points
English Meter Box Units, English K' Factor
Filename: Y:\Calibrations\Meters\6-wcs\2014\[Semi-Annual Meter Calibration - 6-WCS 6-13-14.xls]WCS
File Modified From: APEX 522 Series Meter box Calibration
Revised: 4/8/2005

Model #: 2010 00
ID #: 6WCS
Date: 6/13/2014
Bar Pressure: 29.80 (in Hg)
Performed By: M. Edmondson
Meter Serial #: 894082

					DRY GAS METER READINGS				CRITICAL ORIFICE READINGS					
					Initial Temps		Final Temps					Ambient Temperature		
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Inlet (deg F)	Outlet (deg F)	Inlet (deg F)	Outlet (deg F)	Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Final (deg F)	Average (deg F)
0.12	26 00	585 830	591 220	5 390	80 0	76.0	81 0	79.0	33	0 1553	25 0	77 0	78.0	77.5
0 12	26 00	591 220	596 615	5 395	81 0	79.0	82 0	80.0	33	0.1553	25.0	78 0	78.0	78.0
0 12	26 00	596 615	602 005	5.390	82 0	80.0	82.0	80 0	33	0.1553	25 0	78.0	78.0	78.0
0 61	12.00	569 255	574 780	5.525	78 0	76.0	78.0	76 0	48	0.3465	21 0	76.0	76 0	76 0
0 61	12.00	574.780	580.300	5.520	78 0	76 0	79.0	77 0	48	0 3465	21 0	76.0	77.0	76.5
0 61	12 00	580.300	585 830	5 530	79 0	77.0	80.0	77 0	48	0 3465	21 0	77 0	77.0	77.0
2 00	7 00	602.005	607 455	5 450	82.0	80.0	82 0	81 0	63	0 5888	18.0	78 0	78.0	78.0
2 00	7.00	607.455	612 910	5.455	82 0	81 0	83.0	81 0	63	0 5888	18 0	78 0	78 0	78.0
2 00	7 00	612 910	618 365	5 455	83.0	81 0	84 0	82 0	63	0 5888	16 0	78 0	78.0	78.0
3.60	5 00	553 300	558.615	5.315	75.0	74 0	76 0	74.0	73	0 8202	16 0	74 0	74.0	74 0
3.60	5.00	558.615	563.925	5.310	76.0	74 0	76 0	75.0	73	0 8202	16 0	74.0	75.0	74 5
3.60	5 00	563.925	569 255	5 330	76.0	75.0	77 0	75 0	73	0.8202	16.0	75 0	75 0	75 0

DRY GAS METER		ORIFICE			DRY GAS METER CALIBRATION FACTOR	ORIFICE CALIBRATION FACTOR	Individual Run	Individual Orifice	Orifice Average	Orifice Average
VOLUME CORRECTED Vm(std) (cu ft)	VOLUME CORRECTED Vm(std) (liters)	VOLUME CORRECTED Vcr(std) (cu ft)	VOLUME CORRECTED Vcr(std) (liters)	VOLUME NOMINAL Vcr (cu ft)	Y Value (number)	dH@ Value (in H2O)	0 95 < Y < 1.05?	Ymax - Ymin < 0.010?	0 98 < Y/Yd < 1 02?	dH@ - dH@ av < 0 155?
5 253	148 8	5 190	147.0	5 307	0 988	1 654	Pass			
5.249	148.6	5 188	146.9	5.309	0 988	1 653	Pass			
5.239	148.4	5 188	146.9	5 309	0 990	1 651	Pass			
				Average	0.989	1.653		Pass	Pass	Pass
5.417	153 4	5 352	151 6	5 457	0.988	1 692	Pass			
5 407	153.1	5 350	151.5	5 460	0.989	1 692	Pass			
5.409	153 2	5 347	151.4	5.462	0 989	1 692	Pass			
				Average	0.989	1.692		Pass	Pass	Pass
5 319	150.6	5 295	150.0	5.419	0 995	1.913	Pass			
5 319	150.6	5 295	150.0	5.419	0 996	1 911	Pass			
5 312	150 4	5 295	150 0	5 419	0.997	1 909	Pass			
				Average	0.996	1.911		Pass	Pass	Pass
5.271	149 3	5 289	149.8	5.372	1.003	1 783	Pass			
5 261	149 0	5 286	149 7	5.375	1.005	1 783	Pass			
5 276	149 4	5.284	149 6	5 377	1.001	1 783	Pass			
				Average	1.003	1.783		Pass	Pass	Pass

Average Yd: 0.994 dH@: 1.760

Q @ dH = 1: 0.565

SIGNED: Signature on File Date: 6/13/2014

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)*(min)).

Site:	**PG&E Colusa**	**Date:**	**November 19, 2014**
APCD Personnel:		**Site Personnel:**	**Charles Price**
Delta Inst. Operator:	**John Peterson**	**Stack Crew:**	**RMo / RD**

CALIBRATION GASES

Gas	Point	Vendor ID	Expiration Date	Cylinder No.	Conc.		Range	%FS	Status
Zero	Low		N/A	SA4092	0				
O2	High	F22012	11/8/2015	CC109593	18.96	%	20	94.8%	OK
O2	Mid	F22014	5/28/2022	SA18525	10	%	20	50.0%	OK
CO2	High	F22012	11/8/2015	CC109593	9.38	%	10	93.8%	OK
CO2	Mid	F22014	5/28/2022	SA18525	4.99	%	10	49.9%	OK
NO	High	F22014	5/27/2017	CC120115	4.70	ppm	5	94.0%	OK
NO	Mid	F22014	7/21/2017	CC112240	2.40	ppm	5	48.0%	OK
CO	High	F22013	4/4/2021	CC239355	9.50	ppm	10	95.0%	OK
CO	Mid	F22014	8/22/2022	CC104770	4.88	ppm	10	48.8%	OK
NOx	High	F22014	5/27/2017	CC120115	4.76	ppm	5	95.2%	OK
NOx	Mid	F22014	7/21/2017	CC112240	2.42	ppm	5	48.4%	OK
NO2	NO2	F22014	2/20/2017	CC99888	3.71	ppm	5	74.2%	n/a

MULTI-POINT CALIBRATION INSTRUMENT CHECK, (limit: instr. val. within 2% of full scale of predict. val.).

Conc. level	Gas Concentration						Instr. response				
	O2%	CO2%	NOX ppm	CO ppm	NO ppm		O2 %	CO2 %	NOX ppm	CO ppm	NO ppm
High	18.96	9.38	4.76	9.50	4.70		18.98	9.40	4.83	9.60	4.84
Zero	0.00	0.00	0.00	0.00	0.00		0.03	0.06	0.04	-0.02	-0.01
Mid	10.00	4.99	2.42	4.88	2.40		10.01	5.09	2.45	4.68	2.45
						Scale, 0-	20	10	5	10	5
						Slope	1.00	1.00	0.99	0.99	0.97
						Intercept	0.0	-0.1	0.0	0.0	0.0
						Mid (predict.)	**10.02**	**5.03**	**2.47**	**4.9**	**2.47**
						Diff. (% full scale)	-0.1	0.6	-0.4	-2.4	-0.4
						Status	OK	OK	OK	OK	OK

CONVERTER EFFICIENCY, (must be >90%).

	NOx Mode	NO Mode
NO2 dir (ppm)	3.43	0.03
Zero (ppm)	0.04	-0.01
Conv. eff. (%)		90.6

Calibration Error DAS Data

Date	Time	O2	CO2	NOx	CO	NO	
11/19/2014	6:37:00 AM	18.975	9.403	4.828	9.6	4.836	**High**
11/19/2014	6:43:00 AM	10.009	5.087	2.452	4.683	2.446	**Mid**
11/19/2014	6:40:00 AM	0.032	0.058	0.039	-0.015	-0.005	**Zero**
11/19/2014	7:37:00 AM	20.784	0.18	3.434	0.096	0.028	**NO2**

Site: PG&E Colusa **Date:** November 20, 2014

APCD Personnel: **Site Personnel:** Charles Price

Delta Inst. Operator: John Peterson **Stack Crew:** RMo / RD

CALIBRATION GASES

Gas	Point	Vendor ID	Expiration Date	Cylinder No.	Conc.		Range	%FS	Status
Zero	Low		N/A	SA4092	0				
O2	High	F22012	11/8/2015	CC109593	18.96	%	20	94.8%	OK
O2	Mid	F22014	5/28/2022	SA18525	10	%	20	50.0%	OK
CO2	High	F22012	11/8/2015	CC109593	9.38	%	10	93.8%	OK
CO2	Mid	F22014	5/28/2022	SA18525	4.99	%	10	49.9%	OK
NO	High	F22014	5/27/2017	CC120115	4.70	ppm	5	94.0%	OK
NO	Mid	F22014	7/21/2017	CC112240	2.40	ppm	5	48.0%	OK
CO	High	F22013	4/4/2021	CC239355	9.50	ppm	10	95.0%	OK
CO	Mid	F22014	8/22/2022	CC104770	4.88	ppm	10	48.8%	OK
NOx	High	F22014	5/27/2017	CC120115	4.76	ppm	5	95.2%	OK
NOx	Mid	F22014	7/21/2017	CC112240	2.42	ppm	5	48.4%	OK
NO2	NO2	F22014	2/20/2017	CC99888	3.71	ppm	5	74.2%	n/a

MULTI-POINT CALIBRATION INSTRUMENT CHECK, (limit: instr. val. within 2% of full scale of predict. val.).

Conc. level	Gas Concentration					Instr. response				
	O2%	CO2%	NOX ppm	CO ppm	NO ppm	O2 %	CO2 %	NOX ppm	CO ppm	NO ppm
High	18.96	9.38	4.76	9.50	4.70	19.00	9.40	4.75	9.65	4.78
Zero	0.00	0.00	0.00	0.00	0.00	-0.05	0.03	-0.01	0.00	-0.01
Mid	10.00	4.99	2.42	4.88	2.40	9.98	5.04	2.40	4.73	2.43
						Scale, 0-	20	10	5	10	5
						Slope	1.00	1.00	1.00	0.98	0.98
						Intercept	0.1	0.0	0.0	0.0	0.0
						Mid (predict.)	**10.00**	**5.01**	**2.41**	**5.0**	**2.44**
						Diff. (% full scale)	-0.1	0.3	-0.1	-2.3	-0.1
						Status	OK	OK	OK	OK	OK

CONVERTER EFFICIENCY, (must be >90%).

	NOx Mode	NO Mode
NO2 dir (ppm)	3.41	0.03
Zero (ppm)	-0.01	-0.01
Conv. eff. (%)		91.3

Calibration Error DAS Data

Date	Time	O2	CO2	NOx	CO	NO	
11/20/2014	7:28:00 AM	18.999	9.396	4.752	9.653	4.776	**High**
11/20/2014	7:31:00 AM	9.975	5.043	2.404	4.725	2.432	**Mid**
11/20/2014	7:25:00 AM	-0.052	0.03	-0.013	-0.003	-0.007	**Zero**
11/20/2014	7:37:00 AM	20.852	0.091	3.405	0.124	0.025	**NO2**

Barometric Pressure Determination

Date: 11/20/14

Time: 7:55

Data By: RMo / RD

Reference: http://forecast.weather.gov/MapClick.php?CityName=Orange&

Reference Barometer ID	Sacramento, Sacramento Executive Airport (KSAC)
Reference Barometer Location	Lat: 38.50694°N Lon: 121.495°W Elev: 20ft.
Reference Barometer Other Info.	3:50 am PST Nov 20, 2014
Reference Barometer Indication, corrected to sea level	30.18
Reference Barometer Reference Elevation	20
Reference Barometer Actual Pressure	30.10
Test Barometer Location/Site	PG&E Colusa
Location/Site Elevation	16
Location/Site Barometric Pressure	30.16
Sampling Location Height (above/below site elevation)	175
Sampling Location Barometric Pressure	29.99

Barometric Pressure Determination

Date: 11/19/14

Time: 7:55

Data By: RMo / RD

Reference: http://forecast.weather.gov/MapClick.php?CityName=Orange&

Reference Barometer ID	Sacramento, Sacramento Executive Airport (KSAC)
Reference Barometer Location	Lat: 38.50694°N Lon: 121.495°W Elev: 20ft
Reference Barometer Other Info.	3:00 am PST Nov 19, 2014
Reference Barometer Indication, corrected to sea level	30.04
Reference Barometer Reference Elevation	20
Reference Barometer Actual Pressure	30.02
Test Barometer Location/Site	PG&E Colusa
Location/Site Elevation	16
Location/Site Barometric Pressure	30.02
Sampling Location Height (above/below site elevation)	175
Sampling Location Barometric Pressure	29.85

PRAXAIR

Praxair Distribution, Inc.
5700 S. Alameda St
Los Angeles, CA 90058
Tel: 323-585-2154
Fax: 714-542-6689

08/06/2014

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Work Order No. 28192329
Customer Reference No.

Product Lot/Batch No N109421604
Product Part No. NI 5.5CE-AS

SA 4092

CERTIFICATE OF ANALYSIS

Nitrogen, 5.5 Continuous Emission Monitoring Zero

Analytes	Specification	Analytical Results	Analytical Principle	Analytical Accuracy
Nitrogen	>99.9995 %	>99.9995 %	N	----------
Carbon Dioxide	< 1 ppm	< 0.08 ppm	L	± 10 %
Carbon Monoxide	< 0.5 ppm	< 0.03 ppm	L	± 15 %
Total Hydrocarbons	< 0.1 ppm	< 0.1 ppm	Q	± 15 %
Oxides of Nitrogen	< 0.1 ppm	< 0.01 ppm	L	± 15 %
Oxygen	< 0.5 ppm	< 0.4 ppm	W	± 15 %
Sulfur Dioxide	< 0.1 ppm	< 0 ppm	Z	± 15 %
Water	< 2 ppm	< 0.3 ppm	P	± 15 %

Analytical Instruments: Horiba Instruments Inc.~GA-360E~NDIR~Non-dispersive Infrared
Rosemount/Beckman~400A~THC- Total Hydrocarbon Analyzer~FID - Flame Ionization Detector
DeltaF~Nanotrace~Trace Oxygen~Electrochemical
AMETEK~921CE~UV SO2 Analyzer~Ultraviolet Absorption
Meeco~Aquavolt~Specific Water Analyzer

Cylinder Style: AS
Filling Method: Temperature/Pressure
Cylinder Pressure @70F: 2000 psig
Date of Fill: 08/04/2014
Cylinder Volume: 168 ft3
Valve Outlet Connection: CGA-580
Cylinder No(s). CC283450
Comments: Batch Analysis included the following cylinders:
CC139052,CC317499,CC320794,CCSA4092,CC283578

Analyst: Oscar Vergara

Approved Signer: Henry Koung

This analysis of the product contained herein was prepared by Praxair Distribution, Inc. using instruments whose calibration is certified using Praxair Distribution, Inc. Reference Materials. Praxair Distribution, Inc. Reference Materials are prepared to the gravimetric standards traceable to the National Institute of Standards and Technology (NIST) Measurement Canada or by using NIST Standard Reference Materials where available.

Note: All expressions for concentration (e.g. % or ppm) are for gases unless otherwise specified, calibration gas mixtures are certified.

Key to Analytical Techniques

A Flame Ionization with Methanizer	B Gas Chromatography with Flame Ionization Detector	C Gas Chromatography with Electrolytic Conductivity Detector	D Gas Chromatography with Flame Ionization Detector
E Gas Chromatography with Flame Photometric Detector	F Gas Chromatography with Thermal Conductivity Detector	G Gas Chromatography with Flame Ionization Detector	H Gas Chromatography with Photoionization Detector
I Gas Chromatography with Reduction Gas Analyzer	J Gas Chromatography with Thermal Conductivity Detector	K Electrochemical Analysis Using Thermal Conductivity Detector	L Infrared (NDIR or NDIR)
M Gas Chromatography - MS or GC/MS	N Gas Detection Tube	O Photometric Detection Using DPD Table	P Specific Water Analyzer
Q Total Hydrocarbon Analyzer	R Wet Chemistry	S Calculation	T Titration
U Chemiluminescence	V Gas Chromatography	W Gas Chromatography	X Photoionization
Y Pulsed Fluorescence	Z UV Spectrometry		

IMPORTANT

The information contained herein has been prepared, at our request, by yourself and/or Praxair Distribution, Inc. While we believe the information is accurate within the limits of the analytical methods employed and is complete to the extent of the specific analysis requested, we make no warranty or representation as to the suitability of the use of the information for any particular purpose. The information is offered with the understanding that any use of the information is at the sole discretion and risk of the user. In no event shall liability of Praxair Distribution, Inc. arising out of the use of the information contained herein exceed the fee established for providing such information.

8-20-14

PRAXAIR

Praxair
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Tel: (323) 585-2154 Fax:(714) 542-6689
PGVP ID: F22012

DocNumber: 000045336

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo.

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 21789016
Customer P. O. Number: 04120036
Customer Reference Number:

Fill Date: 10/24/2012
Part Number: NI CD9 503E-AS
Lot Number: 109229804
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu ft

O2 18.96
CO2 9.38
CC109593
EXP 11/08/15

Certified Concentration:

Expiration Date:	11/8/2015	NIST Traceable
Cylinder Number:	CC109593	Analytical Uncertainty:
9.38 %	CARBON DIOXIDE	± 1 %
18.96 %	OXYGEN	± 1 %
Balance	NITROGEN	

Certification Information: *Certification Date:* 11/8/2012 *Term:* 36 Months *Expiration Date:* 11/8/2015

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1

Do Not Use this Standard if Pressure is less than 150 PSIG

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

1 . Component: CARBON DIOXIDE

Requested Concentration: 9.5 %
Certified Concentration: 9.38 %
Instrument Used: Horiba VIA-510 S/N 2807014
Analytical Method: NDIR
Last Multipoint Calibration: 10/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC7663
Ref. Std. Conc: 10.07%
Ref. Std. Traceable to SRM # : 1675b
SRM Sample # : 6-F-51
SRM Cylinder # : CAL014538

First Analysis Data:						Date:	11/1/2012
Z:	0	R:	10.07	C:	9.38	Conc:	9.38
R:	10.07	Z:	0	C:	9.37	Conc:	9.37
Z:	0	C:	9.38	R:	10.07	Conc:	9.38
UOM:	%			Mean Test Assay:			9.38 %

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

2 . Component: OXYGEN

Requested Concentration: 19 %
Certified Concentration: 18.96 %
Instrument Used: OXYMAT 5E
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 10/11/2012

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC14572
Ref. Std. Conc: 20.03%
Ref. Std. Traceable to SRM # : vs. 2659a
SRM Sample # : 71-37-B
SRM Cylinder # : CLM-006734

First Analysis Data:						Date:	11/1/2012
Z:	0	R:	20.04	C:	18.98	Conc:	18.97
R:	20.04	Z:	0	C:	18.96	Conc:	18.95
Z:	0	C:	18.96	R:	20.04	Conc:	18.95
UOM:	%			Mean Test Assay:			18.96 %

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

Analyzed by: STigm
Shameela Jiffrey

Certified by:
Rolonda Kaywood

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

3-3-18

PRAXAIR

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PGVPID: F22014

DocNumber: 000067639

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

IA CA
927050

Praxair Order Number: 27361030
Customer P. O. Number: 04934552
Customer Reference Number:

Fill Date: 5/20/2014
Part Number: EV NICDOXE78-AS
Lot Number: 109414006
Cylinder Style & Outlet: AS CGA 590
Cylinder Pressure & Volume: 2000 psig 140 cu. ft

O2 10.00
CO2 4.99
SA18525
EXP 05/28/22
F22014

Certified Concentration:

Expiration Date:		5/28/2022	NIST Traceable
Cylinder Number:		SA18525	Analytical Uncertainty:
4.99	%	CARBON DIOXIDE	± 0.8 %
10.00	%	OXYGEN	± 0.4 %
	Balance	NITROGEN	

Certification Information: *Certification Date:* 5/28/2014 *Term:* 96 Months *Expiration Date:* 5/28/2022

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: CARBON DIOXIDE

Requested Concentration: 5 %
Certified Concentration: 4.99 %
Instrument Used: Horiba VIA-510 S/N 2807014
Analytical Method: NDIR
Last Multipoint Calibration: 5/20/2014

First Analysis Data:								Date:	5/28/2014
Z:	0	R:	4.95	C:	4.99	Conc:	4.986		
R:	4.95	Z:	0	C:	4.99	Conc:	4.986		
Z:	0	C:	4.99	R:	4.95	Conc:	4.986		
UOM:	%			Mean Test Assay:			4.986 %		

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC237433
Ref. Std. Conc: 4.946%
Ref. Std. Traceable to SRM # 1674b
SRM Sample # 7-H-07
SRM Cylinder # FF10831

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

2. Component: OXYGEN

Requested Concentration: 10 %
Certified Concentration: 10.00 %
Instrument Used: OXYMAT 5E
Analytical Method: PARAMAGNETIC
Last Multipoint Calibration: 5/20/2014

First Analysis Data:								Date:	5/28/2014
Z:	0	R:	14.94	C:	9.99	Conc:	10.003		
R:	14.94	Z:	0	C:	9.97	Conc:	9.993		
Z:	0	C:	9.99	R:	14.94	Conc:	10.003		
UOM:	%			Mean Test Assay:			9.997 %		

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC81686
Ref. Std. Conc: 14.96%
Ref. Std. Traceable to SRM # : 2659a
SRM Sample # 71-E-19
SRM Cylinder # FF22331

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

Analyzed by: Ying Yu

Certified by: Jacquelyne Fiero

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

8-4-14 gb

PRAXAIR

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Los Angeles, CA 90058
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PGVPID: F22014

DocNumber: 000067374

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 27361030
Customer P. O. Number: 04934552
Customer Reference Number:

Fill Date: 5/14/2014
Part Number: NI NO4.7MZE-AS
Lot Number: 109413408
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft

NOX 4.76
CC120115
EXP 05/27/17
F22014

Certified Concentration:

Expiration Date:	5/27/2017		NIST Traceable
Cylinder Number:	CC120115		Analytical Uncertainty:
4.76	ppm	NITRIC OXIDE (as NOx)	± 1.1 %
	Balance	NITROGEN	

NO = 4.70 ppm

NO for Reference Only

Certification Information: *Certification Date:* 5/27/2014 *Term:* 36 Months *Expiration Date:* 5/27/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1 Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: NITRIC OXIDE (as NOx)

Requested Concentration: 4.7 ppm
Certified Concentration: 4.76 ppm
Instrument Used: Thermo Electron 42i-LS S/N 1030845077
Analytical Method: Chemiluminescence
Last Multipoint Calibration: 5/21/2014

First Analysis Date:						Date:	5/20/2014
Z:	0	R:	10.15	C:	4.77	Conc:	4.77
R:	10.15	Z:	0	C:	4.79	Conc:	4.79
Z:	0	C:	4.78	R:	10.15	Conc:	4.78
UOM:	ppm			Mean Test Assay:			4.78 ppm

Analyzed by: Diego Mestanza

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC335945
Ref. Std. Conc: 10.15 ppm
Ref. Std. Traceable to SRM # : 2629a
SRM Sample # : 50-G-109
SRM Cylinder # FF31631

Second Analysis Data:						Date:	5/27/2014
Z:	0	R:	10.15	C:	4.74	Conc:	4.74
R:	10.15	Z:	0	C:	4.74	Conc:	4.74
Z:	0	C:	4.75	R:	10.15	Conc:	4.75
UOM:	ppm			Mean Test Assay:			4.743 ppm

Certified by: N. Haddad
Nassim Haddad

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11-6-14

PRAXAIR

Praxair
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Los Angeles, CA 90058
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PGVPID: F22014

DocNumber: 000069099

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality [redacted]
1845 N. Case St,
Orange, CA 92865 [redacted]

Praxair Order Number: 27915436
Customer P. O. Number: 05017803
Customer Reference Number:

Fill Date: 7/8/2014
Part Number: NI NO2.4MZE-AS
Lot Number: 109418914
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

NOX 2.42
CC112740
EXP 07/21/17
F22014

Certified Concentration:

Expiration Date:	7/21/2017		NIST Traceable
Cylinder Number:	CC112740		Analytical Uncertainty:
2.42	ppm	NITRIC OXIDE (as NOx)	± 1.1 %
	Balance	NITROGEN	

NO = 2.40 ppm **NO for Reference Only**

Certifcation Information: *Certification Date:* 7/21/2014 *Term:* 36 Months *Expiration Date:* 7/21/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: NITRIC OXIDE (as NOx)

Requested Concentration:	2.4 ppm
Certified Concentration:	2.42 ppm
Instrument Used:	Thermo Electron 42I-LS S/N 1030645077
Analytical Method:	Chemiluminescence
Last Multipoint Calibration:	6/21/2014

First Analysis Data:						**Date:**	7/14/2014
Z:	0	R:	10.08	C:	2.42	Conc:	2.42
R:	10.08	Z:	0	C:	2.42	Conc:	2.42
Z:	0	C:	2.43	R:	10.08	Conc:	2.43
UOM:	ppm			**Mean Test Assay:**			2.423 ppm

Second Analysis Data:						**Date:**	7/21/2014
Z:	0	R:	10.08	C:	2.42	Conc:	2.42
R:	10.08	Z:	0	C:	2.41	Conc:	2.41
Z:	0	C:	2.42	R:	10.08	Conc:	2.42
UOM:	ppm			**Mean Test Assay:**			2.417 ppm

Reference Standard Type:	GMIS
Ref. Std. Cylinder # :	CC94343
Ref. Std. Conc:	10.08 ppm
Ref. Std. Traceable to SRM # :	2628a
SRM Sample # :	50-G-109
SRM Cylinder # :	FF31631

Analyzed by: Diego Mestanza

Certified by: N. Haddad
Nassim Haddad

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9-31-14

PRAXAIR

Praxair
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Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVP ID: F22013

DocNumber: 000051890

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 23090548
Customer P. O. Number: 04313129
Customer Reference Number:

Fill Date: 3/12/2013
Part Number: NI CO9 5ME-AS
Lot Number: 109305105
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure & Volume: 2000 psig 140 cu. ft

CO 9.50
CC 239355
Exp 04/04/21

Certified Concentration:

Expiration Date:	4/4/2021		NIST Traceable
Cylinder Number:	CC239355		Analytical Uncertainty:
9.50	ppm	CARBON MONOXIDE	± 1 %
	Balance	NITROGEN	

Certification Information: *Certification Date:* 4/4/2013 *Term:* 96 Months *Expiration Date:* 4/4/2021

This cylinder was certified according to the 1997 EPA Traceability Protocol, Document #EPA-600/R-97/121, using Procedure G1 The certification expiration date was assigned using the May 2012 revision of the EPA Traceability Protocol document.Do Not Use this Standard if Pressure is less than 150 PSIG.

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

1. Component: CARBON MONOXIDE

Requested Concentration	9.5 ppm
Certified Concentration:	9.50 ppm
Instrument Used:	Horiba VIA-510 S/N 576876015
Analytical Method:	NDIR
Last Multipoint Calibration:	3/11/2013

Reference Standard Type:	GMIS
Ref Std Cylinder # :	SA5687
Ref Std Conc:	10.2 ppm
Ref Std Traceable to SRM # :	1677c
SRM Sample #	54-42
SRM Cylinder #	XF 002143B

First Analysis Data: Date: 4/2/2013

Z:	0	R:	167.2	C:	155.7	Conc:	9.5
R:	168.3	Z:	0	C:	157.1	Conc:	9.52
Z:	0	C:	156.5	R:	168.2	Conc:	9.49

UOM: ppm Mean Test Assay: 9.5 ppm

Second Analysis Data: Date:

Z:	0	R:	0	C:	0	Conc:	0
R:	0	Z:	0	C:	0	Conc:	0
Z:	0	C:	0	R:	0	Conc:	0

UOM: ppm Mean Test Assay: 0 ppm

Analyzed by: Ying Yu

Certified by: Shameela Jiffrey

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

10-28-13

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000070759

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

Praxair Order Number: 26202346
Customer P. O. Number: 05060714
Customer Reference Number:

Fill Date: 8/18/2014
Part Number: NI CO4.7ME-AS
Lot Number: 109423001
Cylinder Style & Outlet: AS CGA 350
Cylinder Pressure & Volume: 2000 psig 140 cu ft.

CO 4.88
CC104770
EXP08/22/22
F22014

Certified Concentration:

Expiration Date:	8/22/2022		NIST Traceable
Cylinder Number:	CC104770		Analytical Uncertainty:
4.88	ppm	CARBON MONOXIDE	± 1.2 %
	Balance	NITROGEN	

Certification Information: *Certification Date:* 8/22/2014 *Term:* 96 Months *Expiration Date:* 8/22/2022

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

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

1. Component: CARBON MONOXIDE

Requested Concentration:	4.7 ppm
Certified Concentration:	4.88 ppm
Instrument Used:	Horiba VIA-510 S/N 576070015
Analytical Method:	NDIR
Last Multipoint Calibration:	8/20/2014

First Analysis Date:						Date:	8/22/2014
Z:	0	R:	84.9	C:	40.9	Conc:	4.884
R:	85	Z:	0	C:	40.8	Conc:	4.872
Z:	0	C:	40.9	R:	85.1	Conc:	4.884
UOM:	ppm			Mean Test Assay:			4.88 ppm

Reference Standard Type:	GMIS
Ref. Std. Cylinder # :	CC130322
Ref. Std. Conc:	10.15 ppm
Ref. Std. Traceable to SRM # :	1677c
SRM Sample #	8-J-42
SRM Cylinder #	CAL015337

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

Analyzed by: Ying Yu

Certified by: Jack Fu

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10-22-14

PRAXAIR

Praxair
5700 South Alameda Street
Los Angeles, CA 90058
Tel: (323) 585-2154 Fax:(714) 542-6689
PGVPID: F22014

DocNumber: 000063666

CERTIFICATE OF ANALYSIS / EPA PROTOCOL GAS

Custo

Delta Air Quality
1845 N. Case St.
Orange, CA 92865

NO 3.71
CC99888
EXP 02/20/17

Praxair Order Number: 25993335
Customer P. O. Number: 04732748
Customer Reference Number:

Fill Date: 1/27/2014
Part Number: AI NX4MZE-AS
Lot Number: 109402702
Cylinder Style & Outlet: AS CGA 660
Cylinder Pressure & Volume: 2000 psig 140 cu. ft.

Certified Concentration:

Expiration Date:	2/20/2017		NIST Traceable
Cylinder Number:	CC99888		Analytical Uncertainty:
3.71	ppm	NITROGEN DIOXIDE (as NOx)	± 3.2 %
	Balance	AIR	

Certification Information: *Certification Date:* 2/20/2014 *Term:* 36 Months *Expiration Date:* 2/20/2017

This cylinder was certified according to the 2012 EPA Traceability Protocol, Document #EPA-600/R-12/531, using Procedure G1. Do Not Use this Standard if Pressure is less than 100 PSIG.

The above certified concentration of Total Oxides of Nitrogen (NOx) excludes HNO3. [HNO3]=0.23 ppm (for reference only).

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

1. Component: NITROGEN DIOXIDE (as NOx)

Requested Concentration: 4 ppm
Certified Concentration: 3.71 ppm
Instrument Used: MKS Multigas 2031 FTIR
Analytical Method: Fourier Transform Infrared
Last Multipoint Calibration: 2/4/2014

Reference Standard Type: GMIS
Ref. Std. Cylinder # : CC74974
Ref. Std. Conc: 16.6 ppm
Ref. Std. Traceable to SRM # : 2660a
SRM Sample # : 2660-C-45
SRM Cylinder # : CAL016182

First Analysis Data:								Date:	2/12/2014
Z:	0	R:	16.7	C:	3.69	Conc:	3.711		
R:	16.71	Z:	0	C:	3.7	Conc:	3.721		
Z:	0	C:	3.71	R:	16.71	Conc:	3.731		
UOM:	ppm			Mean Test Assay:			3.721 ppm		

Second Analysis Data:								Date:	2/20/2014
Z:	0	R:	16.72	C:	3.68	Conc:	3.698		
R:	16.73	Z:	0	C:	3.68	Conc:	3.698		
Z:	0	C:	3.68	R:	16.71	Conc:	3.698		
UOM:	ppm			Mean Test Assay:			3.698 ppm		

Analyzed by: Jack Fu

Certified by: Diego Mestanza

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2-28-14

SEMI-ANNUAL DRY GAS METER/ORIFICE CALIBRATION

Orifice Method - Triplicate Runs/Four Calibration Points
English Meter Box Units, English K' Factor
Filename: Y:\Calibrations\Meters\6-wcs\2014\[Semi-Annual Meter Calibration - 6-WCS 6-13-14.xls]WCS
File Modified From: APEX 522 Series Meter box Calibration
Revised: 4/8/2005

Model #: 2010 00
ID #: 6WCS
Date: 6/13/2014
Bar. Pressure: 29.80 (in. Hg)
Performed By: M. Edmondson
Meter Serial #: 894082

		DRY GAS METER READINGS							CRITICAL ORIFICE READINGS					
					Initial Temps.		Final Temps					Ambient Temperature		
dH (in H2O)	Time (min)	Volume Initial (cu ft)	Volume Final (cu ft)	Volume Total (cu ft)	Inlet (deg F)	Outlet (deg F)	Inlet (deg F)	Outlet (deg F)	Orifice Serial# (number)	K' Orifice Coefficient (see above)	Actual Vacuum (in Hg)	Initial (deg F)	Final (deg F)	Average (deg F)
0.12	26.00	585.830	591.220	5.390	80.0	78.0	81.0	79.0	33	0.1553	25.0	77.0	78.0	77.5
0.12	26.00	591.220	596.615	5.395	81.0	79.0	82.0	80.0	33	0.1553	25.0	78.0	78.0	78.0
0.12	26.00	596.615	602.005	5.390	82.0	80.0	82.0	80.0	33	0.1553	25.0	78.0	78.0	78.0
0.61	12.00	569.255	574.780	5.525	78.0	76.0	78.0	75.0	48	0.3465	21.0	76.0	76.0	76.0
0.61	12.00	574.780	580.300	5.520	78.0	76.0	79.0	77.0	48	0.3465	21.0	76.0	77.0	76.5
0.61	12.00	580.300	585.830	5.530	79.0	77.0	80.0	77.0	48	0.3465	21.0	77.0	77.0	77.0
2.00	7.00	602.005	607.455	5.450	82.0	80.0	82.0	81.0	63	0.5888	18.0	78.0	78.0	78.0
2.00	7.00	607.455	612.910	5.455	82.0	81.0	83.0	81.0	63	0.5888	18.0	78.0	78.0	78.0
2.00	7.00	612.910	618.365	5.455	83.0	81.0	84.0	82.0	63	0.5888	16.0	78.0	78.0	78.0
3.60	5.00	553.300	558.615	5.315	75.0	74.0	76.0	74.0	73	0.8202	16.0	74.0	74.0	74.0
3.60	5.00	558.615	563.925	5.310	76.0	74.0	76.0	75.0	73	0.8202	16.0	74.0	75.0	74.5
3.60	5.00	563.925	569.255	5.330	76.0	75.0	77.0	75.0	73	0.8202	16.0	75.0	75.0	75.0

DRY GAS METER		ORIFICE			DRY GAS METER CALIBRATION FACTOR	ORIFICE CALIBRATION FACTOR				
VOLUME CORRECTED Vm(std) (cu ft)	VOLUME CORRECTED Vm(std) (liters)	VOLUME CORRECTED Vcr(std) (cu ft)	VOLUME CORRECTED Vcr(std) (liters)	VOLUME NOMINAL Vcr (cu ft)	Y Value (number)	dH@ Value (in H2O)	Individual Run 0.95 < Y < 1.05?	Individual Orifice Ymax - Ymin < 0.010?	Orifice Average 0.98 < Y/Yd < 1.02?	Orifice Average dH@ - dH@ av < 0.155?
5.253	148.8	5.190	147.0	5.307	0.988	1.654	Pass			
5.249	148.6	5.188	146.9	5.309	0.988	1.653	Pass			
5.239	148.4	5.188	146.9	5.309	0.990	1.651	Pass			
				Average	0.989	1.653		Pass	Pass	Pass
5.417	153.4	5.352	151.5	5.457	0.988	1.692	Pass			
5.407	153.1	5.350	151.5	5.460	0.989	1.692	Pass			
5.409	153.2	5.347	151.4	5.462	0.989	1.692	Pass			
				Average	0.989	1.692		Pass	Pass	Pass
5.319	150.6	5.295	150.0	5.419	0.995	1.913	Pass			
5.319	150.6	5.295	150.0	5.419	0.996	1.911	Pass			
5.312	150.4	5.295	150.0	5.419	0.997	1.909	Pass			
				Average	0.996	1.911		Pass	Pass	Pass
5.271	149.3	5.289	149.8	5.372	1.003	1.783	Pass			
5.261	149.0	5.286	149.7	5.375	1.005	1.783	Pass			
5.276	149.4	5.284	149.6	5.377	1.001	1.783	Pass			
				Average	1.003	1.783		Pass	Pass	Pass

Average Yd: 0.994 dH@: 1.760

Q @ dH = 1: 0.565

SIGNED: Signature on File Date: 6/13/2014

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)*(min)).

SAMPLE POINT LOCATION DATA
EPA/SCAQMD METHOD 1

Location:	PG&E Colusa	Date:	11/17/2014
Unit:	GT Unit 1	By:	John Peterson
		D.S. Disturbances (ft.):	62.00
Diameter	228.00	D.S. Disturbances (Diam.):	3.26
Stack Area (ft^2):	283.53	U.S. Disturbances (ft.):	32.00
Coupling Length (in.):	15	U.S. Disturbances (Diam):	1.68

	PM10 Sample Points			Renewal Sample Points		
Point	% of Diameter	Inches from Wall[1]	Inches from Nozzle	% of Diameter[2]	Inches from Wall	Inches from Nozzle
1	4.4	10.0	25.0	3.2	7.3	22.3
2	14.6	33.3	48.3	10.5	23.9	38.9
3	29.6	67.5	82.5	19.4	44.2	59.2
4				32.3	73.6	88.6
	CEMS Long Measurement Line			CEMS Short Measurement Line		
				Meters	Inches	Inches Inside
1	16.7	38.1	53.1	0.4	15.7	30.7
2	50	114.0	129.0	1.2	47.2	62.2
3	83.3	189.9	204.9	2	78.7	93.7
	VOC, Center			50	114.0	129.0

SAMPLE POINT LOCATION DATA
EPA/SCAQMD METHOD 1

Location:	PG&E Colusa	Date:	11/20/2014
Unit:	GT Unit 2	By:	John Peterson
		D.S. Disturbances (ft.):	62.00
Diameter	228.00	D.S. Disturbances (Diam.):	3.26
Stack Area (ft^2):	283.53	U.S. Disturbances (ft.):	32.00
Coupling Length (in.):	15	U.S. Disturbances (Diam):	1.68

	PM10 Sample Points			Renewal Sample Points		
Point	% of Diameter	Inches from Wall[1]	Inches from Nozzle	% of Diameter[2]	Inches from Wall	Inches from Nozzle
1	4.4	10.0	25.0	3.2	7.3	22.3
2	14.6	33.3	48.3	10.5	23.9	38.9
3	29.6	67.5	82.5	19.4	44.2	59.2
4				32.3	73.6	88.6
	CEMS Long Measurement Line			CEMS Short Measurement Line		
				Meters	Inches	Inches Inside
1	16.7	38.1	53.1	0.4	15.7	30.7
2	50	114.0	129.0	1.2	47.2	62.2
3	83.3	189.9	204.9	2	78.7	93.7
	VOC, Center			50	114.0	129.0

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT1
DATE: 11/17/14
RUN NO: 1-NH3-MIN
OPERATOR: RM, RD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: ~~32~~ 16
2min/pt

AMBIENT TEMPERATURE: 50°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JP
SAMPLER RM
SAMPLE CUSTODIAN JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCl	882.1	752.0	
2	0.1N HCl	682.2	681.4	
3	WET	676.1	676.1	
4	SG	965.9	960.3	
	DI H2O LINE RINSE			-100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1140	728.700	N/A	2.0	N/A	N/A	N/A	61	83	82	5"	19%	N/A
3	1143												
2	1145												
1	1147												
END	1149	734.65		2.0				52	64	63	5"		
4	1151	734.65											
3	1153												
2	1155												
1	1157												
END	1159												
4	1202	741.19		2.0				53	84	83	5"		
3	1204												
2	1206												
1	1208												
END	1210												
4	1212	747.08		2.0				54	85	84	5"		
3	1214												
2	1216												
1	1218												
END	1220	753.43											
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA CT1
DATE: 11/19/14
RUN NO: 2-NH3-MIN
OPERATOR: RM RD
METER BOX NO: 6-W CS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 60°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JP
SAMPLER
SAMPLE CUSTODIAN JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	O.INK	871.5	739.4	
2	O.INK	703.6	703.1	
3	MT	650.0	650.2	
4	SG	1029.2	1022.2	
	DI H2O LINE RINSE			-100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1240	754.68	N/A	2.0	N/A	N/A	N/A	61	86	85	6"	14%	N/A
3	1242												
2	1244												
1	1246												
END	1248	761.19		2.0				54	89	86	6"		
4	1250												
3	1252												
2	1254												
1	1256												
END	1258	767.31		2.0				56	89	87	6"		
4	1300												
3	1302												
2	1304												
1	1306												
END	1308	773.20		2.0				56	90	88	6"		
4	1210												
3	1212												
2	1214												
1	1216												
END	1218	779.27											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CTI
DATE: 11/17/14
RUN NO: 3-NH3-MIN-CT1
OPERATOR: RM RD
METER BOX NO: 6-WC5
METER ΔH@: 1.76
METER Yd: 0.954
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 65°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.002 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JP
SAMPLER
SAMPLE CUSTODIAN JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCl	854.9		725.5
2	0.1N HCl	689.2	689.4	
3	DI	641.6	642.1	
4	SG	986.6	977.9	
	DI ~~Imp~~ 1 & 2 LINE RINSE			-100.00
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1329	780.44	NA	2.0	NA	NA	NA	59	89	89	6"	14%	NA
3	1331												
2	1333												
1	1335												
END	1337	786.79		2.0				55	91	89	6"		
4	1339												
3	1341												
2	1343												
1	1345												
END	1347	793.86		2.0				56	93	91	6"		
4	1349												
3	1351												
2	1353												
1	1355												
END	1357	800.21		2.0				56	95	91	9"		
4	1359												
3	1401												
2	1403												
1	1405												
END	1407	806.56											
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: Colusa CTI
DATE: 11/17/14
RUN NO: 1- NH3 MID
OPERATOR: Ben RR
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 60
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JP
SAMPLER
SAMPLE CUSTODIAN JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	880.2	748.1
2	0.1N HCl	683.0	681.3
3	MT	676.0	675.0
4	SG	972.1	969.9
	DI H2O LINE RINSE		-100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1425	807.10	N/A	2.0	N/A	N/A	N/A	60	90	87	6" Hg	14	N/A
3	1427												
2	1429												
1	1431								92	91			
END	1433	813.36		2.0				53	92	91	6"		
4	1435												
3	1437												
2	1439												
1	1441												
END	1443	819.81		2.0				55	94	91	6"		
4	1445												
3	1447												
2	1449												
1	1451												
END	1453	826.26		2.0				57	96	93	6"		
4	1455												
3	1457												
2	1459												
1	1501												
END	1503	832.67											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: Colusa CT1
DATE: 11/17/14
RUN NO: 2-NH3-M.D
OPERATOR: RM RD
METER BOX NO: 6WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 2835
TRAVERSE POINTS, MIN/POINT: 32/60

AMBIENT TEMPERATURE: 65°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: Teflon
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JP
SAMPLER
SAMPLE CUSTODIAN JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	866.3	735.4
2	0.1N HCl	704.9	703.0
3	MT	650.0	649.3
4	SG	1035.3	1029.2
	DI H2O LINE RINSE		-100.00
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1515	834.04	N/A	2.0	N			61	92	91	6"	14%	N/A
3	1517												
2	1519												
1	1521												
END	1523	840.47		2.0				54	94	92	6"		
4	1525												
3	1527												
2	1529												
1	1530												
END	1533	846.09		2.0				56	94	93	6"		
4	1535												
3	1537												
2	1539												
1	1541												
END	1543	853.48		2.0				56	94	93	6"		
4	1545												
3	1547												
2	1549												
1	1551												
END	1553	859.42											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: Colusa CT1
DATE: 11/7/14
RUN NO: 3-NH3 MID
OPERATOR: RM RD
METER BOX NO: 6W03
METER ΔH@: 1.
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32 / 12

AMBIENT TEMPERATURE: 65°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN JD
SAMPLER
SAMPLE CUSTODIAN JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1 NHCl	850.2	714.2	
2	0.1 NHCl	686.8	686.8	
3	MT	640.0	640.3	
4	SG	993.1	986.6	
	DI H2O	RINSE	RINSE	
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1602	860.94	N/A	2.0	N			59	90	89	6"	14%	N/A
3	1604												
2	1606												
1	1608												
END	1610	867.64		2.0				54	92	90	6"		
4	1612												
3	1614												
2	1616												
1	1618												
END	1620	873.91		2.0				54	90	89	6"		
4	1622												
3	1624												
2	1626												
1	1628												
END	1630	880.190		2.0				54	87	86	6"		
4	1632												
3	1634												
2	1636												
1	1638												
END	1640	886.43											
Average:													

Comments:

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Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT1
DATE: 11/7/14
RUN NO: 1-NH3-BASE
OPERATOR: RM RD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.99 CF
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 3 / 16

AMBIENT TEMPERATURE: 63°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 1%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12 in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER:
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0 INHCl	903.1	753.3	
2	0 INHC	677.1	676.6	
3	MT	675.2	674.9	
4	SG	977.2	972.1	
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1700	887.14	N/A	2.0	N/A			61	81	80	6"	14%	N/A
3	1702												
2	1704												
1	1706												
END	1708	890.01											
4	1710			2.0				52	80	78	6"		
3	1712												
2	1714												
1	1716												
END	1718	897.27		2.0				52	80	77	6"		
4	1720												
3	1722												
2	1724												
1	1726												
END	1728	903.67		2.0				54	79	77	6"		
4	1730												
3	1732												
2	1734												
1	1736												
END	1738	910.06											
Average:													

Comments:

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Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT1
DATE: 11/17/14
RUN NO: 2-NH3-BASE
OPERATOR: RM RD
METER BOX NO: G-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 63°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.002 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.002 CFM@ 10" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCl	878.8	736.5	
2	0.1N HCl	706.7	705.6	
3	MT	648.5	648.0	
4	SG	1040.0	1035.3	
	DI H2O LINE RINSE			100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1745	911.25	N/A	2.0	N/A			57	77	75	6"	14%	N/A
3	1750												
2	1752												
1	1754												
END	1756	917.45		2.0				52	77	76	6"		
4	1758												
3	1800												
2	1802												
1	1804												
END	1806	823.87		2.0				55	78	75	6"		
4	1808												
3	1810												
2	1812												
1	1814												
END	1816	930.29		2.0				55	77	75	6"		
4	1818												
3	1820												
2	1822												
1	1824												
END	1826	936.50											
Average:													

Comments:

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WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: CULUSA
DATE: 11/17/14
RUN NO: 3 - NH3 BASE
OPERATOR: RM DR
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 30.07
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER:
SAMPLE CUSTODIAN:

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1NHCl	855.4	713.8
2	0.1NHCl	691.9	690.3
3	MT	640.5	640.0
4	SG	999.5	993.1
	DI H2O LINE RINSE		-100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1835	937.56	N/A	2.0	N/A			57	76	74	6"	14%	N/A
3	1837												
2	1839												
1	1841												
END	1843	943.66		2.0				56	76	73	6"		
4	1845												
3	1847												
2	1849												
1	1851												
END	1853	949.54		2.0				53	75	73	6"		
4	1855												
3	1857												
2	1859												
1	1901												
END	1903	955.91		2.0				53	75	72	6"		
4	1905												
3	1907												
2	1909												
1	1911												
END	1913	962.50											
Average:													

Comments:

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Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT1
DATE: 11/17/14
RUN NO: 2-NH3-MAX
OPERATOR: RM
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 56°
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 15" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 21" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1NHCl	844.8	696.2	
2	0.1NHCl	633.0	631.7	
3	MT	675.7	675.1	
4	SG	983.5	977.2	
	DI H2O LINE RINSE			-100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	0915	963.79	N/A	2.0	N			60	60	58	5"	14%	N/A
3	0917												
2	0919												
1	0921												
END	0923	970.04		2.0				54	65	61	5"		
4	0925												
3	0927												
2	0929												
1	0931												
END	0933	976.21		2.0				56	67	63	5"		
4	0935												
3	0937												
2	0939												
1	0941												
END	0943	982.14		2.0				57	68	64	5"		
4	0945												
3	0947												
2	0949												
1	0951												
END	0953	989.02											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CTI
DATE: 11/17/14
RUN NO: 2-NH3-MAX
OPERATOR: RM DP
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 44°
BAROMETRIC PRESSURE: 29.89
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	0.1N HCl	876.5	737.9	
2	0.1N HCl	708.4	707.3	
3	MT	648.5	648.3	
4	SG	1076	1040	
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	0905	990.51	N/A	2.0	N			60	70	67	6"	14%	N/A
3	0907												
2	0909												
1	0911												
END	0913	996.32		2.0				55	72	68	6"		
4	0915												
3	0917												
2	0919												
1	0921												
END	0923	1002.44		2.0				56	74	70	6"		
4	0925												
3	0927												
2	0929												
1	0931												
END	0933	1008.36		2.0				57	76	71	6"		
4	0935	~~HIT~~											
3	0937												
2	0939												
1	0941												
END	0943	1014.77											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: Colusa CTI
DATE: 11/18/14
RUN NO: 3 NH3 MAT
OPERATOR: RM
METER BOX NO: 10-WCS
METER ΔH@: 1.760
METER Yd: 0.990
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 48°
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1NHCl	873.2	715.5
2	0.1NHCl	693.5	687.9
3	MT	640.4	640.3
4	SG	1004.0	999.5
5	DI H2O	0	100
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	0955	16.81	N/A	2.0	N/A			61	75	75	6"	14%	N/A
3	0957												
2	0959												
1	1001												
END	1003	23.17		2.0				56	80	76	6"		
4	1005												
3	1007												
2	1009												
1	1011												
END	1013	29.63		2.0				56	81	78	6"		
4	1015												
3	1017												
2	1019												
1	1021												
END	1023	36.14		2.0				5	82	79	6"		
4	1025												
3	1027												
2	1029												
1	1031												
END	1033	42.41											
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA ET2
DATE: 4/19/14
RUN NO: 1-NH3-MIN
OPERATOR: RAY RD
METER BOX NO: 6.WCS
METER ΔH@: 1.760
METER Yd: 0.9941
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 3/16

AMBIENT TEMPERATURE: 53°
BAROMETRIC PRESSURE: 29.5
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10"
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12 in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: LP
SAMPLER: RD
SAMPLE CUSTODIAN: RD

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCl	890.3	745.1	
2	0.1N HCl	683.0	682.2	
3	WT	674.6	673.8	
4	SG	989.7	983.5	
	DI H2O LINE RINSE			~100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
	752	43.91	N/A	2.0				60	70	69	6"	14%	N/A
3	754												
2	756												
1	758												
END	800	50.31		2.0				50	70	69			
4	802												
3	804												
2	806												
1	808												
END	810	50.65						50	70	68	6"		
4	812												
3	814												
2	816												
1	818							49	69	68	6"		
END	820	53.01		2.0									
4	822												
3	824												
2	826												
1	828												
END	830	69.06											
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT2
DATE: 11/19/14
RUN NO: 2-NH3-MIN
OPERATOR: RM. RD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 58°
BAROMETRIC PRESSURE: 29.85
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 15" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
CHAIN OF CUSTOOY:
SAMPLE CUSTODIAN JD
SAMPLER RM
SAMPLE CUSTODIAN JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	878.4	739.3
2	0.1N HCl	703.8	702.5
3	MT	650.0	648.4
4	SG	1055.2	1047.5
	DI H2O	LINE RINSE	-100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	842	70.04	N/A	2.0				53	62	62	5"	N/A	N/A
3	844												
2	846												
1	848												
END	850	76.28		2.0				51	63	62	5"		
4	852												
3	854												
2	856												
1	858												
END	900	82.54		2.0				49	63	62	5"		
4	902												
3	904												
2	906												
1	908												
END	910	88.90		2.0				50	65	63	5"		
4	912												
3	914												
2	916												
1	918												
END	920	95.12											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: Colusa CT2
DATE: 11/19/14
RUN NO: 3-NH3-min
OPERATOR: RM - RD
METER BOX NO: B-12CS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.55
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 2" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: JP
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1 N HCl	843.0	704.0
2	0.1 N HCl	682.3	681.6
3	NT	641.0	640.6
4	SG	1011.5	1004.0
	DI H_2O LINE RINSE		-100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H_2O	ΔH in. H_2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O_2 %	P. static in. H_2O
4	929	96.54	N/A	2.0				58	70	68	6"		N/A
3	931	~~102.55~~											
2	933												
1	935												
END	937	102.55		2.0				52	73	69	6"		
4	939												
3	941				N								
2	943												
1	945												
END	947	109.01		2.0				54	75	70	6"		
4	949												
3	951												
2	953												
1	955												
END	957	115.42		2.0			K	54	76	70	6"		
4	959												
3	1001												
2	1003												
1	1005												
END	1007	122.07											
Average:													

Comments:

DS834049

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Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: Colusa CT2
DATE: 11/19/14
RUN NO: 1-NH3-MID
OPERATOR: RM - RD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: Teflon
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.001 CFM@ 15 in. Hg.
PRE-TEST LEAK RATE: : 0.00 CFM@ 12 in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RM
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	895.5	751.3
2	0.1N HCl	681.8	680.3
3	MT	676.3	675.3
4	SG	995.0	989.7
	DI H_2O	LINE RINSE	100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H_2O	ΔH in. H_2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O_2 %	P. static in. H_2O
4	1025	123.25	N/A	2.0	N			57	73	72	6"	N/A	N/A
3	1027												
2	1029												
1	1031												
END	1033	129.51		2.0				45	76	74	6"		
4	1035												
3	1037												
2	1039												
1	1041												
END	1043	136.00		2.0				50	78	74	6"		
4	1045												
3	1047												
2	1049												
1	1051												
END	1053	142.74		2.0				51	80	75	6"		
4	1055												
3	1057												
2	1059												
1	1101												
END	1103	149.45											
Average:													

Comments:

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Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA CT2
DATE: 11/19/14
RUN NO: 2- NH3- AMB
OPERATOR: RM - KD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	0 INHCl	878.7	739.4	
2	0 INHCl	710.1	709.5	
3	MT	650.5	650.6	
4	SG	1060.6	1041.0	522
	DI H2O LINE RINSE			100.0
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1112	150.01	N/A	2.0	N			53	75	74	5"	14%	N/A
3	1114												
2	1116												
1	1118												
END	1120	156.41		2.0				53	76	74	5"		
4	1122												
3	1124												
2	1126												
1	1128												
END	1130												
4	1132	162.83		2.0				51	77	75	5"		
3	1134												
2	1136												
1	1138												
END	1140	169.20		2.0				51	78	76	5"		
4	1142												
3	1144												
2	1146												
1	1148												
END	1150	175.75											
Average:													

Comments:

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Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: Colusa CT2
DATE: 11/19/14
RUN NO: 3-NH3-m.0
OPERATOR: RM - RD
METER BOX NO: G-WRS
METER ΔH@: 1.560
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/10

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFION
PROBE ID NO/MATERIAL: NA
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.00 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.00 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RM
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1NHCl	850.1	713.8
2	0.1NHCl	650.5	690.1
3	MT	641.2	640.3
4	SG	1017.3	1011.5
	DI H2O Line Purge		-100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1150	176.64	N/A	2.0				56	74	70	6"		.01
3	1200												
2	1202												
1	1204												
END	1206	182.85		2.0	N			52	76	73	6"		
4	1208												
3	1210												
2	1212												
1	1214												
END	1216	189.53		2.0				53	77	74	6"		
4	1218												
3	1220												
2	1222												
1	1224												
END	1226	196.00		2.0				51	74	73	6"		
4	1228												
3	1230						A						
2	1232												
1	1234												
END	1236	202.90											
Average:													

Comments:

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Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CTZ
DATE: 11/19/14
RUN NO: 1-NH3-BASE
OPERATOR: RM - RD
METER BOX NO: 6-WES
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 12 in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RM
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	0.1N HCl	695.4	751.6	
2	0.1N HC	685.7	684.4	
3	MT	677.1	675.8	
4	SG	1000.6	995.0	
	- DI H2O LINE RINSE - 100			
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	1255	204.15	N/A	2.0				54	76	74	5"	24%	N/A
3	1257												
2	1259												
1	1301												
END	1303	210.79		2.0				45	75	74	5"		
4	1305												
3	1307				N								
2	1309												
1	1311												
END	1313	217.21		2.0				49	76	75	5"		
4	1315												
3	1317												
2	1319												
1	1321												
END	1323	223.70		2.0			A	50	77	75	5"		
4	1325												
3	1327												
2	1329												
1	1331												
END	1333	230.65											
Average:													

Comments:

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Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PGE
LOCATION: COLUSA CT2
DATE: 11/18/14
RUN NO: 2-WK3-BASE
OPERATOR: RM / RD
METER BOX NO: 16WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 2855
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEF
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RAY
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	895.1	748.1
2	0.1N H4	680.5	679.8
3	MT	651.9	651.4
4	SG	1066.1	1060.1
LR	DI H2O	Ø	100
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1354	231.90	NA	2.0	NA	NA	NA	56	70	69	5"	14%	NA
3	1356												
2	1358												
1	1350												
END	1352							45	71	70	5"		
4	1354	238.44		2.0									
3	1356												
2	1358												
1	1400												
END	1402												
4	1404	245.55		2.0				50	72	70	5"		
3	1406												
2	1408												
1	1410												
END	1412	252.67		2.0				50	73	71	5"		
4	1414												
3	1416												
2	1418												
1	1422												
END	1424	259.79											
Average:													

Comments:

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Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA CT 2
DATE: 11/19/14
RUN NO: 3-NH3-BASE
OPERATOR: RM - RD
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 29.8
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: ~A
PROBE LENGTH: 10'
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 10" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	0.1N HCl	865.8	715.3	
2	0.1N HCl	694.2	694.1	
3	MT	640.7	640.8	
4	SG	1022.5	1017.3	
	DI H2O LINE RINSE			~100.
Total:				

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	1436	260.99	N/A	2.0				54	70	69	5"	14%	N/A
3	1438												
2	1440												
1	1442												
END	1444	267.51		2.0				~~53~~	~~71~~	~~70~~			
4	1446							53	71	70	5"		
3	1448												
2	1450												
1	1452												
END	1454	273.75		2.0				50	72	71	5"		
4	1456				N								
3	1458						A						
2	1500												
1	1502												
END	1504	280.05		2.0				50	72	70	5"		
4	1506												
3	1508												
2	1510												
1	1512												
END	1514	286.43											
Average:													

Comments:

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Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: P G+E
LOCATION: Colusa CTZ
DATE: 11/20/14
RUN NO: 1-NH3-MAX
OPERATOR: RAY M
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 28.35
TRAVERSE POINTS, MIN/POINT: 32/16

AMBIENT TEMPERATURE: 50°
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 10
PRE-TEST LEAK RATE: : 0.002 CFM@ 15" in. Hg.
PRE-TEST LEAK RATE: : 0.001 CFM@ 16" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN NP
SAMPLER RAY
SAMPLE CUSTODIAN JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HCl	904.8	751.0
2	0.1N HC	682.7	682.6
3	MT	676.4	676.1
4	SG	1006.0	1000.6
	DI H2O LINE RINSE		100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H2O	ΔH in. H2O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O2 %	P. static in. H2O
4	755	287.42	N/A	2.0				53	65	64	5"	14%	N/A
3	757												
2	759												
1	801												
END	803	293.69		2.0				53	69	65	5"		
4	805												
3	807												
2	809												
1	811												
END	813	300.13		2.0				54	71	65	5"		
4	815												
3	817												
2	819												
1	821												
END	823	306.87		2.0				54	72	69	5"		
4	825												
3	827												
2	829												
1	831												
END	833	313.54											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PAN E
LOCATION: Colusa ET2
DATE: 11/20/14
RUN NO: 2-NH3-MAX
OPERATOR: RAY
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 283.5
TRAVERSE POINTS, MIN/POINT: 31/16

AMBIENT TEMPERATURE: 50°
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 101
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
PRE-TEST LEAK RATE: : 0.002 CFM@ 10" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JP
SAMPLER: RM
SAMPLE CUSTODIAN: JP

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.N HCl	897.4	739.5
2	0.N HCl	703.7	703.6
3	MT	649.8	649.5
4	SG	1072.0	1066.1
	DI H2O LINE RINSE		- 100.0
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	845	314.46	N/A	2.0				53	71	69	5"	14%	N/A
3	847												
2	849												
1	851												
END	853	320.65		2.0				52	71	70	5"		
4	855												
3	857												
2	859												
1	901												
END	903	326.91		2.0				54	72	70	5"		
4	905												
3	907					N	A						
2	909												
1	911												
END	913	333.30		2.0				54	73	71	5"		
4	915												
3	917												
2	919												
1	921												
END	923	339.61											
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: Colusa CT2
DATE: 11/20/14
RUN NO: 3-NH3-MAX
OPERATOR: RAM M
METER BOX NO: 6-WCS
METER ΔH@: 1.760
METER Yd: 0.994
STACK AREA, FT²: 203.5
TRAVERSE POINTS, MIN/POINT: 32/PT

AMBIENT TEMPERATURE: 52°
BAROMETRIC PRESSURE: 25.99
ASSUMED MOISTURE: 10%
PROBE ID NO/MATERIAL: TEFLON
PROBE ID NO/MATERIAL: N/A
PROBE LENGTH: 101
PRE-TEST LEAK RATE: : 0.002 CFM@ 15" in. Hg.
PRE-TEST LEAK RATE: : 0.002 CFM@ 12" in. Hg.
CHAIN OF CUSTODY:
SAMPLE CUSTODIAN: JD
SAMPLER: RM
SAMPLE CUSTODIAN: JD

Imp. #	Contents	Post-Test	Pre-Test = Difference
1	0.1N HC	858.2	700.4
2	0.1N HCl	666.9	666.6
3	MT	640.6	640.1
4	SG	1027.7	1022.5
	D2 H2O	LINE RINSE	
Total:			

Point	Time	Meter Volume, ft³	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °F In	Meter Temp, °F Out	Vacuum in. Hg.	O₂ %	P. static in. H₂O
4	935	340.61	N/A	2.0				52	66	65	6"	14.7	N/A
3	937												
2	939												
1	941												
END	943	347.06		2.0				52	67	66	6"		
4	945												
3	947												
2	949												
1	951												
END	953	353.83		2.0				53	69	66	5"		
4	955												
3	957												
2	959												
1	1001												
END	1003	360.15		2.0				53	70	67	5"		
4	1005												
3	1007												
2	1009												
1	1011												
END	1013	366.95											
Average:													

Comments:

Delta

SUMMA CANISTER SAMPLING DATA SHEET

CLIENT: PGE PERFORMED BY: Rm RD

LOCATION: COLUSA UNIT: CT

Test #	1-VOC-BASE	2-VOC-BASE	3-VOC-BASE		
Date	11/17/14	11/17/14	11/17/14		
Time	1700 1750	1748 1848	1835 1905		
Flask #	# 000393	# 000538	# 000545		
Flow Controller #	NA	N/A	N/A		
Initial Vac.	30	30	30		
Final Vac.	5	5	5		

Comments:

Delta

SUMMA CANISTER SAMPLING DATA SHEET

CLIENT: PG+E PERFORMED BY: RM

LOCATION: COLUSA UNIT: CT1

Test #	1-VOC-MAY	2-VOC-MAY	3-VOC-MAY		
Date	11/18/14	11/18/14	11/18/14		
Time	0815 0845	0905 0935	0955 1025		
Flask #	000448	000527	000504		
Flow Controller #					
Initial Vac.	30	30	30		
Final Vac.	5	5	5		

Comments: _____

Delta

SUMMA CANISTER SAMPLING DATA SHEET

CLIENT: PGE PERFORMED BY: RM

LOCATION: COLUSA UNIT: CT 2

Test #	1-VOC2	2-VOC2	3-VOC2		
Date	11/20/14	11/20/14	11/20/14		
Time	0755 0835	0845 0915	0935 1005		
Flask #	#000409	#000539	#000440		
Flow Controller #	N/A	N/A	N/A		
Initial Vac.	30"	30"	30"		
Final Vac.	5"	5"	5"		

Comments:

Delta

SUMMA CANISTER SAMPLING DATA SHEET

CLIENT: PGE Colusa PERFORMED BY: RMo / RD

LOCATION: Stack UNIT: CT 2

Test #	1-VOC-2	2-VOC-2	3-VOC-2		
Date	11/19/14	11/19/14	11/19/14		
Time	1255 1325	1344 1414	1436 1506		
Flask #	000553 ~~3477~~	000433	000498		
Flow Controller #	N/A	N/A	N/A		
Initial Vac.	30	30	30		
Final Vac.	5	5	5		

Comments: Base Coal

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA CT1
DATE: 11/18/14
RUN NO: 1-FORM
OPERATOR: RD
METER BOX NO: 116 P&M
METER ΔH@:
METER Yd:
SAMPLE CUSTODIAN

AMBIENT TEMPERATURE: 50
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: clm
PRE-TEST LEAK RATE: : 0.000 CFM@ 12 in. Hg
POST-TEST LEAK RATE: : 0.000 CFM@ 14 in. Hg
TRAVERSE POINTS, MIN/POINT:
STACK AREA, FT²:
CHAIN OF CUSTODY: SAMPLE CUSTODIAN
SAMPLER RD

Imp. #	Contents	Post-Test - Pre-Test = Difference
1	DNPH	114.4
2	DNPH	105.8
3	SG	1265
Total:		

Point	Time	Meter Volume, Ltr³ 10.256 RD	ΔP in. H₂O	ΔH in. H₂O	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	1040	~~10.305~~	NA	.10					59	60	10	14%	NA
	1055	10.308		.10					59	60	10		
	1110	10.312		.10					59	60	10		
	1125	10.316		.10					59	60	10		
	1140	10.316		.10					60	60	10		
	1155	10.316		.10					60	60	10		
	1210	10.316		.10					60	60	10		
	1225	10.316		.10					60	60	10		
	1240	10.316		.10					60	60	10		
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PGE
LOCATION: Colusa CT1
DATE: 11/18/14
RUN NO: 2-Form-CT1
OPERATOR: RD
METER BOX NO: 16 PBM
METER ΔH@:
METER Yd:
SAMPLE CUSTODIAN 15 min/pt

AMBIENT TEMPERATURE: 58
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: CLM
PRE-TEST LEAK RATE: : 0.000 CFM@ 12 in. Hg
POST-TEST LEAK RATE: :0.000 CFM@ 12 in. Hg
TRAVERSE POINTS, MIN/POINT: SP
STACK AREA, FT²:
CHAIN OF CUSTODY: SAMPLE CUSTODIAN
SAMPLER RD

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	DNPH	116.2	114.5	
2	DNPH	106.4	106.5	
3	SG	127.8	127.3	
Total:				

Point	Time	Meter Volume, Ltr³	ΔP in. H₂O	~~ΔH in. H₂O~~ L/min	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	1403	10.366	NA	.5	NA			icebath	66	70	8		na
	1418	10.373		.5					66	70	8		
	1433	10.381		.5					66	70	8		
	1448	10.388		.5					67	70	8		
	1503	10.396		.5					67	69	8		
	1518	10.403		.5					67	69	8		
	1533	10.411		.5					66	69	8		
	1548	10.418		.5					66	68	8		
	1603	10.426		.5					66	68	8		
Average:							NA						

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PGE
LOCATION: COLUSA CT 1
DATE: 11/18/14
RUN NO: 3-FORM-1
OPERATOR: RD
METER BOX NO: 16 P&M
METER ΔH@:
METER Yd:
SAMPLE CUSTODIAN

AMBIENT TEMPERATURE: 61
BAROMETRIC PRESSURE: 29.97
ASSUMED MOISTURE: CLM
PRE-TEST LEAK RATE: : 0.000 CFM@ 12 in. Hg
POST-TEST LEAK RATE: : 0.000 CFM@ 13 in. Hg
TRAVERSE POINTS, MIN/POINT: 15 min/pt
STACK AREA, FT²:
CHAIN OF CUSTODY: SAMPLE CUSTODIAN
SAMPLER

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	DNPH	113.8	111.6	
2	DNPH	110.6	110.5	
3	SG	125.9	125.7	
Total:				

Point	Time	Meter Volume, Ltr³	ΔP in. H₂O	~~ΔH in. H₂O~~ L/min	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	1615	10.428	NA	.5	NA			ice bath	66	69	8		NA
	1630	10.435		.5					66	69	8		
	1645	10.443		.5					65	68	8		
	1700	10.450		.5					65	68	8		
	1715	10.458		.5					64	67	8		
	1730	10.465		.5					64	67	8		
	1745	10.473		.5					63	66	8		
	1800	10.480		.5					63	66	8		
	1815	10.488		.5					63	65	8		
							NA						
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: Colusa CTZ
DATE: 11/20
RUN NO: 1-Form-2
OPERATOR: RD
METER BOX NO: 16 PGM
METER ΔH@: N/A
METER Yd: 0.9874
SAMPLE CUSTODIAN: JP

AMBIENT TEMPERATURE: 50
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: CLM
PRE-TEST LEAK RATE: : 0.000 CFM@ 15 in. Hg
POST-TEST LEAK RATE: : 0.000 CFM@ 12 in. Hg
TRAVERSE POINTS, MIN/POINT: SP 15 min/pt
STACK AREA, FT²: N/A
CHAIN OF CUSTODY: SAMPLE CUSTODIAN: JP
SAMPLER: RD

Imp. #	Contents	Post-Test	Pre-Test	Difference
1	DNPH	114.5	111.3	
2	DNPH	110.8	110.8	
3	SG	126.4	126.0	
Total:				

Point	Time	Meter Volume, Ltr³	ΔP in. H₂O	~~ΔH in. H₂O~~ L/min	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	0755	10.498	NA	.5	NA			Ice bath	59	62	8		NA
	0810	10.505		.5					59	62	8		
	825	10.513		.5					59	62	8		
	840	10.520		.5					59	62	8		
	855	10.528		.5					58	61	8		
	910	10.535		.5					57	60	8		
	925	10.543		.5					56	59	8		
	940	10.550		.5					54	59	8		
	955	10.558		.5					53	58	8		
Average:													

Comments:

Delta

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG+E
LOCATION: COLUSA CT2
DATE: 11/20/14
RUN NO: 2-FORM-2
OPERATOR: RD
METER BOX NO: 16 P&M
METER ΔH@:
METER Yd: .9874
SAMPLE CUSTODIAN

AMBIENT TEMPERATURE: 50
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: CLM
PRE-TEST LEAK RATE: : 0.000 CFM@ 15 in. Hg
POST-TEST LEAK RATE: : 0.000 CFM@ 11 in. Hg
TRAVERSE POINTS, MIN/POINT: SP 15 min/pt
STACK AREA, FT²:
CHAIN OF CUSTODY: SAMPLE CUSTODIAN
SAMPLER RD

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	DNPH	116.0	114.0	
2	DNPH	106.4	106.2	
3	SG	128.3	127.7	
Total:				

Point	Time	Meter Volume, Ltr³	ΔP in. H₂O	~~ΔH in. H₂O~~ L/min	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	1000	10.559	Na	.5	Na			Ice bath	52	57	8		Na
	1015	10.566		.5					52	57	8		
	1030	10.574		.5					52	56	8		
	1045	10.581		.5					51	56	8		
	1100	10.589		.5					51	55	8		
	1115	10.596		.5					51	55	8		
	1130	10.604		.5					51	54	8		
	1145	10.611		.5					50	54	8		
	1200	10.619		.5					50	54	8		
							Na						
Average:													

Comments:

Delta Air Quality Services, Incorporated

WET CHEMICAL SAMPLING SYSTEM DATA AND WORKSHEET

CLIENT: PG&E
LOCATION: COLUSA CT2
DATE: 11/20/17
RUN NO: 3-Form-2
OPERATOR: RD
METER BOX NO: 10 P&M
METER ΔH@: N/A
METER Yd: 1.9874
SAMPLE CUSTODIAN

AMBIENT TEMPERATURE: 50
BAROMETRIC PRESSURE: 29.99
ASSUMED MOISTURE: CLM
PRE-TEST LEAK RATE: : 0.000 CFM@ 15 in. Hg
POST-TEST LEAK RATE: : 0.000 CFM@ 14 in. Hg
TRAVERSE POINTS, MIN/POINT: SP 15 min/pt
STACK AREA, FT²: N/A
CHAIN OF CUSTODY: SAMPLE CUSTODIAN
SAMPLER: RD

Imp. #	Contents	Post-Test	Pre-Test	= Difference
1	DNPH	114.0	111.5	
2	DNPH	111.0	109.8	
3	SG	126.8	126.2	
Total:				

Point	Time	Meter Volume, Ltr³	ΔP in. H₂O	ΔH ~~in. H₂O~~ L/min	Stack Temp, °F	Probe Temp, °F	Filter Temp, °F	Imp. Out Temp, °F	Meter Temp, °C In	Meter Temp, °C Out	Vacuum in. Hg.	O₂ %	Pstatic in. H₂O
SP	1205	10.620	NA	.5	NA			Icebath	50	54	8		NA
	1220	10.627		.5					50	54	8		
	1235	10.635		.5					50	54	8		
	1250	10.642		.5					50	54	8		
	1305	10.650		.5					50	54	8		
	1320	10.657		.5					50	53	8		
	1335	10.665		.5					50	53	8		
	1350	10.672		.5					50	53	8		
	1405	10.680		.5					50	53	8		
				.5									
							NA						
Average:													

Comments:

GENERAL EMISSION CALCULATIONS

I. Stack Gas Velocity

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

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

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

B. Absolute stack pressure, iwg

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

C. Stack gas velocity, ft/sec

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

II. Moisture

A. Sample gas volume, dscf

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

B. Water vapor volume, scf

$$V_{wstd} = 0.0472 * V_{lc} * \frac{T_{ref}}{528\ °R}$$

C. Moisture content, dimensionless

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

III. Stack gas volumetric flow rate

A. Actual stack gas volumetric flow rate, wacfm

$$Q = V_s * A_s * 60$$

B. Standard stack gas flow rate, dscfm

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

IV. <u>Gaseous Mass Emission Rates, lb/hr</u>

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

V. <u>Emission Rates, lb/MMBtu</u>

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

6. Percent Isokinetic

$$I = \frac{17.32 x T_s (V_m std)}{(1 - Bwo) 0 x V_s x Ps x Dn^2} x \frac{528 \circ R}{T_{ref}}$$

7. Particulate emissions

a) Grain loading, gr/dscf

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

b) Grain loading at 12% CO_2, gr/dscf

$C_{12\%}\ CO_2 = C\ (12/\%\ CO_2)$

c) Mass emissions, lb/hr

M = C x Qsd x (60 min/hr)/(7000 gr/lb)

d) Particulate emission factor

$$lb/10^6 Btu = C x \frac{1lb}{7000gr} x F x \frac{20..9}{20.9 - \%O_2}$$

Nomenclature:

A_s	= stack area, ft^2
B_{wo}	= flue gas moisture content, dimensionless
$C_{12\%CO2}$	= particulate grain loading, gr/dscf corrected to 12% CO_2
C	= particulate grain loading, gr/dscf
C_p	= pitot calibration factor, dimensionless
Dn	= nozzle diameter, in.
F	= fuel F-Factor, dscf/MMBtu @ 0% O_2
H	= orifice differential pressure, iwg
I	= % isokinetics
M_n	= mass of collected particulate, mg
M_i	= mass emission rate of specie i, lb/hr
MW	= molecular weight of flue gas, lb/lb-mole
M_{wi}	= molecular weight of specie i:
	SO_2: 64
	NO_x: 46
	CO: 28
	HC: 16
0	= sample time, min.
ΔP	= average velocity head, iwg = $(\sqrt{\Delta P})^2$
P_{bar}	= barometric pressure, inches Hg
P_s	= stack absolute pressure, inches Hg
P_{sg}	= stack static pressure, iwb
Q	= wet stack flow rate at actual conditions, wacfm
Q_{sd}	= dry standard stack flow rate, dscfm
SV	= specific molar volume of an ideal gas at standard conditions, ft^3/lb-mole
T_m	= meter temperature, °R
T_{ref}	= reference temperature, °R
T_s	= stack temperature, °R
V_s	= stack gas velocity, ft/sec
V_{lc}	= volume of liquid collected in impingers, ml
V_m	= uncorrected dry meter volume, dcf
V_{mstd}	= dry meter volume at standard conditions, dscf
V_{wstd}	= volume of water vapor at standard conditions, scf
Y_d	= meter calibration coefficient

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 1**		Data By	**John Peterson**
Test Number	1-NH3-Min-1	2-NH3-Min-1	3-NH3-Min-1	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/17/2014	11/17/2014	11/17/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Min)	32	32	32	
Barometric Pressure (in Hg)	30.07	30.07	30.07	
Start Time	11:40	12:40	13:29	
Stop Time	12:20	13:18	14:07	
Meter Volume (acf)	24.730	24.590	26.120	
Meter Temperature (F)	83.5	87.5	91.0	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	36.5	39.4	37.4	
Stack O_2 (%)	14.05	13.99	14.00	
Standard Sample Volume (SCF)	24.115	23.803	25.124	
Moisture Fraction	0.067	0.072	0.066	
Stack Flow Rate (dscfm, 68 °F)	546.175	552.657	552.821	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	828.90	763.50	765.40	
Mass NH_3 (mg)	0.829	0.764	0.765	
Mass NH_3 (lb)	1.83E-06	1.68E-06	1.69E-06	
PPM NH_3 (flue gas)	1.72	1.60	1.52	1.61
PPM NH_3 @ O_2 Correction	1.48	1.37	1.30	1.38
lb/hr NH_3	2.48	2.34	2.23	2.35

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 1**		Data By	**John Peterson**
Test Number	1-NH3-Mid-1	2-NH3-Mid-1	3-NH3-Mid-1	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/17/2014	11/17/2014	11/17/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.99	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Mid)	32	32	32	
Barometric Pressure (in Hg)	30.07	30.07	30.07	
Start Time	14:25	15:15	16:02	
Stop Time	15:03	15:53	16:40	
Meter Volume (acf)	25.570	25.380	25.490	
Meter Temperature (F)	91.9	92.9	89.1	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	41.0	39.6	42.2	
Stack O_2 (%)	13.94	13.96	13.96	
Standard Sample Volume (SCF)	24.557	24.329	24.602	
Moisture Fraction	0.073	0.071	0.075	
Stack Flow Rate (dscfm, 68 °F)	662,307	659,831	658,961	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	917.80	891.80	612.00	
Mass NH_3 (mg)	0.918	0.892	0.612	
Mass NH_3 (lb)	2.02E-06	1.96E-06	1.35E-06	
PPM NH_3 (flue gas)	1.87	1.83	1.24	1.65
PPM NH_3 @ O_2 Correction	1.58	1.56	1.06	1.40
lb/hr NH_3	3.27	3.20	2.17	2.88

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 1**		Data By	**John Peterson**
Test Number	1-NH3-Base-1	2-NH3-Base-1	3-NH3-Base-1	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/17/2014	11/17/2014	11/17/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Base)	32	32	32	
Barometric Pressure (in Hg)	30.07	30.07	30.07	
Start Time	16:56	17:48	18:35	
Stop Time	17:38	18:26	19:13	
Meter Volume (acf)	28.920	25.220	24.940	
Meter Temperature (F)	79.0	76.3	74.3	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	55.7	49.4	50.1	
Stack O_2 (%)	13.73	13.77	13.76	
Standard Sample Volume (SCF)	28.436	24.925	24.741	
Moisture Fraction	0.085	0.086	0.087	
Stack Flow Rate (dscfm, 68 °F)	771.344	771.562	772.539	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	1035.00	1048.50	1028.00	
Mass NH_3 (mg)	1.035	1.049	1.028	
Mass NH_3 (lb)	2.28E-06	2.31E-06	2.26E-06	
PPM NH_3 (flue gas)	1.82	2.10	2.08	2.0
PPM NH_3 @ O_2 Correction	1.50	1.74	1.71	1.6
lb/hr NH_3	3.71	4.29	4.24	4.1

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 1**		Data By	**John Peterson**
Test Number	1-NH3-Max-1	2-NH3-Max-1	3-NH3-Max-1	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/18/2014	11/18/2014	11/18/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Min)	32	32	32	
Barometric Pressure (in Hg)	29.99	29.99	29.99	
Start Time	8:15	9:05	9:55	
Stop Time	8:53	9:43	10:33	
Meter Volume (acf)	25.030	24.460	25.600	
Meter Temperature (F)	63.3	71.0	78.6	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	56.8	46.7	53.4	
Stack O_2 (%)	11.84	11.86	11.79	
Standard Sample Volume (SCF)	25.285	24.349	25.123	
Moisture Fraction	0.096	0.083	0.091	
Stack Flow Rate (dscfm, 68 °F)	740.876	749,017	749,017	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	1042.00	1011.90	995.40	
Mass NH_3 (mg)	1.042	1.012	0.995	
Mass NH_3 (lb)	2.30E-06	2.23E-06	2.19E-06	
PPM NH_3 (flue gas)	2.08	2.08	1.98	2.0
PPM NH_3 @ O_2 Correction	1.34	1.35	1.28	1.3
lb/hr NH_3	4.04	4.12	3.92	4.0

NH3 EQUATIONS:

ppm NH3 = (mass NH3* Gas Const * Ref Temp * 10^6)/(Sample vol. * Press * MW)

ppm NH3 @ O2 correction = ppm * (20.9-O2 Corr)/(20.9-%O2)

lb/hr NH3 = (ppm * stack flow * MW * 60)/Specific Molar Volume/10^6

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 2**		Data By	**John Peterson**
Test Number	1-NH3-Min-2	2-NH3-Min-2	3-NH3-Min-2	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/19/2014	11/19/2014	11/19/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Min)	32	32	32	
Barometric Pressure (in Hg)	29.85	29.85	29.85	
Start Time	7:52	8:42	9:29	
Stop Time	8:32	9:20	10:07	
Meter Volume (acf)	25.180	25.080	25.530	
Meter Temperature (F)	69.0	62.8	71.6	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	53.0	49.7	47.6	
Stack O_2 (%)	13.85	13.83	13.83	
Standard Sample Volume (SCF)	25.043	25.242	25.266	
Moisture Fraction	0.091	0.085	0.082	
Stack Flow Rate (dscfm, 68 °F)	542,383	543,551	544,851	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	516.10	467.50	349.20	
Mass NH_3 (mg)	0.516	0.468	0.349	
Mass NH_3 (lb)	1.14E-06	1.03E-06	7.69E-07	
PPM NH_3 (flue gas)	1.03	0.93	0.69	0.9
PPM NH_3 @ O_2 Correction	0.86	0.77	0.58	0.7
lb/hr NH_3	1.48	1.33	1.00	1.3

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 2**		Data By	**John Peterson**
Test Number	1-NH3-Mid-2	2-NH3-Mid-2	3-NH3-Mid-2	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/19/2014	11/19/2014	11/19/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.99	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Mid)	32	32	32	
Barometric Pressure (in Hg)	29.85	29.85	29.85	
Start Time	10:25	11:12	11:58	
Stop Time	11:03	11:50	12:36	
Meter Volume (acf)	26.200	25.740	26.260	
Meter Temperature (F)	75.3	75.3	73.9	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	52.0	47.7	51.4	
Stack O_2 (%)	13.83	13.83	13.82	
Standard Sample Volume (SCF)	25.753	25.301	25.879	
Moisture Fraction	0.087	0.082	0.086	
Stack Flow Rate (dscfm, 68 °F)	657,154	656,026	656,526	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	635.60	400.20	420.40	
Mass NH_3 (mg)	0.636	0.400	0.420	
Mass NH_3 (lb)	1.40E-06	8.81E-07	9.26E-07	
PPM NH_3 (flue gas)	1.23	0.79	0.81	0.9
PPM NH_3 @ O_2 Correction	1.03	0.66	0.68	0.8
lb/hr NH_3	2.14	1.37	1.41	1.6

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 2**		Data By	**John Peterson**
Test Number	1-NH3-Base-2	2-NH3-Base-2	3-NH3-Base-2	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/19/2014	11/19/2014	11/19/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Base)	32	32	32	
Barometric Pressure (in Hg)	29.85	29.85	29.85	
Start Time	12:55	13:44	14:36	
Stop Time	13:33	14:24	15:14	
Meter Volume (acf)	26.500	27.390	25.440	
Meter Temperature (F)	75.3	70.8	70.6	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	52.0	54.2	55.7	
Stack O_2 (%)	13.66	13.69	13.68	
Standard Sample Volume (SCF)	26.048	27.151	25.224	
Moisture Fraction	0.086	0.086	0.094	
Stack Flow Rate (dscfm, 68 °F)	778,152	777,241	776,190	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	844.60	777.40	692.50	
Mass NH_3 (mg)	0.845	0.777	0.693	
Mass NH_3 (lb)	1.86E-06	1.71E-06	1.53E-06	
PPM NH_3 (flue gas)	1.62	1.43	1.37	1.5
PPM NH_3 @ O_2 Correction	1.32	1.17	1.12	1.2
lb/hr NH_3	3.34	2.94	2.82	3.0

NH3 EQUATIONS:

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

Client	**PG&E Colusa**		Parameter	**NH3**
Location	**Colusa**		Fuel	**GAS**
Unit	**GT Unit 2**		Data By	**John Peterson**
Test Number	1-NH3-Max-2	2-NH3-Max-2	3-NH3-Max-2	AVERAGE
Reference Temperature, F	68	68	68	
Test Date	11/20/2014	11/20/2014	11/20/2014	
Test Method	BAAQMD ST-1B	BAAQMD ST-1B	BAAQMD ST-1B	
Sample Train	6WCS	6WCS	6WCS	
Meter Calibration Factor	0.994	0.994	0.994	
Stack Area (sq ft)	n/a	n/a	n/a	
Sample Time (Min)	32	32	32	
Barometric Pressure (in Hg)	29.99	29.99	29.99	
Start Time	7:55	8:45	9:35	
Stop Time	8:33	9:23	10:13	
Meter Volume (acf)	26.120	25.150	26.040	
Meter Temperature (F)	67.9	70.9	67.0	
Meter Pressure (iwg)	2.00	2.00	2.00	
Liquid Volume (ml)	59.6	64.2	63.8	
Stack O_2 (%)	11.43	11.37	11.65	
Standard Sample Volume (SCF)	26.155	25.041	26.118	
Moisture Fraction	0.097	0.108	0.103	
Stack Flow Rate (dscfm, 68 °F)	756,674	756,197	756,795	
Gas Constant (ft-lbf/lb-mole-R)	1545.33	1545.33	1545.33	
Standard Pressure (lbf/ft^2)	2116.224	2116.224	2116.224	
Molecular Weight NH_3 (lb/lb-mole)	17	17	17	
Specific Molar Volume (ft^3/lb-mole)	385.34	385.34	385.34	
Mass Conversion (lb/ug)	2.20E-09	2.20E-09	2.20E-09	
O_2 Correction Factor (%)	15	15	15	
Mass NH_3 (Ug)	831.00	833.40	874.20	
Mass NH_3 (mg)	0.831	0.833	0.874	
Mass NH_3 (lb)	1.83E-06	1.84E-06	1.93E-06	
PPM NH_3 (flue gas)	1.59	1.66	1.67	1.6
PPM NH_3 @ O_2 Correction	0.99	1.03	1.07	1.0
lb/hr NH_3	3.18	3.33	3.35	3.3

NH3 EQUATIONS:

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

Delta

Formaldehyde Test Summary

Client/Location	PG&E Colusa		Reference Temp (F)	68
Unit/Condition	CT1 Max Load		Fuel	Nat Gas
Sample Location	Stack		Data By	JP
Test No	1-Form-1	2-Form-1	3-Form-1	Average
Date	11/18/2014	11/18/2014	11/18/2014	*
Start/Stop Time	1040-1240	1403-1603	1615-1815	*
Bar Press (in Hg)	29.99	29.99	29.99	*
Test Method	CARB 430	CARB 430	CARB 430	*
Sample Time (Min)	120	120	120	*
Sample Train	16LFM	16LFM	16LFM	*
Meter Cal Factor	1.0000	1.0000	1.0000	*
Unit Load (MW)	173.2	171.1	172.1	172.1
Fuel Flow rate (hscfh)	21,760.2	21,627.0	21,635.8	21,674.3
Fuel Flow rate (scfh)	2,176,020	2,162,700	2,163,580	2,167,433
O_2 (%)	11.6	11.6	11.6	11.6
Meter Temp (F)	59.8	67.8	65.8	64.4
Meter Press (iwg)	0.10	0.10	0.10	0.10
Meter Vol (am^3)	0.06000	0.0600	0.0600	0.0600
Meter Vol (l)	60	60	60	60.00
Sample Rate (lpm)	0.500	0.500	0.500	0.500
Std Sample Vol (SM^3)	0.0611	0.0602	0.0604	0.0606
Std Sample Vol (dscf)	2.1575	2.1248	2.1329	2.1384
Stack Flow Rate, (dscfm)	734,740	730,242	730,539	731,840
Formaldehyde Emissions				
Formaldehyde,ug	0.25	1.81	1.78	1.28
Formaldehyde,ppb	3.2	23.7	23.2	16.7
Formaldehyde,ppb @ 15% O_2	2.0	15.0	14.7	10.6
Formaldehyde,lb/hr	0.0111	0.0821	0.0803	0.0579
Formaldehyde,lb/MMscf of fuel	0.0051	0.0380	0.0371	0.0267

Field Blanks (one impinger and line)	(based on average sample volume)			
Formaldehyde,ug	0.100	0.100	0.100	
Formaldehyde,ppb	1.3	1.3	1.3	1.3
Blank Corrected Field Samples	(sample-average field blank)			
Formaldehyde,ppb	1.9	22.4	21.9	15.4
Formaldehyde,lb/hr	0.0066	0.0776	0.0758	0.0533
CARB Reporting Limit				
Formaldehyde,ppb			5x blank	6.5

CARB Reporting Limit is 5X average blank level if sample is less than 5X blank
Use average test volume for calculating field blanks

Trip Spike Recovery:
Formaldehyde 104%

Field Spike Recovery:
Formaldehyde 97%

Matrix Spike Recovery:
Formaldehyde 99.5%
Formaldehyde 93.8%

Trip Blank:		**ug**	
Formaldehyde	ND<	0.10	(1 impinger)

Not detected values used at value of detection limit.
Flow rate at 60 F
Use SRL for detection limit. Calculated by laboratory on a per sample basis.

Delta

Formaldehyde Test Summary

Client/Location	PG&E Colusa		Reference Temp (F)	68
Unit/Condition	CT2 Max Load		Fuel	Nat Gas
Sample Location	Stack		Data By	JP
Test No	1-Form-2	2-Form-2	3-Form-2	Average
Date	11/20/2015	11/20/2015	11/20/2015	*
Start/Stop Time	0755-0955	1000-1200	1205-1405	*
Bar Press (in Hg)	29.99	29.99	29.99	*
Test Method	CARB 430	CARB 430	CARB 430	*
Sample Time (Min)	120	120	120	*
Sample Train	16LFM	16LFM	16LFM	*
Meter Cal Factor	1.0000	1.0000	1.0000	*
Unit Load (MW)	176.8	176.9	176.8	176.8
Fuel Flow rate (hscfh)	22,407.4	22,414.1	22,426.3	22,415.9
Fuel Flow rate (scfh)	2,240,740	2,241,410	2,242,630	2,241,593
O_2 (%)	11.6	11.6	11.6	11.6
Meter Temp (F)	58.8	53.2	51.8	54.6
Meter Press (iwg)	0.10	0.10	0.10	0.10
Meter Vol (am^3)	0.06000	0.0600	0.0600	0.0600
Meter Vol (l)	60	60	60	60.00
Sample Rate (lpm)	0.500	0.500	0.500	0.500
Std Sample Vol (SM^3)	0.0612	0.0619	0.0621	0.0617
Std Sample Vol (dscf)	2.1614	2.1852	2.1912	2.1793
Stack Flow Rate, (dscfm)	756,593	756,819	757,231	756,881
Formaldehyde Emissions				
Formaldehyde,ug	1.53	10.92	1.58	4.67
Formaldehyde,ppb	19.7	139.0	20.1	59.6
Formaldehyde,ppb @ 15% O_2	12.5	88.2	12.7	37.8
Formaldehyde,lb/hr	0.0707	0.4996	0.0721	0.2141
Formaldehyde,lb/MMscf of fuel	0.0316	0.2229	0.0322	0.0955

Field Blanks (one impinger and line)	(based on average sample volume)			
Formaldehyde,ug	1.320	0.265	0.181	
Formaldehyde,ppb	16.9	3.4	2.3	7.5
Blank Corrected Field Samples	(sample-average field blank)			
Formaldehyde,ppb	12.2	131.5	12.5	52.1
Formaldehyde,lb/hr	0.0437	0.4726	0.0451	0.1871
CARB Reporting Limit				
Formaldehyde,ppb			5x blank	37.6

CARB Reporting Limit is 5X average blank level if sample is less than 5X blank
Use average test volume for calculating field blanks

Trip Spike Recovery:			
Formaldehyde		104%	
Field Spike Recovery:			
Formaldehyde		97%	
Matrix Spike Recovery:			
Formaldehyde		99.5%	
Formaldehyde		93.8%	
Trip Blank:		**ug**	
Formaldehyde	ND<	0.10	(1 impinger)

Not detected values used at value of detection limit.
Flow rate at 60 F
Use SRL for detection limit. Calculated by laboratory on a per sample basis.

Run #1

Start Time: 8:15 Stop Time: 8:53 Date: 11/18/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.860		n/a		N/A	10.00	N/A			-
	direct zero	-0.049		n/a		N/A	0.00	N/A			-
	system span	9.802	0.7	9.807	N/A	9.80	10.00	0.0	Pass	-	OK
	system zero	-0.035		-0.032		-0.03	0.00	0.0			OK
CO2	direct span	5.002		n/a		N/A	4.99	N/A			-
	direct zero	0.000		n/a		N/A	0.00	N/A			-
	system span	5.054	0.2	5.136	N/A	5.10	4.99	0.8	Pass	-	OK
	system zero	0.060		0.155		0.11	0.00	1.0			OK
NO	direct span	2.452		2.457		2.45	2.40	0.1			OK
	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.435	1.0	2.447	1.0	2.44	2.40	0.2	Pass	Pass	OK
	system zero	0.024		0.011		0.02	0.00	-0.3			OK
CO	direct span	4.680		n/a		N/A	4.88	N/A			-
	direct zero	-0.009		n/a		N/A	0.00	N/A			-
	system span	4.686	0.6	4.676	N/A	4.68	4.88	-0.1	Pass	-	OK
	system zero	0.023		0.006		0.01	0.00	-0.2			OK
NO2	direct span	3.395		3.318		3.36	3.71	-1.5			OK
	direct zero	0.013		-0.004		0.00	0.00	-0.3			OK
	system span	3.113	11.8	3.006	12.6	3.05	3.71	-2.1	Pass	Pass	OK
	system zero	0.130		0.102		0.12	0.00	-0.6			OK
Nox (7E)	direct span	2.452		2.457		2.45	2.40	0.1			OK
	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.435	1.0	2.447	1.0	2.44	2.40	0.2	Pass	Pass	OK
	system zero	0.024		0.011		0.02	0.00	-0.3			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
E	8:15	8:23	11.65	5.26	1.69	0.78	1.44
N	8:25	8:33	11.59	5.32	1.71	0.76	1.50
W	8:35	8:43	11.58	5.35	1.85	0.71	1.63
S	8:45	8:53	11.64	5.33	1.86	0.71	1.61
	Average		11.613	5.312	1.778	0.7409	1.543

Method 19

Load, NMW	177.2		
Fuel Flow, hdscfh	21706	hscfh	36176.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.70		
Stack Flow, dscf/m	740,876		740876
Stack Flow, dscf/hr	44,452,559		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.61	11.84	%
CO2 avg	5.3	5.21	%
**NOx avg	1.78	1.76	ppm
CO avg	0.74	0.76	ppm
NO avg	1.54	1.51	ppm
NO2 avg	0.24	0.25	ppm

Stack NO2 %

14	
Reference O2	15
NOx, ppmC	1.15
CO, ppmC	0.49

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.61	11.84	%
CO2 avg	5.31	5.21	%
NOx avg	1.78	1.74	ppm
CO avg	0.74	0.76	ppm
CO2 avg	5.31	5.21	%

Reference O2	15
NOx, ppmC	1.14
CO, ppmC	0.49

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.84	11.7	0.1	1.2%
CO2	5.21			
NOx	1.74	1.50	0.24	14.0%
NOx, ppmC	1.14	1.00	0.14	11.9%
Nox, lb/hr	9.25	8.2	1.05	11.4%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.760	0.3	0.5	60.5%
CO,ppmC	0.50	0.20	0.3	59.6%
CO, lb/hr	2.45	1.00	1.5	59.3%
CO, lb/MMBtu	0.0011			

*Corrected for drift and system bias.
**NOx AVG corr. = (NO AVG corr +NO2AVG corr.)

Run #2

Start Time: 9:05 Stop Time: 9:43 Date: 11/18/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.860		n/a		N/A	10.00	N/A			-
	direct zero	-0.049		n/a		N/A	0.00	N/A			-
	system span	9.807	0.7	9.788	N/A	9.80	10.00	-0.1	Pass	-	OK
	system zero	-0.032		-0.032		-0.03	0.00	0.0			OK
CO2	direct span	5.002		n/a		N/A	4.99	N/A			-
	direct zero	0.000		n/a		N/A	0.00	N/A			-
	system span	5.136	0.4	5.200	N/A	5.17	4.99	0.6	Pass	-	OK
	system zero	0.155		0.230		0.19	0.00	0.8			OK
NO	direct span	2.452		2.457		2.45	2.40	0.1			OK
	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.447	0.0	2.480	-0.9	2.46	2.40	0.7	Pass	Pass	OK
	system zero	0.011		-0.003		0.00	0.00	-0.3			OK
CO	direct span	4.680		n/a		N/A	4.88	N/A			-
	direct zero	-0.009		n/a		N/A	0.00	N/A			-
	system span	4.676	0.4	4.525	N/A	4.60	4.88	-1.5	Pass	-	OK
	system zero	0.006		-0.010		0.00	0.00	-0.2			OK
NO2	direct span	3.395		3.318		3.36	3.71	-1.5			OK
	direct zero	0.013		-0.004		0.00	0.00	-0.3			OK
	system span	3.006	14.1	3.053	8.2	3.03	3.71	0.9	Pass	Pass	OK
	system zero	0.102		0.003		0.05	0.00	-2.0			OK
Nox (7E)	direct span	2.452		2.457		2.45	2.40	0.1			OK
	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.447	0.0	2.480	-0.9	2.46	2.40	0.7	Pass	Pass	OK
	system zero	0.011		-0.003		0.00	0.00	-0.3			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
S	9:05	9:13	11.67	5.32	1.82	0.72	1.58
W	9:15	9:23	11.61	5.38	1.74	0.70	1.54
N	9:25	9:33	11.59	5.40	1.79	0.73	1.59
E	9:35	9:43	11.63	5.39	1.72	0.72	1.50
	Average		11.625	5.371	1.770	0.719	1.553

Method 19

Load, NMW	177.2		
Fuel Flow, hdscfh	21706	hscfh	36176.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.80		
Stack Flow, dscf/m	749,017		749017.5
Stack Flow, dscf/hr	44,941,048		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.63	11.86	%
CO2 avg	5.4	5.19	%
NOx avg	1.77	1.75	ppm
CO avg	0.72	0.76	ppm
NO avg	1.55	1.51	ppm
NO2 avg	0.22	0.24	ppm

Stack NO2 %

14	
Reference O2	15
NOx, ppmC	1.14
CO, ppmC	0.50

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.63	11.86	%
CO2 avg	5.37	5.19	%
NOx avg	1.77	1.72	ppm
CO avg	0.72	0.765	ppm
CO2 avg	5.37	5.19	%

Reference O2	15
NOx, ppmC	1.12
CO, ppmC	0.499

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.859	11.80	0.1	0.5%
CO2	5.19			
NOx	1.72	1.50	0.22	13.0%
NOx, ppmC	1.12	1.00	0.1	11.1%
Nox, lb/hr	9.25	8.5	0.7	8.1%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.765	0.3	0.5	60.8%
CO,ppmC	0.499	0.20	0.3	59.9%
CO, lb/hr	2.50	1.00	1.5	60.0%
CO, lb/MMBtu	0.0011			

*Corrected for drift and system bias.

Run #3

Start Time: 9:55 **Stop Time:** 10:33 **Date:** 11/18/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.860		9.751		9.81	10.00	-0.5			OK
	direct zero	-0.049		-0.068		-0.06	0.00	-0.1			OK
	system span	9.788	0.9	9.790	0.0	9.79	10.00	0.0	Pass	Pass	OK
	system zero	-0.032		-0.030		-0.03	0.00	0.0			OK
CO2	direct span	5.002		5.233		5.12	4.99	2.3			OK
	direct zero	0.000		0.248		0.12	0.00	2.5			OK
	system span	5.200	0.6	5.237	0.6	5.22	4.99	0.4	Pass	Pass	OK
	system zero	0.230		0.280		0.26	0.00	0.5			OK
NO	direct span	2.452		2.457		2.45	2.40	0.1			OK
	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.480	-2.0	2.450	0.5	2.47	2.40	-0.6	Pass	Pass	OK
	system zero	-0.003		0.002		0.00	0.00	0.1			OK
CO	direct span	4.680		4.588		4.63	4.88	-0.9			OK
	direct zero	-0.009		-0.068		-0.04	0.00	-0.6			OK
	system span	4.525	3.3	4.568	1.0	4.55	4.88	0.4	Pass	Pass	OK
	system zero	-0.010		-0.042		-0.03	0.00	-0.3			OK
NO2	direct span	3.395		3.318		3.36	3.71	-1.5			OK
	direct zero	0.013		-0.004		0.00	0.00	-0.3			OK
	system span	3.053	9.8	3.078	7.3	3.07	3.71	0.5	Pass	Pass	OK
	system zero	0.003		0.000		0.00	0.00	-0.1			OK
	direct span	2.452		2.457		2.45	2.40	0.1			OK
Nox (7E)	direct zero	0.017		-0.004		0.01	0.00	-0.4			OK
	system span	2.480	-2.0	2.450	0.5	2.47	2.40	-0.6	Pass	Pass	OK
	system zero	-0.003		0.002		0.00	0.00	0.1			OK

Test Data

Averaging Period, min. 2

#REF!

Start	End	O2	CO2	NOx	CO	NO
9:55	10:03	11.57	5.42	1.65	0.68	1.44
10:05	10:13	11.53	5.46	1.73	0.69	1.53
10:15	10:23	11.52	5.48	1.85	0.62	1.62
10:25	10:33	11.59	5.44	1.89	0.62	1.64
Average		11.551	5.449	1.779	0.655	1.558

Method 19

Load, NMW	177.2		
Fuel Flow, hdscfh	21706	hscfh	36176.667
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.80		
Stack Flow, dscf/m	749,017		749017.47
Stack Flow, dscf/hr	44,941,048		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.55	11.79	%
CO2 avg	5.4	5.22	%
NOx avg	1.78	1.75	ppm
CO avg	0.65	0.73	ppm
NO avg	1.56	1.52	ppm
NO2 avg	0.22	0.24	ppm

Stack NO2 % 13.5

Reference O2	15
NOx, ppmC	1.14
CO, ppmC	0.47

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.55	11.79	%
CO2 avg	5.45	5.22	%
NOx avg	1.78	1.73	ppm
CO avg	0.65	0.73	ppm
CO2 avg	5.45	5.22	%

Reference O2	15
NOx, ppmC	1.12
CO, ppmC	0.47

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.79	11.80	0.0	-0.1%
CO2	5.22			
NOx	1.73	1.5	0.2	13.4%
NOx, ppmC	1.12	1.0	0.1	10.9%
Nox, lb/hr	9.29	8.2	1.1	11.8%
Nox, lb/MMBT	0.004	0.004	0	0.0%
CO	0.73	0.3	0.4	58.7%
CO,ppmC	0.47	0.2	0.3	57.5%
CO, lb/hr	2.37	1	1.4	57.8%
CO, lb/MMBtu	0.0011			

Run #4

Start Time: 10:52 **Stop Time:** 11:15 **Date:** 11/18/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		n/a		N/A	10.00	N/A			-
	direct zero	-0.068		n/a		N/A	0.00	N/A			-
	system span	9.790	0.0	9.790	N/A	9.79	10.00	0.0	Pass	-	OK
	system zero	-0.030		-0.025		-0.03	0.00	0.0			OK
CO2	direct span	5.233		n/a		N/A	4.99	N/A			-
	direct zero	0.248		n/a		N/A	0.00	N/A			-
	system span	5.237	0.6	5.281	N/A	5.26	4.99	0.4	Pass	-	OK
	system zero	0.280		0.342		0.31	0.00	0.6			OK
NO	direct span	2.457		n/a		N/A	2.40	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.450	0.5	2.435	N/A	2.44	2.40	-0.3	Pass	-	OK
	system zero	0.002		0.004		0.00	0.00	0.0			OK
CO	direct span	4.588		n/a		N/A	4.9	N/A			-
	direct zero	-0.068		n/a		N/A	0.0	N/A			-
	system span	4.568	1.0	4.584	N/A	4.58	4.88	0.2	Pass	-	OK
	system zero	-0.042		-0.067		-0.05	0.00	-0.3			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	10:52	10:59	11.51	5.49	1.91	0.61
E	10:59	11:06	11.49	5.52	1.60	0.59
E	11:08	11:15	11.41	5.58	1.69	0.54
	Average		11.469	5.529	1.730	0.580

Method 19

Load, NMW	174.0		
Fuel Flow, Cdscfh	21815	hscfh	36358.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.60		
Stack Flow, dscf/m	736,597		736596.7
Stack Flow, dscf/hr	44,195,804		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.47	11.71	%
CO2 avg	5.5	5.26	%
NOx avg	1.73	1.70	ppm
CO avg	0.6	0.67	ppm
CO2 avg	5.53	5.26	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.71	11.60	0.1	0.9%
CO2	5.26			
NOx	1.70	1.5	0.2	11.7%
NOx, ppmC	1.091	1.0	0.1	8.3%
Nox, lb/hr	8.97	8.2	0.8	8.5%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.67	0.2	0.47	70.1%
CO,ppmC	0.430	0.1	0.33	76.7%
CO, lb/hr	2.15	0.6	1.5	72.1%

*Corrected for drift and system bias.

Run #5

Start Time: 11:23 **Stop Time:** 11:46 **Date:** 11/18/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		n/a		N/A	10.00	N/A			-
	direct zero	-0.068		n/a		N/A	0.00	N/A			-
	system span	9.790	0.0	9.788	N/A	9.79	10.00	0.0	Pass	-	OK
	system zero	-0.025		-0.027		-0.03	0.00	0.0			OK
CO2	direct span	5.233		n/a		N/A	4.99	N/A			-
	direct zero	0.248		n/a		N/A	0.00	N/A			-
	system span	5.281	0.9	5.301	N/A	5.29	4.99	0.2	Pass	-	OK
	system zero	0.342		0.370		0.36	0.00	0.3			OK
NO	direct span	2.457		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.435	1.2	2.429	N/A	2.43	2.40	-0.1	Pass	-	OK
	system zero	0.004		0.006		0.01	0.00	0.0			OK
CO	direct span	4.588		n/a		N/A	4.9	N/A			-
	direct zero	-0.068		n/a		N/A	0.0	N/A			-
	system span	4.584	0.1	4.587	N/A	4.59	4.88	0.0	Pass	-	OK
	system zero	-0.067		-0.072		-0.07	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	11:23	11:30	11.41	5.57	1.58	0.54
W	11:30	11:37	11.38	5.61	1.85	0.52
E	11:39	11:46	11.48	5.56	1.80	0.57
	Average		11.424	5.579	1.743	0.547

Method 19

Load, NMW		173.0		
Fuel Flow, Cdscfh	13062.84	21771	hscfh	36285.67
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		735,118		735117.8
Stack Flow, dscf/hr		44,107,069		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.42	11.67	%
CO2 avg	5.6	5.28	%
NOx avg	1.74	1.72	ppm
CO avg	0.5	0.65	ppm
CO2 avg	5.58	5.28	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.665	11.600	0.1	0.6%
CO2	5.281			
NOx	1.719	1.500	0.2	12.7%
NOx, ppmC	1.098	1.000	0.1	8.9%
Nox, lb/hr	9.051	8.100	1.0	10.5%
Nox, lb/MMBTU	0.004	0.004	0.000	0.0%
CO	0.65	0.200	0.4	69.0%
CO,ppmC	0.413	0.100	0.3	75.8%
CO, lb/hr	2.070	0.500	1.6	75.8%

*Corrected for drift and system bias.

Run #6

Start Time: 11:54 **Stop Time:** 12:17 **Date:** 11/18/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		n/a		N/A	10.00	N/A			-
	direct zero	-0.068		n/a		N/A	0.00	N/A			-
	system span	9.788	0.041	9.813	N/A	9.80	10.00	0.1	Pass	-	OK
	system zero	-0.027		-0.029		-0.03	0.00	0.0			OK
CO2	direct span	5.233		n/a		N/A	4.99	N/A			-
	direct zero	0.248		n/a		N/A	0.00	N/A			-
	system span	5.301	1.083	5.314	N/A	5.31	4.99	0.1	Pass	-	OK
	system zero	0.370		0.399		0.38	0.00	0.3			OK
NO	direct span	2.457		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.429	1.544	2.422	N/A	2.43	2.40	-0.1	Pass	-	OK
	system zero	0.006		-0.008		0.00	0.00	-0.3			OK
CO	direct span	4.588		n/a		N/A	4.9	N/A			-
	direct zero	-0.068		n/a		N/A	0.0	N/A			-
	system span	4.587	-0.064	4.574	N/A	4.58	4.88	-0.1	Pass	-	OK
	system zero	-0.072		-0.077		-0.07	0.00	-0.1			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	11:54	11:55	11.38	5.60	1.81	0.52
W	12:01	12:08	11.40	5.60	1.67	0.51
E	12:10	12:17	11.50	5.57	1.58	0.56
	Average		11.426	5.589	1.689	0.527

Method 19

Load, NMW		172.5		
Fuel Flow, Cdscfh	13031.64	21719	hscfh	36199
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		733,362		733362
Stack Flow, dscf/hr		44,001,721		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.43	11.65	%
CO2 avg	5.6	5.28	%
NOx avg	1.69	1.67	ppm
CO avg	0.5	0.63	ppm
CO2 avg	5.59	5.28	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.65	11.6	0.1	0.5%
CO2	5.28			
NOx	1.67	1.5	0.2	10.2%
NOx, ppmC	1.066	1.0	0.1	6.2%
Nox, lb/hr	8.78	8.2	0.6	6.6%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.63	0.2	0.4	68.3%
CO,ppmC	0.402	0.1	0.3	75.1%
CO, lb/hr	2.02	0.5	1.5	75.2%

*Corrected for drift and system bias.

Run #7

Start Time: 12:24 **Stop Time:** 12:47 **Date:** 11/18/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		n/a		N/A	10.00	N/A			-
	direct zero	-0.068		n/a		N/A	0.00	N/A			-
	system span	9.813	-0.234	9.889	N/A	9.85	10.00	0.4	Pass	-	OK
	system zero	-0.029		-0.033		-0.03	0.00	0.0			OK
CO2	direct span	5.233		n/a		N/A	4.99	N/A			-
	direct zero	0.248		n/a		N/A	0.00	N/A			-
	system span	5.314	1.404	5.297	N/A	5.31	4.99	-0 2	Pass	-	OK
	system zero	0.399		0.370		0.38	0.00	-0.3			OK
NO	direct span	2.457		n/a		N/A	2 40	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.422	1.260	2.429	N/A	2.43	2.40	0.1	Pass	-	OK
	system zero	-0.008		-0.003		-0.01	0.00	0.1			OK
CO	direct span	4.588		n/a		N/A	4 9	N/A			-
	direct zero	-0.068		n/a		N/A	0.0	N/A			-
	system span	4.574	0.107	4.571	N/A	4.57	4.88	0.0	Pass	-	OK
	system zero	-0.077		-0.084		-0.08	0.00	-0.1			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	12:24	12:31	11.58	5.57	1.81	0.54
E	12:31	12:38	11.55	5.60	1.60	0.49
W	12:40	12:47	11.62	5.56	1.97	0.55
	Average		11.586	5.578	1.795	0.525

Method 19

Load, NMW		172.3		
Fuel Flow, Cdscfh	13024.56	21708	hscfh	36179.33
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		732,964		732963.6
Stack Flow, dscf/hr		43,977,815		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.59	11.76	%
CO2 avg	5.6	5 27	%
NOx avg	1.80	1.78	ppm
CO avg	0.5	0.64	ppm
CO2 avg	5.58	5.27	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.76	11.6	0.2	1.3%
CO2	5 27			
NOx	1.78	1.5	0 3	15.6%
NOx, ppmC	1.147	1.0	0.1	12.8%
Nox, lb/hr	9.33	8 1	1.2	13.2%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.64	0.2	0.4	68.5%
CO,ppmC	0.410	0.1	0.3	75.6%
CO, lb/hr	2.03	0.6	1.4	70.5%

*Corrected for drift and system bias.

Run #8

Start Time: 12:54 **Stop Time:** 13:18 **Date:** 11/18/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		n/a		N/A	10.00	N/A			-
	direct zero	-0.068		n/a		N/A	0.00	N/A			-
	system span	9.889	-1.049	9.877	N/A	9.88	10.00	-0.1	Pass	-	OK
	system zero	-0.033		-0.034		-0.03	0.00	0.0			OK
CO2	direct span	5.233		n/a		N/A	4.99	N/A			-
	direct zero	0.248		n/a		N/A	0.00	N/A			-
	system span	5.297	1.163	5.283	N/A	5.29	4.99	-0.1	Pass	-	OK
	system zero	0.370		0.373		0.37	0.00	0.0			OK
NO	direct span	2.457		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.429	1.178	2.425	N/A	2.43	2.40	-0.1	Pass	-	OK
	system zero	-0.003		-0.010		-0.01	0.00	-0.1			OK
CO	direct span	4.588		n/a		N/A	4.9	N/A			-
	direct zero	-0.068		n/a		N/A	0.0	N/A			-
	system span	4.571	0.021	4.572	N/A	4.57	4.88	0.0	Pass	-	OK
	system zero	-0.084		-0.086		-0.09	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	12:54	13:01	11.56	5.56	1.86	0.54
E	13:01	13:08	11.53	5.59	1.59	0.50
W	13:11	13:18	11.62	5.54	1.61	0.52
	Average		11.569	5.562	1.686	0.521

Method 19

Load, NMW		171.9		
Fuel Flow, Cdscfh	13032.18	21720	hscfh	36200.5
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		733,392		733392.4
Stack Flow, dscf/hr		44,003,545		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.57	11.70	%
CO2 avg	5.6	5.27	%
NOx avg	1.69	1.67	ppm
CO avg	0.5	0.64	ppm
CO2 avg	5.56	5.27	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.70	11.6	0.1	0.9%
CO2	5.27			
NOx	1.67	1.5	0.2	10.1%
NOx, ppmC	1.07	1.0	0.1	6.5%
Nox, lb/hr	8.77	8.1	0.7	7.6%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.64	0.2	0.4	68.5%
CO,ppmC	0.408	0.1	0.3	75.5%
CO, lb/hr	2.03	0.5	1.5	75.4%

Run #9

Start Time: 13:26 **Stop Time:** 13:50 **Date:** 11/18/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.751		9.898		9.825	10.00	0.7			OK
	direct zero	-0.068		-0.060		-0.064	0.00	0.0			OK
	system span	9.877	-0.937	9.862	-0.040	9.870	10.00	-0.1	Pass	Pass	OK
	system zero	-0.034		-0.100		-0.067	0.00	-0.3			OK
CO2	direct span	5.233		5.294		5.264	4.99	0.6			OK
	direct zero	0.248		0.349		0.299	0.00	1.0			OK
	system span	5.283	1.505	5.313	0.283	5.298	4.99	0.3	Pass	Pass	OK
	system zero	0.373		0.382		0.378	0.00	0.1			OK
NO	direct span	2.457		2.421		2.439	2.4	-0.7			OK
	direct zero	-0.004		-0.014		-0.009	0.0	-0.2			OK
	system span	2.425	1.056	2.433	-0.329	2.429	2.40	0.2	Pass	Pass	OK
	system zero	-0.010		-0.010		-0.010	0.00	0.0			OK
CO	direct span	4.588		4.552		4.570	4.9	-0.4			OK
	direct zero	-0.068		-0.096		-0.082	0.0	-0.3			OK
	system span	4.572	-0.043	4.568	-0.194	4.570	4.88	0.0	Pass	Pass	OK
	system zero	-0.086		-0.089		-0.088	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	13:26	13:33	11.51	5.58	1.58	0.53
W	13:33	13:40	11.50	5.61	1.79	0.48
E	13:43	13:50	11.59	5.57	1.84	0.53
	Average		11.531	5.586	1.739	0.516

Method 19

Total heat input, mmbtu/hr		171.7		
Fuel Flow, Cdscfh	13028.76	21715	hscfh	36191
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		733,200		733199.9
Stack Flow, dscf/hr		43,991,997		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.53	11.67	%
CO2 avg	5.6	5.28	%
NOx avg	1.74	1.72	ppm
CO avg	0.5	0.63	ppm
CO2 avg	5.59	5.28	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.67	11.6	0.1	0.6%
CO2	5.28			
NOx	1.72	1.5	0.2	12.8%
NOx, ppmC	1.10	1.0	0.1	9.1%
Nox, lb/hr	9.04	8.2	0.8	9.3%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.63	0.1	0.5	84.2%
CO,ppmC	0.404	0.1	0.3	75.2%
CO, lb/hr	2.02	0.4	1.6	80.2%

*Corrected for drift and system bias.

Run #1

Start Time: 7:55 Stop Time: 8:33 Date: 11/20/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.975		n/a		N/A	10.00	N/A			-
	direct zero	-0.052		n/a		N/A	0.00	N/A			-
	system span	9.937	0.7	10.413	N/A	10.18	10.00	2.4	Pass	-	OK
	system zero	-0.020		-0.044		-0.03	0.00	-0.1			OK
CO2	direct span	5.043		n/a		N/A	4.99	N/A			-
	direct zero	0.030		n/a		N/A	0.00	N/A			-
	system span	5.054	0.6	5.169	N/A	5.11	4.99	1.1	Pass	-	OK
	system zero	0.071		0.089		0.08	0.00	0.2			OK
NO	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.474	-1.5	2.484	0.1	2.48	2.40	0.2	Pass	Pass	OK
	system zero	-0.002		-0.013		-0.01	0.00	-0.2			OK
CO	direct span	4.725		n/a		N/A	4.88	N/A			-
	direct zero	-0.003		n/a		N/A	0.00	N/A			-
	system span	4.757	-0.2	4.746	N/A	4.75	4.88	-0.1	Pass	-	OK
	system zero	0.019		0.012		0.02	0.00	-0.1			OK
NO2	direct span	3.405		3.359		3.38	3.71	-0.9			OK
	direct zero	-0.013		-0.004		-0.01	0.00	0.2			OK
	system span	3.146	8.9	3.182	5.4	3.16	3.71	0.7	Pass	Pass	OK
	system zero	0.031		0.000		0.02	0.00	-0.6			OK
Nox (7E)	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.474	-1.5	2.484	0.1	2.48	2.40	0.2	Pass	Pass	OK
	system zero	-0.002		-0.013		-0.01	0.00	-0.2			OK

Test Data

Averaging Period, min 2

	Start	End	O2	CO2	NOx	CO	NO
N	7:55	8:03	11.62	5.37	2.01	0.35	1.73
E	8:05	8:13	11.69	5.33	1.94	0.33	1.65
S	8:15	8:23	11.62	5.38	1.98	0.35	1.36
W	8:25	8:33	11.62	5.36	1.94	0.30	1.66
	Average		11.636	5.361	1.867	0.3337	1.600

Method 19

Load, NMW	177.3		
Fuel Flow, hdscfh	22410	hscfh	37349.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.60		
Stack Flow, dscf/m	756,674		756673.6
Stack Flow, dscf/hr	45,400,415		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.64	11.43	%
CO2 avg	5.4	5.24	%
**NOx avg	1.87	1.83	ppm
CO avg	0.33	0.33	ppm
NO avg	1.60	1.55	ppm
NO2 avg	0.27	0.28	ppm

Stack NO2 % 15

Reference O2	15
NOx, ppmC	1.14
CO, ppmC	0.20

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.64	11.43	%
CO2 avg	5.36	5.24	%
NOx avg	1.87	1.81	ppm
CO avg	0.33	0.33	ppm
CO2 avg	5.36	5.24	%

Reference O2	15
NOx, ppmC	1.13
CO, ppmC	0.20

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.43	11.6	-0.2	-1.5%
CO2	5.24			
NOx	1.81	1.70	0.11	6.0%
NOx, ppmC	1.13	1.10	0.03	2.4%
Nox, lb/hr	9.81	8.8	1.01	10.3%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.328	-0.5	0.8	252.5%
CO,ppmC	0.20	0.00	0.2	100.0%
CO, lb/hr	1.08	-1.60	2.7	247.9%
CO, lb/MMBtu	0.0005			

*Corrected for drift and system bias.
**NOx AVG corr. = (NO AVG corr +NO2AVG corr.)

Run #2

Start Time: 8:45 Stop Time: 9:23 Date: 11/20/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.975		n/a		N/A	10.00	N/A			-
	direct zero	-0.052		n/a		N/A	0.00	N/A			-
	system span	10.413	-4.3	9.960	N/A	10.16	10.00	-2.3	Pass	-	OK
	system zero	-0.044		-0.042		-0.04	0.00	0.0			OK
CO2	direct span	5.043		n/a		N/A	4.99	N/A			-
	direct zero	0.030		n/a		N/A	0.00	N/A			-
	system span	5.169	-1.3	5.104	N/A	5.14	4.99	-0.6	Pass	-	OK
	system zero	0.089		0.120		0.10	0.00	0.3			OK
NO	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.484	-2.4	2.485	0.2	2.48	2.40	0.0	Pass	Pass	OK
	system zero	-0.013		-0.011		-0.01	0.00	0.0			OK
CO	direct span	4.725		n/a		N/A	4.88	N/A			-
	direct zero	-0.003		n/a		N/A	0.00	N/A			-
	system span	4.746	-0.1	4.734	N/A	4.74	4.88	-0.1	Pass	-	OK
	system zero	0.012		-0.002		0.01	0.00	-0.1			OK
NO2	direct span	3.405		3.359		3.38	3.71	-0.9			OK
	direct zero	-0.013		-0.004		-0.01	0.00	0.2			OK
	system span	3.182	6.9	3.153	6.1	3.17	3.71	-0.6	Pass	Pass	OK
	system zero	0.000		-0.005		0.00	0.00	-0.1			OK
Nox (7E)	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.484	-2.4	2.485	0.2	2.48	2.40	0.0	Pass	Pass	OK
	system zero	-0.013		-0.011		-0.01	0.00	0.0			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
W	8:45	8:53	11.58	5.40	1.83	0.31	1.55
S	8:55	9:03	11.55	5.43	1.82	0.34	1.55
E	9:05	9:13	11.61	5.41	1.70	0.29	1.43
N	9:15	9:23	11.61	5.41	2.07	0.31	1.76
	Average		11.586	5.409	1.855	0.312	1.574

Method 19

Load, NMW	176.7		
Fuel Flow, hdscfh	22396	hscfh	37326.17
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.60		
Stack Flow, dscf/m	756,197		756197.5
Stack Flow, dscf/hr	45,371,850		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.59	11.37	%
CO2 avg	5.4	5.26	%
NOx avg	1.85	1.82	ppm
CO avg	0.31	0.32	ppm
NO avg	1.57	1.52	ppm
NO2 avg	0.28	0.29	ppm

Stack NO2 %

16	
Reference O2	15
NOx, ppmC	1.12
CO, ppmC	0.20

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.59	11.37	%
CO2 avg	5.41	5.26	%
NOx avg	1.85	1.79	ppm
CO avg	0.31	0.316	ppm
CO2 avg	5.41	5.26	%

Reference O2	15
NOx, ppmC	1.11
CO, ppmC	0.196

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.368	11.60	-0.2	-2.0%
CO2	5.26			
NOx	1.79	1.70	0.09	5.3%
NOx, ppmC	1.11	1.10	0.0	1.0%
Nox, lb/hr	9.72	8.9	0.8	8.4%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.316	-0.5	0.8	258.0%
CO,ppmC	0.196	0.00	0.2	100.0%
CO, lb/hr	1.04	-1.60	2.6	253.4%
CO, lb/MMBtu	0.0004			

*Corrected for drift and system bias.

Run #3

Start Time: 9:35 Stop Time: 10:13 Date: 11/20/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.975		9.876		9.93	10.00	-0.5			OK
	direct zero	-0.052		-0.062		-0.06	0.00	-0.1			OK
	system span	9.960	0.2	9.871	0.1	9.92	10.00	-0.4	Pass	Pass	OK
	system zero	-0.042		-0.059		-0.05	0.00	-0.1			OK
CO2	direct span	5.043		5.097		5.07	4.99	0.5			OK
	direct zero	0.030		0.121		0.08	0.00	0.9			OK
	system span	5.104	0.6	5.116	0.4	5.11	4.99	0.1	Pass	Pass	OK
	system zero	0.120		0.161		0.14	0.00	0.4			OK
NO	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.485	-2.3	2.486	0.5	2.49	2.40	0.0	Pass	Pass	OK
	system zero	-0.011		-0.002		-0.01	0.00	0.2			OK
CO	direct span	4.725		4.712		4.72	4.88	-0.1			OK
	direct zero	-0.003		-0.032		-0.02	0.00	-0.3			OK
	system span	4.734	-0.2	4.725	0.3	4.73	4.88	-0.1	Pass	Pass	OK
	system zero	-0.002		-0.006		0.00	0.00	0.0			OK
NO2	direct span	3.405		3.359		3.38	3.71	-0.9			OK
	direct zero	-0.013		-0.004		-0.01	0.00	0.2			OK
	system span	3.153	7.6	3.171	5.8	3.16	3.71	0.4	Pass	Pass	OK
	system zero	-0.005		0.002		0.00	0.00	0.1			OK
Nox (7E)	direct span	2.432		2.496		2.46	2.40	1.3			OK
	direct zero	-0.007		-0.004		-0.01	0.00	0.1			OK
	system span	2.485	-2.3	2.486	0.5	2.49	2.40	0.0	Pass	Pass	OK
	system zero	-0.011		-0.002		-0.01	0.00	0.2			OK

Test Data

Averaging Period, min 2

	Start	End	O2	CO2	NOx	CO	NO
N	9:35	9:43	11.55	5.44	1.63	0.31	1.39
E	9:45	9:53	11.58	5.44	1.94	0.28	1.65
S	9:55	10:03	11.54	5.47	2.02	0.31	1.75
W	10:05	10:13	11.58	5.45	1.67	0.26	1.42
	Average		11.560	5.448	1.816	0.289	1.551

Method 19

Load, NMW	176.4		
Fuel Flow, hdscfh	22413	hscfh	37355.667
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.60		
Stack Flow, dscf/m	756,795		756795.14
Stack Flow, dscf/hr	45,407,708		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.56	11.65	%
CO2 avg	5.4	5.33	%
NOx avg	1.82	1.77	ppm
CO avg	0.29	0.30	ppm
NO avg	1.55	1.50	ppm
NO2 avg	0.26	0.27	ppm

Stack NO2 % 15.5

Reference O2	15
NOx, ppmC	1.13
CO, ppmC	0.19

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.56	11.65	%
CO2 avg	5.45	5.33	%
NOx avg	1.82	1.75	ppm
CO avg	0.29	0.30	ppm
CO2 avg	5.45	5.33	%

Reference O2	15
NOx, ppmC	1.12
CO, ppmC	0.19

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.65	11.60	0.1	0.4%
CO2	5.33			
NOx	1.75	1.6	0.2	8.8%
NOx, ppmC	1.12	1.0	0.1	10.7%
Nox, lb/hr	9.51	8.6	0.9	9.6%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.30	-0.5	0.8	265.5%
CO,ppmC	0.19	0	0.2	100.0%
CO, lb/hr	1.00	-1.6	2.6	260.5%
CO, lb/MMBtu	0.0004			

Run #4

Start Time: 10:32 Stop Time: 10:55 Date: 11/20/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		n/a		N/A	10.00	N/A			-
	direct zero	-0.062		n/a		N/A	0.00	N/A			-
	system span	9.871	0.1	9.866	N/A	9.87	10.00	0.0	Pass	-	OK
	system zero	-0.059		-0.062		-0.06	0.00	0.0			OK
CO2	direct span	5.097		n/a		N/A	4.99	N/A			-
	direct zero	0.121		n/a		N/A	0.00	N/A			-
	system span	5.116	0.4	5.127	N/A	5.12	4.99	0.1	Pass	-	OK
	system zero	0.161		0.180		0.17	0.00	0.2			OK
NO	direct span	2.496		n/a		N/A	2.40	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.486	0.5	2.460	N/A	2.47	2.40	-0.5	Pass	-	OK
	system zero	-0.002		-0.011		-0.01	0.00	-0.2			OK
CO	direct span	4.712		n/a		N/A	4.9	N/A			-
	direct zero	-0.032		n/a		N/A	0.0	N/A			-
	system span	4.725	0.3	4.727	N/A	4.73	4.88	0.0	Pass	-	OK
	system zero	-0.006		-0.007		-0.01	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	10:32	10:39	11.53	5.46	1.72	0.25
E	10:39	10:46	11.59	5.45	1.92	0.25
E	10:48	10:55	11.59	5.46	2.00	0.26
	Average		11.569	5.457	1.882	0.252

Method 19

Load, NMW	176.9		
Fuel Flow, Cdscfh	22548	hscfh	37580
HHV, BTU/scf	1035		
F Factor	8710		
O2	11.60		
Stack Flow, dscf/m	761,340		761339.9
Stack Flow, dscf/hr	45,680,397		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.57	11.71	%
CO2 avg	5.5	5.33	%
NOx avg	1.88	1.83	ppm
CO avg	0.3	0.27	ppm
CO2 avg	5.46	5.33	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.71	11.60	0.1	1.0%
CO2	5.33			
NOx	1.83	1.6	0.2	12.5%
NOx, ppmC	1.174	1.0	0.2	14.8%
Nox, lb/hr	9.97	8.7	1.3	12.7%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.27	-0.5	0.77	287.2%
CO,ppmC	0.171	0.0	0.17	100.0%
CO, lb/hr	0.89	-1.6	2.5	280.5%

*Corrected for drift and system bias.

Run #5

Start Time: 11:05 **Stop Time:** 11:28 **Date:** 11/20/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		n/a		N/A	10.00	N/A			-
	direct zero	-0.062		n/a		N/A	0.00	N/A			-
	system span	9.866	0.1	9.869	N/A	9.87	10.00	0.0	Pass	-	OK
	system zero	-0.062		-0.051		-0.06	0.00	0.1			OK
CO2	direct span	5.097		n/a		N/A	4.99	N/A			-
	direct zero	0.121		n/a		N/A	0.00	N/A			-
	system span	5.127	0.6	5.126	N/A	5.13	4.99	0.0	Pass	-	OK
	system zero	0.180		0.185		0.18	0.00	0.1			OK
NO	direct span	2.496		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.460	1.2	2.451	N/A	2.46	2.40	-0.2	Pass	-	OK
	system zero	-0.011		-0.010		-0.01	0.00	0.0			OK
CO	direct span	4.712		n/a		N/A	4.9	N/A			-
	direct zero	-0.032		n/a		N/A	0.0	N/A			-
	system span	4.727	0.2	4.727	N/A	4.73	4.88	0.0	Pass	-	OK
	system zero	-0.007		-0.011		-0.01	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	11:05	11:12	11.55	5.46	2.00	0.27
W	11:12	11:19	11.56	5.47	1.82	0.25
E	11:21	11:28	11.59	5.46	1.70	0.27
	Average		11.563	5.464	1.840	0.262

Method 19

Load, NMW		177.0		
Fuel Flow, Cdscfh	13534.38	22557	hscfh	37595.5
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		761,654		761654
Stack Flow, dscf/hr		45,699,238		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.56	11.71	%
CO2 avg	5.5	5.33	%
NOx avg	1.84	1.80	ppm
CO avg	0.3	0.28	ppm
CO2 avg	5.46	5.33	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.709	11.600	0.1	0.9%
CO2	5.330			
NOx	1.801	1.700	0.1	5.6%
NOx, ppmC	1.156	1.100	0.1	4.8%
Nox, lb/hr	9.824	9.100	0.7	7.4%
Nox, lb/MMBTU	0.004	0.004	0.000	0.0%
CO	0.28	-0.500	0.8	279.3%
CO,ppmC	0.179	0.000	0.2	100.0%
CO, lb/hr	0.926	-1.600	2.5	272.7%

*Corrected for drift and system bias.

Run #6

Start Time: 11:35 **Stop Time:** 11:58 **Date:** 11/20/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		n/a		N/A	10.00	N/A			-
	direct zero	-0.062		n/a		N/A	0.00	N/A			-
	system span	9.869	0.181	9.857	N/A	9.86	10.00	-0.1	Pass	-	OK
	system zero	-0.051		-0.048		-0.05	0.00	0.0			OK
CO2	direct span	5.097		n/a		N/A	4.99	N/A			-
	direct zero	0.121		n/a		N/A	0.00	N/A			-
	system span	5.126	0.703	5.107	N/A	5.12	4.99	-0.2	Pass	-	OK
	system zero	0.185		0.183		0.18	0.00	0.0			OK
NO	direct span	2.496		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.451	1.560	2.452	N/A	2.45	2.40	0.0	Pass	-	OK
	system zero	-0.010		-0.004		-0.01	0.00	0.1			OK
CO	direct span	4.712		n/a		N/A	4.9	N/A			-
	direct zero	-0.032		n/a		N/A	0.0	N/A			-
	system span	4.727	0.126	4.729	N/A	4.73	4.88	0.0	Pass	-	OK
	system zero	-0.011		-0.011		-0.01	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	11:35	11:36	11.55	5.46	1.67	0.27
W	11:42	11:49	11.55	5.47	2.02	0.25
E	11:51	11:58	11.57	5.45	1.91	0.27
	Average		11.557	5.459	1.867	0.264

Method 19

Load, NMW		176.9		
Fuel Flow, Cdscfh	13534.8	22558	hscfh	37596.67
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		761,678		761677.6
Stack Flow, dscf/hr		45,700,656		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.56	11.71	%
CO2 avg	5.5	5.34	%
NOx avg	1.87	1.83	ppm
CO avg	0.3	0.28	ppm
CO2 avg	5.46	5.34	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.71	11.6	0.1	0.9%
CO2	5.34			
NOx	1.83	1.7	0.1	7.1%
NOx, ppmC	1.174	1.1	0.1	6.3%
Nox, lb/hr	9.98	8.8	1.2	11.8%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.28	-0.5	0.8	276.8%
CO,ppmC	0.182	0.0	0.2	100.0%
CO, lb/hr	0.94	-1.5	2.5	270.4%

*Corrected for drift and system bias.

Run #7

Start Time: 12:05 **Stop Time:** 12:28 **Date:** 11/20/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		n/a		N/A	10.00	N/A			-
	direct zero	-0.062		n/a		N/A	0.00	N/A			-
	system span	9.857	0.332	9.856	N/A	9.86	10.00	0.0	Pass	-	OK
	system zero	-0.048		-0.046		-0.05	0.00	0.0			OK
CO2	direct span	5.097		n/a		N/A	4.99	N/A			-
	direct zero	0.121		n/a		N/A	0.00	N/A			-
	system span	5.107	1.045	5.134	N/A	5.12	4.99	0.3	Pass	-	OK
	system zero	0.183		0.206		0.19	0.00	0.2			OK
NO	direct span	2.496		n/a		N/A	2.40	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.452	1.760	2.448	N/A	2.45	2.40	-0.1	Pass	-	OK
	system zero	-0.004		-0.019		-0.01	0.00	-0.3			OK
CO	direct span	4.712		n/a		N/A	4.9	N/A			-
	direct zero	-0.032		n/a		N/A	0.0	N/A			-
	system span	4.729	0.084	4.732	N/A	4.73	4.88	0.0	Pass	-	OK
	system zero	-0.011		-0.016		-0.01	0.00	-0.1			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	12:05	12:12	11.55	5.46	2.12	0.27
E	12:12	12:19	11.57	5.46	1.44	0.27
W	12:21	12:28	11.57	5.47	2.06	0.27
	Average		11.562	5.462	1.870	0.268

Method 19

Load, NMW		176.9		
Fuel Flow, Cdscfh	13538.76	22565	hscfh	37607.67
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		761,900		761900.5
Stack Flow, dscf/hr		45,714,027		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.56	11.72	%
CO2 avg	5.5	5.34	%
NOx avg	1.87	1.83	ppm
CO avg	0.3	0.29	ppm
CO2 avg	5.46	5.34	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.72	11.6	0.1	1.0%
CO2	5.34			
NOx	1.83	1.6	0.2	12.8%
NOx, ppmC	1.180	1.0	0.2	15.3%
Nox, lb/hr	10.01	8.5	1.5	15.1%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.29	-0.5	0.8	272.7%
CO,ppmC	0.186	0.0	0.2	100.0%
CO, lb/hr	0.96	-1.6	2.6	266.3%

*Corrected for drift and system bias.

Run #8

Start Time: 12:49 **Stop Time:** 13:12 **Date:** 11/20/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		n/a		N/A	10.00	N/A			-
	direct zero	-0.062		n/a		N/A	0.00	N/A			-
	system span	9.856	0.362	9.855	N/A	9.86	10.00	0.0	Pass	-	OK
	system zero	-0.046		-0.056		-0.05	0.00	-0.1			OK
CO2	direct span	5.097		n/a		N/A	4.99	N/A			-
	direct zero	0.121		n/a		N/A	0.00	N/A			-
	system span	5.134	0.965	5.121	N/A	5.13	4.99	-0.1	Pass	-	OK
	system zero	0.206		0.192		0.20	0.00	-0.1			OK
NO	direct span	2.496		n/a		N/A	2.4	N/A			-
	direct zero	-0.004		n/a		N/A	0.0	N/A			-
	system span	2.448	1.320	2.449	N/A	2.45	2.40	0.0	Pass	-	OK
	system zero	-0.019		-0.020		-0.02	0.00	0.0			OK
CO	direct span	4.712		n/a		N/A	4.9	N/A			-
	direct zero	-0.032		n/a		N/A	0.0	N/A			-
	system span	4.732	-0.084	4.726	N/A	4.73	4.88	-0.1	Pass	-	OK
	system zero	-0.016		-0.009		-0.01	0.00	0.1			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
E	12:49	12:56	11.53	5.47	2.07	0.27
E	12:56	13:03	11.55	5.47	1.68	0.25
W	13:05	13:12	11.57	5.46	1.91	0.26
	Average		11.549	5.466	1.886	0.259

Method 19

Load, NMW		177.0		
Fuel Flow, Cdscfh	13530.6	22551	hscfh	37585
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		761,441		761441.2
Stack Flow, dscf/hr		45,686,475		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.55	11.71	%
CO2 avg	5.5	5.33	%
NOx avg	1.89	1.85	ppm
CO avg	0.3	0.28	ppm
CO2 avg	5.47	5.33	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.71	11.6	0.1	0.9%
CO2	5.33			
NOx	1.85	1.7	0.2	8.2%
NOx, ppmC	1.19	1.1	0.1	7.5%
Nox, lb/hr	10.11	8.9	1.2	11.9%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.28	-0.5	0.8	278.7%
CO,ppmC	0.180	0.0	0.2	100.0%
CO, lb/hr	0.93	-1.6	2.5	272.3%

Run #9

Start Time: 13:23 **Stop Time:** 13:45 **Date:** 11/20/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.876		9.825		9.851	10.00	-0.3			OK
	direct zero	-0.062		-0.082		-0.072	0.00	-0.1			OK
	system span	9.855	0.272	9.837	0.131	9.846	10.00	-0.1	Pass	Pass	OK
	system zero	-0.056		-0.057		-0.057	0.00	0.0			OK
CO2	direct span	5.097		5.098		5.098	4.99	0.0			OK
	direct zero	0.121		0.155		0.138	0.00	0.3			OK
	system span	5.121	0.945	5.117	0.506	5.119	4.99	0.0	Pass	Pass	OK
	system zero	0.192		0.199		0.196	0.00	0.1			OK
	direct span	2.496		2.459		2.478	2.4	-0.7			OK
NO	direct zero	-0.004		-0.019		-0.012	0.0	-0.3			OK
	system span	2.449	1.240	2.450	0.565	2.450	2.40	0.0	Pass	Pass	OK
	system zero	-0.020		-0.014		-0.017	0.00	0.1			OK
	direct span	4.712		4.715		4.714	4.9	0.0			OK
CO	direct zero	-0.032		-0.026		-0.029	0.0	0.1			OK
	system span	4.726	0.190	4.714	0.337	4.720	4.88	-0.1	Pass	Pass	OK
	system zero	-0.009		-0.011		-0.010	0.00	0.0			OK

Test Data

Averaging Period, min. 7

	Start	End	O2	CO2	NOx	CO
W	13:23	13:30	11.53	5.46	1.68	0.26
W	13:30	13:37	11.53	5.47	2.06	0.25
E	13:38	13:45	12.14	5.10	1.50	0.24
	Average		11.730	5.343	1.748	0.252

Method 19

Total heat input, mmbtu/hr		176.7		
Fuel Flow, Cdscfh	13532.4	22554	hscfh	37590
HHV, BTU/scf		1035		
F Factor		8710		
O2		11.60		
Stack Flow, dscf/m		761,543		761542.5
Stack Flow, dscf/hr		45,692,552		

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	11.73	11.90	%
CO2 avg	5.3	5.22	%
NOx avg	1.75	1.72	ppm
CO avg	0.3	0.27	ppm
CO2 avg	5.34	5.22	%

RATA Results

	RM	CEMS	Diff	% Diff
O2	11.90	11.6	0.3	2.5%
CO2	5.22			
NOx	1.72	1.7	0.0	1.0%
NOx, ppmC	1.13	1.0	0.1	11.2%
Nox, lb/hr	9.37	8.7	0.7	7.1%
Nox, lb/MMB	0.004	0.004	0.000	0.0%
CO	0.27	-0.5	0.8	285.0%
CO,ppmC	0.177	0.0	0.2	100.0%
CO, lb/hr	0.90	-1.6	2.5	278.3%

*Corrected for drift and system bias.

Run #1

Start Time: 11:40 **Stop Time:** 12:20 **Date:** 11/17/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.947		n/a		N/A	10.00	N/A			-
	direct zero	0.012		n/a		N/A	0.00	N/A			-
	system span	10.097	-0.9	10.138	N/A	10 12	10.00	0 2	Pass	-	OK
	system zero	0.076		0.037		0.06	0.00	-0.2			OK
CO2	direct span	5.062		n/a		N/A	4.99	N/A			-
	direct zero	0.040		n/a		N/A	0.00	N/A			-
	system span	5.136	1.6	5.097	N/A	5.12	4.99	-0.4	Pass	-	OK
	system zero	0.194		0.153		0.17	0.00	-0.4			OK
NO	direct span	2.492		2.483		2.49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0.00	-0.3			OK
	system span	2.475	0.2	2.493	0.0	2 48	2.40	0.4	Pass	Pass	OK
	system zero	-0.013		-0.007		-0.01	0.00	0.1			OK
NO2	direct span	3.423		3.307		3 37	3.71	-2 3			OK
	direct zero	0.017		-0.011		0 00	0.00	-0.6			OK
	system span	2.976	12.8	2.981	10.5	2 98	3.71	0.1	Pass	Pass	OK
	system zero	0.007		0.012		0 01	0.00	0.1			OK
Nox (7E)	direct span	2.492		2.483		2 49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0.00	-0.3			OK
	system span	2.475	0.2	2.493	0.0	2 48	2.40	0.4	Pass	Pass	OK
	system zero	-0.013		-0.007		-0.01	0.00	0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
S	11:40	11:48	14.17	4.15	1.09	0 93
W	11:51	11:59	14.20	4.13	0.87	0.78
N	12:02	12:10	14.20	4.12	0.85	0.79
E	12:12	12:20	14.18	4.12	0.98	0.90
	Average		14.189	4.126	0.945	0.850

Method 19

Load, NMW	105.4		
Fuel Flow, hdscfh	12175	hscfh	20292
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.90		
Stack Flow, dscf/m	546,175		546174.7
Stack Flow, dscf/hr	32,770,484		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.19	14.05	%
CO2 avg	4.1	3.99	%
**NOx avg	0.95	0.93	ppm
NO avg	0.85	0.83	ppm
NO2 avg	0.09	0.10	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14 19	14.05	%
CO2 avg	4.13	3.99	%
NOx avg	0.95	0.92	ppm
CO2 avg	4.13	3 99	%

Stack NO2 %

11	
Reference O2	15
NOx, ppmC	0.80
NOx, lb/hr	3.64

Reference O2	15
NOx, ppmC	0.79
NOx, lb/hr	3.60

*Corrected for drift and system bias.
**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 12:40 Stop Time: 13:18 Date: 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.947		n/a		N/A	10.00	N/A			-
	direct zero	0.012		n/a		N/A	0.00	N/A			-
	system span	10.138	-1.7	10.105	N/A	10 12	10.00	-0.2	Pass	-	OK
	system zero	0.037		0.032		0.03	0.00	0.0			OK
CO2	direct span	5.062		n/a		N/A	4.99	N/A			-
	direct zero	0.040		n/a		N/A	0.00	N/A			-
	system span	5.097	1.6	5.105	N/A	5.10	4.99	0 1	Pass	-	OK
	system zero	0.153		0.160		0.16	0.00	0.1			OK
NO	direct span	2.492		2.483		2.49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0.00	-0.3			OK
	system span	2.493	-0.2	2.499	0.0	2.50	2.40	0.1	Pass	Pass	OK
	system zero	-0.007		0.000		0.00	0.00	0.1			OK
NO2	direct span	3.423		3.307		3.37	3.71	-2.3			OK
	direct zero	0.017		-0.011		0.00	0.00	-0.6			OK
	system span	2.981	12.8	2.903	13.4	2.94	3.71	-1.6	Pass	Pass	OK
	system zero	0.012		0.030		0.02	0.00	0.4			OK
Nox (7E)	direct span	2.492		2.483		2.49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0 00	-0.3			OK
	system span	2.493	-0.2	2.499	0.0	2.50	2.40	0.1	Pass	Pass	OK
	system zero	-0.007		0.000		0.00	0.00	0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
E	12:40	12:48	14.14	4.12	0.99	0.88
N	12:50	12:58	14.15	4.12	0.88	0.79
W	13:00	13:08	14.14	4.12	0.88	0.80
S	13:10	13:18	14.14	4.12	1.04	0.94
	Average		14.142	4.119	0.947	0.851

Method 19

Load, NMW	105.1		
Fuel Flow, hdscfh	12144	hscfh	20239.5
HHV, BTU/scf	1035		
F Factor	8710		
O2	14.00		
Stack Flow, dscf/m	552,657		552656.8
Stack Flow, dscf/hr	33,159,405		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.14	13.99	%
CO2 avg	4.1	4.00	%
NOx avg	0.95	0.93	ppm
NO avg	0.85	0.82	ppm
NO2 avg	0.10	0.11	ppm

Stack NO2 % 11

Reference O2	15
NOx, ppmC	0.79
NOx, lb/hr	3.66

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.14	13.99	%
CO2 avg	4 12	4.00	%
NOx avg	0.95	0.91	ppm
CO2 avg	4.12	4 00	%

Reference O2	15
NOx, ppmC	0.78
NOx, lb/hr	3.61

*Corrected for drift and system bias.

Run #3

Start Time: 13:29 Stop Time: 14:07 Date: 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.947		10.120		10.03	10.00	0.9			OK
	direct zero	0.012		0.013		0.01	0.00	0.0			OK
	system span	10.105	-1.4	10.137	-0.1	10.12	10.00	0.2	Pass	Pass	OK
	system zero	0.032		0.024		0.03	0.00	0.0			OK
CO2	direct span	5.062		5.094		5.08	4.99	0.3			OK
	direct zero	0.040		0.122		0.08	0.00	0.8			OK
	system span	5.105	1.5	5.106	0.8	5.11	4.99	0.0	Pass	Pass	OK
	system zero	0.160		0.173		0.17	0.00	0.1			OK
NO	direct span	2.492		2.483		2.49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0.00	-0.3			OK
	system span	2.499	-0.2	2.487	0.4	2.49	2.40	-0.2	Pass	Pass	OK
	system zero	0.000		-0.002		0.00	0.00	0.0			OK
NO2	direct span	3.423		3.307		3.37	3.71	-2.3			OK
	direct zero	0.017		-0.011		0.00	0.00	-0.6			OK
	system span	2.903	15.6	2.889	13.7	2.90	3.71	-0.3	Pass	Pass	OK
	system zero	0.030		0.026		0.03	0.00	-0.1			OK
Nox (7E)	direct span	2.492		2.483		2.49	2.40	-0.2			OK
	direct zero	-0.002		-0.016		-0.01	0.00	-0.3			OK
	system span	2.499	-0.2	2.487	0.4	2.49	2.40	-0.2	Pass	Pass	OK
	system zero	0.000		-0.002		0.00	0.00	0.0			OK

Test Data

Averaging Period, min. 2

#REF!

Start	End	O2	CO2	NOx	NO
13:29	13:37	14.14	4.12	1.05	0.95
13:39	13:47	14.17	4.12	0.89	0.82
13:49	13:57	14.15	4.13	0.90	0.82
13:59	14:07	14.18	4.13	1.01	0.94
Average		14.162	4.128	0.964	0.882

Method 19

Load, NMW	105.2		
Fuel Flow, hdscfh	12147	hscfh	20245.5
HHV, BTU/scf	1035		
F Factor	8710		
O2	14.00		
Stack Flow, dscf/m	552,821		552820.59
Stack Flow, dscf/hr	33,169,235		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.16	14.00	%
CO2 avg	4.1	4.00	%
NOx avg	0.96	0.94	ppm
NO avg	0.88	0.85	ppm
NO2 avg	0.08	0.09	ppm

Stack NO2 % 9.8

Reference O2	15
NOx, ppmC	0.81
NOx, lb/hr	3.73

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.16	14.00	%
CO2 avg	4.13	4.00	%
NOx avg	0.96	0.93	ppm
CO2 avg	4.13	4.00	%

Reference O2	15
NOx, ppmC	0.79
NOx, lb/hr	3.68

Run #1

Start Time: 14:25 **Stop Time:** 15:03 **Date:** 11/17/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.120		n/a		N/A	10.00	N/A			-
	direct zero	0.013		n/a		N/A	0.00	N/A			-
	system span	10.137	-0.1	10.124	N/A	10.13	10.00	-0.1	Pass	-	OK
	system zero	0.024		0.008		0.02	0.00	-0.1			OK
CO2	direct span	5.094		n/a		N/A	4.99	N/A			-
	direct zero	0.122		n/a		N/A	0.00	N/A			-
	system span	5.106	0.8	5.084	N/A	5.10	4.99	-0.2	Pass	-	OK
	system zero	0.173		0.156		0.16	0.00	-0.2			OK
NO	direct span	2.483		2.473		2.48	2.40	-0.2			OK
	direct zero	-0.016		-0.034		-0.03	0.00	-0.4			OK
	system span	2.487	0.4	2.487	0.6	2.49	2.40	0.0	Pass	Pass	OK
	system zero	-0.002		-0.005		0.00	0.00	-0.1			OK
NO2	direct span	3.307		3.321		3.31	3.71	0.3			OK
	direct zero	-0.011		-0.030		-0.02	0.00	-0.4			OK
	system span	2.889	13.7	2.826	15.8	2.86	3.71	-1.3	Pass	Fail	OK
	system zero	0.026		0.003		0.01	0.00	-0.5			OK
Nox (7E)	direct span	2.483		2.473		2.48	2.40	-0.2			OK
	direct zero	-0.016		-0.034		-0.03	0.00	-0.4			OK
	system span	2.487	0.4	2.487	0.6	2.49	2.40	0.0	Pass	Pass	OK
	system zero	-0.002		-0.005		0.00	0.00	-0.1			OK

Test Data

Averaging Period, min 2

	Start	End	O2	CO2	NOx	NO
E	14:25	14:33	14.10	4.13	1.20	1.10
N	14:35	14:43	14.12	4.12	1.11	1.03
W	14:45	14:53	14.11	4.12	1.12	1.04
S	14:55	15:03	14.13	4.11	1.24	1.15
	Average		14.114	4.120	1.167	1.082

Method 19

Load, NMW	140.5		
Fuel Flow, hdscfh	14764	hscfh	24606.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.90		
Stack Flow, dscf/m	662,307		662307.3
Stack Flow, dscf/hr	39,738,438		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.11	13.94	%
CO2 avg	4.1	4.00	%
**NOx avg	1.17	1.14	ppm
NO avg	1.08	1.05	ppm
NO2 avg	0.09	0.09	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.11	13.94	%
CO2 avg	4.12	4.00	%
NOx avg	1.17	1.13	ppm
CO2 avg	4.12	4.00	%

Stack NO2 % 8

Reference O2	15
NOx, ppmC	0.97
NOx, lb/hr	5.41

Reference O2	15
NOx, ppmC	0.96
NOx, lb/hr	5.35

*Corrected for drift and system bias
**NOx AVG corr = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 15:15 **Stop Time:** 15:53 **Date:** 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.120		n/a		N/A	10.00	N/A			-
	direct zero	0.013		n/a		N/A	0.00	N/A			-
	system span	10.124	-0.1	10.123	N/A	10.12	10.00	0.0	Pass	-	OK
	system zero	0.008		0.023		0.02	0.00	0.1			OK
CO2	direct span	5.094		n/a		N/A	4.99	N/A			-
	direct zero	0.122		n/a		N/A	0.00	N/A			-
	system span	5.084	0.9	5.105	N/A	5.09	4.99	0.2	Pass	-	OK
	system zero	0.156		0.169		0.16	0.00	0.1			OK
NO	direct span	2.473		2.473		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.034		-0.03	0.00	0.0			OK
	system span	2.487	0.6	2.475	0.4	2.48	2.40	-0.2	Pass	Pass	OK
	system zero	-0.005		-0.021		-0.01	0.00	-0.3			OK
NO2	direct span	3.321		3.321		3.32	3.71	0.0			OK
	direct zero	-0.030		-0.030		-0.03	0.00	0.0			OK
	system span	2.826	15.8	3.084	7.4	2.96	3.71	5.2	Fail	Pass	Fail
	system zero	0.003		-0.020		-0.01	0.00	-0.5			OK
Nox (7E)	direct span	2.473		2.473		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.034		-0.03	0.00	0.0			OK
	system span	2.487	0.6	2.475	0.4	2.48	2.40	-0.2	Pass	Pass	OK
	system zero	-0.005		-0.021		-0.01	0.00	-0.3			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
S	15:15	15:23	14.11	4.12	1.25	1.15
W	15:25	15:33	14.14	4.12	1.15	1.02
N	15:35	15:43	14.12	4.12	1.10	0.99
E	15:45	15:53	14.12	4.13	1.16	1.05
	Average		14.123	4.124	1.166	1.049

Method 19

Load, NMW	140.4		
Fuel Flow, hdscfh	14709	hscfh	24514.67
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.90		
Stack Flow, dscf/m	659,831		659831
Stack Flow, dscf/hr	39,589,863		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.12	13.96	%
CO2 avg	4.1	4.01	%
NOx avg	1.17	1.15	ppm
NO avg	1.05	1.02	ppm
NO2 avg	0.12	0.13	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.12	13.96	%
CO2 avg	4.12	4.01	%
NOx avg	1.17	1.13	ppm
CO2 avg	4.12	4.01	%

Stack NO2 %

11	
Reference O2	15
NOx, ppmC	0.97
NOx, lb/hr	5.42

Reference O2	15
NOx, ppmC	0.96
NOx, lb/hr	5.36

*Corrected for drift and system bias.

Run #3

Start Time: 16:02 Stop Time: 16:40 Date: 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.120		10.101		10.11	10.00	-0.1			OK
	direct zero	0.013		-0.019		0.00	0.00	-0.2			OK
	system span	10.123	0.1	10.093	0.5	10.11	10.00	-0.1	Pass	Pass	OK
	system zero	0.023		0.024		0.02	0.00	0.0			OK
CO2	direct span	5.094		5.100		5.10	4.99	0.1			OK
	direct zero	0.122		0.130		0.13	0.00	0.1			OK
	system span	5.105	0.7	5.112	0.7	5.11	4.99	0.1	Pass	Pass	OK
	system zero	0.169		0.176		0.17	0.00	0.1			OK
NO	direct span	2.473		2.473		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.034		-0.03	0.00	0.0			OK
	system span	2.475	0.4	2.451	1.2	2.46	2.40	-0.5	Pass	Pass	OK
	system zero	-0.021		-0.026		-0.02	0.00	-0.1			OK
NO2	direct span	3.321		3.321		3.32	3.71	0.0			OK
	direct zero	-0.030		-0.030		-0.03	0.00	0.0			OK
	system span	3.084	7.4	2.975	10.7	3.03	3.71	-2.2	Pass	Pass	OK
	system zero	-0.020		-0.016		-0.02	0.00	0.1			OK
Nox (7E)	direct span	2.473		2.473		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.034		-0.03	0.00	0.0			OK
	system span	2.475	0.4	2.451	1.2	2.46	2.40	-0.5	Pass	Pass	OK
	system zero	-0.021		-0.026		-0.02	0.00	-0.1			OK

Test Data

Averaging Period, min. 2

#REF!

Start	End	O2	CO2	NOx	NO
16:02	16:10	14.10	4.13	1.17	1.06
16:12	16:20	14.10	4.13	1.10	1.00
16:22	16:30	14.12	4.14	1.12	1.02
16:32	16:40	14.11	4.14	1.23	1.10
Average		14.106	4.136	1.156	1.046

Method 19

Load, NMW	140.2		
Fuel Flow, hdscfh	14889	hscfh	24482.333
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.90		
Stack Flow, dscf/m	658,961		658960.77
Stack Flow, dscf/hr	39,537,646		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.11	13.96	%
CO2 avg	4.1	4.01	%
NOx avg	1.16	1.15	ppm
NO avg	1.05	1.03	ppm
NO2 avg	0.11	0.11	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	14.11	13.96	%
CO2 avg	4.14	4.01	%
NOx avg	1.16	1.14	ppm
CO2 avg	4.14	4.01	%

Stack NO2 % 10.0

Reference O2	15
NOx, ppmC	0.98
NOx, lb/hr	5.42

Reference O2	15
NOx, ppmC	0.97
NOx, lb/hr	5.37

Run #1

Start Time: 16:56 **Stop Time:** 17:38 **Date:** 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.101		n/a		N/A	10.00	N/A			-
	direct zero	-0.019		n/a		N/A	0.00	N/A			-
	system span	10.093	0.5	10.051	N/A	10.07	10.00	-0.2	Pass	-	OK
	system zero	0.024		0.017		0.02	0.00	0.0			OK
CO2	direct span	5.100		n/a		N/A	4.99	N/A			-
	direct zero	0.130		n/a		N/A	0.00	N/A			-
	system span	5.112	0.7	5.111	N/A	5.11	4.99	0.0	Pass	-	OK
	system zero	0.176		0.171		0.17	0.00	0.0			OK
NO	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.451	1.2	2.459	0.7	2.46	2.40	0.2	Pass	Pass	OK
	system zero	-0.026		-0.021		-0.02	0.00	0.1			OK
CO	direct span	4.643		n/a		N/A	4.88	N/A			-
	direct zero	0.027		n/a		N/A	0.00	N/A			-
	system span	4.561	-0.2	4.540	N/A	4.55	4.88	-0.2	Pass	-	OK
	system zero	-0.065		-0.076		-0.07	0.00	-0.1			OK
NO2	direct span	3.321		3.247		3.28	3.71	-1.5			OK
	direct zero	-0.030		0.011		-0.01	0.00	0.8			OK
	system span	2.975	10.7	3.049	5.6	3.01	3.71	1.5	Pass	Pass	OK
	system zero	-0.016		-0.007		-0.01	0.00	0.2			OK
Nox (7E)	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.451	1.2	2.459	0.7	2.46	2.40	0.2	Pass	Pass	OK
	system zero	-0.026		-0.021		-0.02	0.00	0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
S	16:56	17:04	13.81	4.26	1.43	0.12	1.29
W	17:10	17:18	13.82	4.26	1.31	0.11	1.19
N	17:20	17:28	13.83	4.26	1.28	0.12	1.16
E	17:30	17:38	13.83	4.25	1.32	0.11	1.17
	Average		13.823	4.259	1.336	0.1141	1.204

Method 19

Load, NMW	177.5		
Fuel Flow, hdscfh	17686	hscfh	29476.5
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.70		
Stack Flow, dscf/m	771,344		771344.2
Stack Flow, dscf/hr	46,280,651		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	CONCENTRATION *corrected	
O2 avg	13.82	13.73	%
CO2 avg	4.3	4.13	%
**NOx avg	1.34	1.33	ppm
CO avg	0.11	0.19	ppm
NO avg	1.20	1.19	ppm
NO2 avg	0.13	0.14	ppm

Stack NO2 %	10	
	Reference O2	15
	NOx, ppmC	1.09
	CO, ppmC	0.16

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	CONCENTRATION *corrected	
O2 avg	13.82	13.73	%
CO2 avg	4.26	4.13	%
NOx avg	1.34	1.32	ppm
CO avg	0.11	0.19	ppm
CO2 avg	4.26	4.13	%

Reference O2	15
NOx, ppmC	1.08
CO, ppmC	0.16

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.73	13.7	0.0	0.2%
CO2	4.13			
NOx	1.32	1.10	0.22	16.4%
NOx, ppmC	1.08	0.90	0.18	16.9%
Nox, lb/hr	7.27	6	1.27	17.5%
Nox, lb/MMBTU	0.004	0.003	0.001	25.0%
CO	0.195	-0.3	0.5	253.9%
CO,ppmC	0.16	0.00	0.2	100.0%
CO, lb/hr	0.66	-0.90	1.5	237.3%

*Corrected for drift and system bias
**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 17:48 Stop Time: 18:26 Date: 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.101		n/a		N/A	10.00	N/A			-
	direct zero	-0.019		n/a		N/A	0.00	N/A			-
	system span	10.051	0.8	10.033	N/A	10.04	10.00	-0.1	Pass	-	OK
	system zero	0.017		0.017		0.02	0.00	0.0			OK
CO2	direct span	5.100		n/a		N/A	4.99	N/A			-
	direct zero	0.130		n/a		N/A	0.00	N/A			-
	system span	5.111	0.6	5.091	N/A	5.10	4.99	-0.2	Pass	-	OK
	system zero	0.171		0.146		0.16	0.00	-0.3			OK
NO	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.459	1.1	2.464	0.2	2.46	2.40	0.1	Pass	Pass	OK
	system zero	-0.021		-0.028		-0.02	0.00	-0.1			OK
CO	direct span	4.643		n/a		N/A	4.88	N/A			-
	direct zero	0.027		n/a		N/A	0.00	N/A			-
	system span	4.540	0.0	4.537	N/A	4.54	4.88	0.0	Pass	-	OK
	system zero	-0.076		-0.088		-0.08	0.00	-0.1			OK
NO2	direct span	3.321		3.247		3.28	3.71	-1.5			OK
	direct zero	-0.030		0.011		-0.01	0.00	0.8			OK
	system span	3.049	8.8	3.065	5.5	3.05	3.71	0.3	Pass	Pass	OK
	system zero	-0.007		0.007		0.00	0.00	0.3			OK
Nox (7E)	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.459	1.1	2.464	0.2	2.46	2.40	0.1	Pass	Pass	OK
	system zero	-0.021		-0.028		-0.02	0.00	-0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
E	17:48	17:56	13.83	4.25	1.33	0.11	1.18
N	17:58	18:06	13.84	4.23	1.26	0.11	1.14
W	18:08	18:16	13.81	4.24	1.30	0.10	1.16
S	18:18	18:26	13.80	4.24	1.39	0.09	1.23
	Average		13.819	4.239	1.320	0.101	1.178

Method 19

Load, NMW	177.6		
Fuel Flow, hdscfh	17691	hscfh	29484.83
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.70		
Stack Flow, dscf/m	771,562		771562.3
Stack Flow, dscf/hr	46,293,735		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.82	13.77	%
CO2 avg	4.2	4.12	%
NOx avg	1.32	1.31	ppm
CO avg	0.10	0.19	ppm
NO avg	1.18	1.16	ppm
NO2 avg	0.14	0.15	ppm

Steck NO2 %

11	
Reference O2	15
NOx, ppmC	1.08
CO, ppmC	0.16

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.82	13.77	%
CO2 avg	4.24	4.12	%
NOx avg	1.32	1.30	ppm
CO avg	0.10	0.193	ppm
CO2 avg	4.24	4.12	%

Reference O2	15
NOx, ppmC	1.07
CO, ppmC	0.160

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.768	13.70	0.1	0.5%
CO2	4.12			
NOx	1.30	1.10	0.20	15.2%
NOx, ppmC	1.07	0.90	0.2	16.2%
Nox, lb/hr	7.17	5.5	1.7	23.3%
Nox, lb/MMBTU	0.004	0.003	0.001	25.0%
CO	0.193	-0.3	0.5	255.1%
CO,ppmC	0.160	0.00	0.2	100.0%
CO, lb/hr	0.65	-0.90	1.6	238.3%

*Corrected for drift and system bias.

Run #3

Start Time: 18:35 **Stop Time:** 19:13 **Date:** 11/17/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.101		10.010		10.06	10.00	-0.5			OK
	direct zero	-0.019		-0.036		-0.03	0.00	-0.1			OK
	system span	10.033	1.0	10.046	0.1	10.04	10.00	0.1	Pass	Pass	OK
	system zero	0.017		0.013		0.02	0.00	0.0			OK
CO2	direct span	5.100		5.127		5.11	4.99	0.3			OK
	direct zero	0.130		0.160		0.15	0.00	0.3			OK
	system span	5.091	0.5	5.127	0.6	5.11	4.99	0.4	Pass	Pass	OK
	system zero	0.146		0.192		0.17	0.00	0.5			OK
NO	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.464	0.6	2.468	0.8	2.47	2.40	0.1	Pass	Pass	OK
	system zero	-0.028		-0.008		-0.02	0.00	0.4			OK
CO	direct span	4.643		4.484		4.56	4.88	-1.6			OK
	direct zero	0.027		-0.109		-0.04	0.00	-1.4			OK
	system span	4.537	-0.2	4.527	-0.5	4.53	4.88	-0.1	Pass	Pass	OK
	system zero	-0.088		-0.088		-0.09	0.00	0.0			OK
NO2	direct span	3.321		3.247		3.28	3.71	-1.5			OK
	direct zero	-0.030		0.011		-0.01	0.00	0.8			OK
	system span	3.065	8.7	3.092	4.2	3.08	3.71	0.5	Pass	Pass	OK
	system zero	0.007		-0.007		0.00	0.00	-0.3			OK
Nox (7E)	direct span	2.473		2.474		2.47	2.40	0.0			OK
	direct zero	-0.034		-0.023		-0.03	0.00	0.2			OK
	system span	2.464	0.6	2.468	0.8	2.47	2.40	0.1	Pass	Pass	OK
	system zero	-0.028		-0.008		-0.02	0.00	0.4			OK

Test Data

Averaging Period, min. 2

#REF!

Start	End	O2	CO2	NOx	CO	NO
18:35	18:43	13.78	4.25	1.40	0.08	1.23
18:45	18:53	13.80	4.26	1.28	0.09	1.15
18:55	19:03	13.82	4.27	1.25	0.10	1.13
19:05	19:13	13.82	4.27	1.34	0.09	1.18
Average		13.806	4.264	1.318	0.090	1.174

Method 19

Load, NMW	178.0		
Fuel Flow, hdscfh	17713	hscfh	29522.167
HHV, BTU/scf	1035		
F Factor	8710		
O2	13.70		
Stack Flow, dscf/m	772,539		772539.19
Stack Flow, dscf/hr	46,352,352		

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.81	13.76	%
CO2 avg	4.3	4.14	%
NOx avg	1.32	1.30	ppm
CO avg	0.09	0.19	ppm
NO avg	1.17	1.15	ppm
NO2 avg	0.14	0.15	ppm

Stack NO2 % 11.4

Reference O2	15
NOx, ppmC	1.07
CO, ppmC	0.16

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.81	13.76	%
CO2 avg	4.26	4.14	%
NOx avg	1.32	1.29	ppm
CO avg	0.09	0.19	ppm
CO2 avg	4.26	4.14	%

Reference O2	15
NOx, ppmC	1.07
CO, ppmC	0.16

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.76	13.70	0.1	0.4%
CO2	4.14			
NOx	1.29	1.1	0.2	14.8%
NOx, ppmC	1.07	0.9	0.2	15.6%
Nox, lb/hr	7.14	5.5	1.6	23.0%
Nox, lb/MMBT	0.004	0.003	0.001	25.0%
CO	0.19	-0.2	0.4	206.3%
CO,ppmC	0.16	0	0.2	100.0%
CO, lb/hr	0.63	-0.8	1.4	226.2%

Run #1

Start Time: 7:52 **Stop Time:** 8:32 **Date:** 11/19/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.009		n/a		N/A	10.00	N/A			-
	direct zero	0.032		n/a		N/A	0.00	N/A			-
	system span	9.980	0.9	9.968	N/A	9.97	10.00	-0.1	Pass	-	OK
	system zero	0.093		0.040		0.07	0.00	-0.3			OK
CO2	direct span	5.087		n/a		N/A	4.99	N/A			-
	direct zero	0.058		n/a		N/A	0.00	N/A			-
	system span	5.107	1.6	5.141	N/A	5.12	4.99	0.3	Pass	-	OK
	system zero	0.157		0.164		0.16	0.00	0.1			OK
NO	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.434	0.7	2.424	1.5	2.43	2.40	-0.2	Pass	Pass	OK
	system zero	0.001		-0.010		0.00	0.00	-0.2			OK
NO2	direct span	3.434		3.300		3.37	3.71	-2.7			Fail
	direct zero	0.039		0.019		0.03	0.00	-0.4			OK
	system span	3.182	7.7	3.103	6.2	3.14	3.71	-1.6	Pass	Pass	OK
	system zero	0.047		0.025		0.04	0.00	-0.4			OK
Nox (7E)	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.434	0.7	2.424	1.5	2.43	2.40	-0.2	Pass	Pass	OK
	system zero	0.001		-0.010		0.00	0.00	-0.2			OK

Test Data

Averaging Period, min 2

	Start	End	O2	CO2	NOx	NO
W	7:52	8:00	13.79	4.21	1.29	1.08
S	8:02	8:10	13.79	4.22	1.38	1.17
E	8:12	8:20	13.79	4.22	1.37	1.17
N	8:22	8:32	13.79	4.23	1.22	1.07
	Average		13.790	4.220	1.317	1.122

Method 19

Load, NMW	13.8	
Fuel Flow, hdscfh	20439	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	542,383	542383
Stack Flow, dscf/hr	32,542,981	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.79	13.85	%
CO2 avg	4.2	4.08	%
**NOx avg	1.32	1.31	ppm
NO avg	1.12	1.11	ppm
NO2 avg	0.19	0.20	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.79	13.85	%
CO2 avg	4.22	4.08	%
NOx avg	1.32	1.30	ppm
CO2 avg	4.22	4.08	%

Stack NO2 %

15	
Reference O2	15
NOx, ppmC	1.10
NOx, lb/hr	5.11

Reference O2	15
NOx, ppmC	1.09
NOx, lb/hr	5.06

*Corrected for drift and system bias
**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 8:42 Stop Time: 9:20 Date: 11/19/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.009		n/a		N/A	10.00	N/A			-
	direct zero	0.032		n/a		N/A	0.00	N/A			-
	system span	9.968	0.5	9.960	N/A	9.96	10.00	0.0	Pass	-	OK
	system zero	0.040		0.030		0.04	0.00	-0.1			OK
CO2	direct span	5.087		n/a		N/A	4.99	N/A			-
	direct zero	0.058		n/a		N/A	0.00	N/A			-
	system span	5.141	1.0	5.152	N/A	5.15	4.99	0.1	Pass	-	OK
	system zero	0.164		0.179		0.17	0.00	0.2			OK
NO	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.424	0.7	2.417	1.8	2.42	2.40	-0.1	Pass	Pass	OK
	system zero	-0.010		-0.009		-0.01	0.00	0.0			OK
NO2	direct span	3.434		3.300		3.37	3.71	-2.7			Fail
	direct zero	0.039		0.019		0.03	0.00	-0.4			OK
	system span	3.103	9.3	3.138	4.1	3.12	3.71	0.7	Pass	Pass	OK
	system zero	0.025		-0.007		0.01	0.00	-0.6			OK
Nox (7E)	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.424	0.7	2.417	1.8	2.42	2.40	-0.1	Pass	Pass	OK
	system zero	-0.010		-0.009		-0.01	0.00	0.0			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
N	8:42	8:50	13.78	4.24	1.24	1.07
E	8:52	9:00	13.77	4.23	1.37	1.18
S	9:02	9:10	13.78	4.24	1.26	1.12
W	9:12	9:20	13.76	4.25	1.36	1.19
	Average		13.771	4.238	1.306	1.138

Method 19

Load, NMW	13.8	
Fuel Flow, hdscfh	20483	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	543,551	543550.6
Stack Flow, dscf/hr	32,613,038	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.77	13.83	%
CO2 avg	4.2	4.08	%
NOx avg	1.31	1.31	ppm
NO avg	1.14	1.13	ppm
NO2 avg	0.17	0.18	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.77	13.83	%
CO2 avg	4.24	4.08	%
NOx avg	1.31	1.30	ppm
CO2 avg	4.24	4.08	%

Stack NO2 % 13

Reference O2	15
NOx, ppmC	1.09
NOx, lb/hr	5.10

Reference O2	15
NOx, ppmC	1.08
NOx, lb/hr	5.06

*Corrected for drift and system bias.

Run #3

Start Time: 9:29 Stop Time: 10:07 Date: 11/19/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	10.009		9.963		9.99	10.00	-0.2			OK
	direct zero	0.032		-0.005		0.01	0.00	-0.2			OK
	system span	9.960	0.5	9.955	0.3	9.96	10.00	0.0	Pass	Pass	OK
	system zero	0.030		0.021		0.03	0.00	0.0			OK
CO2	direct span	5.087		5.157		5.12	4.99	0.7			OK
	direct zero	0.058		0.150		0.10	0.00	0.9			OK
	system span	5.152	1.1	5.173	0.7	5.16	4.99	0.2	Pass	Pass	OK
	system zero	0.179		0.200		0.19	0.00	0.2			OK
NO	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.417	1.0	2.440	1.0	2.43	2.40	0.5	Pass	Pass	OK
	system zero	-0.009		-0.006		-0.01	0.00	0.1			OK
NO2	direct span	3.434		3.300		3.37	3.71	-2.7			Fail
	direct zero	0.039		0.019		0.03	0.00	-0.4			OK
	system span	3.138	7.4	3.093	5.7	3.12	3.71	-0.9	Pass	Pass	OK
	system zero	-0.007		-0.002		0.00	0.00	0.1			OK
Nox (7E)	direct span	2.446		2.458		2.45	2.40	0.2			OK
	direct zero	-0.005		-0.013		-0.01	0.00	-0.2			OK
	system span	2.417	1.0	2.440	1.0	2.43	2.40	0.5	Pass	Pass	OK
	system zero	-0.009		-0.006		-0.01	0.00	0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
W	9:29	9:37	13.75	4.25	1.39	1.21
S	9:39	9:47	13.77	4.26	1.24	1.10
E	9:49	9:57	13.77	4.26	1.30	1.16
N	9:59	10:07	13.76	4.26	1.36	1.19
	Average		13.763	4.258	1.322	1.164

Method 19

Load, NMW	13.8	
Fuel Flow, hdscfh	20532	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	544,851	544850.93
Stack Flow, dscf/hr	32,691,056	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.3	4.08	%
NOx avg	1.32	1.32	ppm
NO avg	1.16	1.15	ppm
NO2 avg	0.16	0.17	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.26	4.08	%
NOx avg	1.32	1.31	ppm
CO2 avg	4.26	4.08	%

Stack NO2 % 12.6

Reference O2	15
NOx, ppmC	1.10
NOx, lb/hr	5.15

Reference O2	15
NOx, ppmC	1.09
NOx, lb/hr	5.11

Run #1

Start Time: 10:25 **Stop Time:** 11:03 **Date:** 11/19/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.963		n/a		N/A	10.00	N/A			-
	direct zero	-0.005		n/a		N/A	0.00	N/A			-
	system span	9.955	0.3	9.946	N/A	9.95	10.00	0.0	Pass	-	OK
	system zero	0.021		0.012		0.02	0.00	0.0			OK
CO2	direct span	5.157		n/a		N/A	4.99	N/A			-
	direct zero	0.150		n/a		N/A	0.00	N/A			-
	system span	5.173	0.7	5.174	N/A	5.17	4.99	0.0	Pass	-	OK
	system zero	0.200		0.195		0.20	0.00	-0.1			OK
NO	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.440	1.0	2.437	0.2	2.44	2.40	-0.1	Pass	Pass	OK
	system zero	-0.006		-0.001		0.00	0.00	0.1			OK
NO2	direct span	3.300		3.298		3.30	3.71	0.0			OK
	direct zero	0.019		0.123		0.07	0.00	2.1			OK
	system span	3.093	5.7	3.143	0.7	3.12	3.71	1.0	Pass	Pass	OK
	system zero	-0.002		-0.010		-0.01	0.00	-0.2			OK
Nox (7E)	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.440	1.0	2.437	0.2	2.44	2.40	-0.1	Pass	Pass	OK
	system zero	-0.006		-0.001		0.00	0.00	0.1			OK

Test Data

Averaging Period, min, 2

	Start	End	O2	CO2	NOx	NO
N	10:25	10:33	13.75	4.26	1.55	1.36
E	10:35	10:43	13.75	4.26	1.62	1.41
S	10:45	10:53	13.76	4.26	1.47	1.30
W	10:55	11:03	13.76	4.26	1.50	1.32
	Average		13.755	4.264	1.534	1.347

Method 19

Load, NMW	14858.4	
Fuel Flow, hdscfh	24764	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	657,154	657154.1
Stack Flow, dscf/hr	39,429,247	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.3	4.08	%
**NOx avg	1.53	1.52	ppm
NO avg	1.36	1.33	ppm
NO2 avg	0.19	0.19	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.26	4.08	%
NOx avg	1.53	1.51	ppm
CO2 avg	4.26	4.08	%

Stack NO2 % 13

Reference O2	15
NOx, ppmC	1.27
NOx, lb/hr	7.16

Reference O2	15
NOx, ppmC	1.26
NOx, lb/hr	7.11

*Corrected for drift and system bias
**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 11:12 **Stop Time:** 11:50 **Date:** 11/19/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.963		n/a		N/A	10.00	N/A			-
	direct zero	-0.005		n/a		N/A	0.00	N/A			-
	system span	9.946	0.3	9.947	N/A	9.95	10.00	0.0	Pass	-	OK
	system zero	0.012		0.007		0.01	0.00	0.0			OK
CO2	direct span	5.157		n/a		N/A	4.99	N/A			-
	direct zero	0.150		n/a		N/A	0.00	N/A			-
	system span	5.174	0.6	5.156	N/A	5.17	4.99	-0.2	Pass	-	OK
	system zero	0.195		0.196		0.20	0.00	0.0			OK
NO	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.437	1.3	2.440	-0.5	2.44	2.40	0.1	Pass	Pass	OK
	system zero	-0.001		-0.015		-0.01	0.00	-0.3			OK
NO2	direct span	3.300		3.298		3.30	3.71	0.0			OK
	direct zero	0.019		0.123		0.07	0.00	2.1			OK
	system span	3.143	3.9	3.151	0.5	3.15	3.71	0.2	Pass	Pass	OK
	system zero	-0.010		-0.009		-0.01	0.00	0.0			OK
Nox (7E)	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.437	1.3	2.440	-0.5	2.44	2.40	0.1	Pass	Pass	OK
	system zero	-0.001		-0.015		-0.01	0.00	-0.3			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
W	11:12	11:20	13.75	4.26	1.57	1.37
S	11:22	11:30	13.76	4.26	1.48	1.30
E	11:32	11:40	13.75	4.26	1.56	1.37
N	11:42	11:50	13.76	4.25	1.44	1.28
	Average		13.756	4.258	1.511	1.329

Method 19

Load, NMW	14832.9	
Fuel Flow, hdscfh	24722	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	656,026	656026.3
Stack Flow, dscf/hr	39,361,579	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.3	4.08	%
NOx avg	1.51	1.50	ppm
NO avg	1.33	1.31	ppm
NO2 avg	0.18	0.19	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.83	%
CO2 avg	4.26	4.08	%
NOx avg	1.51	1.49	ppm
CO2 avg	4.26	4.08	%

Stack NO2 % 13

Reference O2	15
NOx, ppmC	1.25
NOx, lb/hr	7.04

Reference O2	15
NOx, ppmC	1.24
NOx, lb/hr	7.00

*Corrected for drift and system bias

Run #3

Start Time: 11:58 Stop Time: 12:36 Date: 11/19/14

CALIBRATIONS:

		INITIAL		FINAL							
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.963		9.948		9.96	10.00	-0.1			OK
	direct zero	-0.005		-0.027		-0.02	0.00	-0.1			OK
	system span	9.947	0.3	9.957	0.1	9.95	10.00	0.1	Pass	Pass	OK
	system zero	0.007		-0.009		0.00	0.00	-0.1			OK
CO2	direct span	5.157		5.127		5.14	4.99	-0.3			OK
	direct zero	0.150		0.132		0.14	0.00	-0.2			OK
	system span	5.156	0.9	5.149	0.4	5.15	4.99	-0.1	Pass	Pass	OK
	system zero	0.196		0.176		0.19	0.00	-0.2			OK
NO	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.440	0.6	2.464	-1.2	2.45	2.40	0.5	Pass	Pass	OK
	system zero	-0.015		-0.008		-0.01	0.00	0.1			OK
NO2	direct span	3.300		3.298		3.30	3.71	0.0			OK
	direct zero	0.019		0.123		0.07	0.00	2.1			OK
	system span	3.151	3.7	3.125	1.8	3.14	3.71	-0.5	Pass	Pass	OK
	system zero	-0.009		0.006		0.00	0.00	0.3			OK
Nox (7E)	direct span	2.458		2.448		2.45	2.40	-0.2			OK
	direct zero	-0.013		0.006		0.00	0.00	0.4			OK
	system span	2.440	0.6	2.464	-1.2	2.45	2.40	0.5	Pass	Pass	OK
	system zero	-0.015		-0.008		-0.01	0.00	0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	NO
N	11:58	12:06	13.75	4.25	1.47	1.29
E	12:08	12:16	13.76	4.24	1.49	1.31
S	12:18	12:26	13.76	4.24	1.42	1.25
W	12:28	12:36	13.76	4.24	1.49	1.31
	Average		13.757	4.243	1.469	1.288

Method 19

Load, NMW	140.4	
Fuel Flow, hdscfh	24740	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.80	
Stack Flow, dscf/m	656,526	656526.09
Stack Flow, dscf/hr	39,391,565	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.82	%
CO2 avg	4.2	4.08	%
NOx avg	1.47	1.45	ppm
NO avg	1.29	1.27	ppm
NO2 avg	0.18	0.19	ppm

Stack NO2 % 12.8

Reference O2	15
NOx, ppmC	1.21
NOx, lb/hr	6.83

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.76	13.82	%
CO2 avg	4.24	4.08	%
NOx avg	1.47	1.44	ppm
CO2 avg	4.24	4.08	%

Reference O2	15
NOx, ppmC	1.20
NOx, lb/hr	6.78

Run #1

Start Time: 12:55 Stop Time: 13:33 Date: 11/19/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.948		n/a		N/A	10.00	N/A			-
	direct zero	-0.027		n/a		N/A	0.00	N/A			-
	system span	9.957	0.1	9.913	N/A	9.94	10.00	-0.2	Pass	-	OK
	system zero	-0.009		-0.002		-0.01	0.00	0.0			OK
CO2	direct span	5.127		n/a		N/A	4.99	N/A			-
	direct zero	0.132		n/a		N/A	0.00	N/A			-
	system span	5.149	0.4	5.151	N/A	5.15	4.99	0.0	Pass	-	OK
	system zero	0.176		0.189		0.18	0.00	0.1			OK
NO	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.464	-1.2	2.444	0.5	2.45	2.40	-0.4	Pass	Pass	OK
	system zero	-0.008		0.001		0.00	0.00	0.2			OK
CO	direct span	4.683		n/a		N/A	4.88	N/A			-
	direct zero	-0.015		n/a		N/A	0.00	N/A			-
	system span	4.673	0.4	4.666	N/A	4.67	4.88	-0.1	Pass	-	OK
	system zero	-0.007		-0.018		-0.01	0.00	-0.1			OK
NO2	direct span	3.298		3.290		3.29	3.71	-0.2			OK
	direct zero	0.123		-0.007		0.06	0.00	-2.6			Fail
	system span	3.125	1.8	3.077	6.8	3.10	3.71	-1.0	Pass	Pass	OK
	system zero	0.006		0.003		0.00	0.00	-0.1			OK
Nox (7E)	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.464	-1.2	2.444	0.5	2.45	2.40	-0.4	Pass	Pass	OK
	system zero	-0.008		0.001		0.00	0.00	0.2			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
W	12:55	13:03	13.57	4.31	1.42	0.17	1.24
S	13:05	13:13	13.58	4.31	1.45	0.17	1.27
E	13:15	13:23	13.57	4.31	1.50	0.16	1.31
N	13:25	13:33	13.58	4.32	1.49	0.16	1.31
	Average		13.575	4.311	1.466	0.1671	1.283

Method 19

Load, NMW	17842.0	
Fuel Flow, hdscfh	29737	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.70	
Stack Flow, dscf/m	778,152	778152.3
Stack Flow, dscf/hr	46,689,135	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.58	13.66	%
CO2 avg	4.3	4.15	%
**NOx avg	1.47	1.45	ppm
CO avg	0.17	0.19	ppm
NO avg	1.28	1.26	ppm
NO2 avg	0.18	0.19	ppm

Stack NO2 % 13

Reference O2	15
NOx, ppmC	1.18
CO, ppmC	0.15

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.58	13.66	%
CO2 avg	4.31	4.15	%
NOx avg	1.47	1.44	ppm
CO avg	0.17	0.19	ppm
CO2 avg	4.31	4.15	%

Reference O2	15
NOx, ppmC	1.17
CO, ppmC	0.15

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.66	13.7	0.0	-0.3%
CO2	4.15			
NOx	1.44	1.30	0.14	9.4%
NOx, ppmC	1.17	1.10	0.07	6.0%
Nox, lb/hr	8.00	7.3	0.70	8.7%
Nox, lb/MMBTU	0.004	0.004	0	0.0%
CO	0.187	0	0.2	100.0%
CO,ppmC	0.15	-1.70	1.9	1211.1%
CO, lb/hr	0.64	1847.20	-1846.6	########

*Corrected for drift and system bias.
**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Run #2

Start Time: 13:44 **Stop Time:** 14:24 **Date:** 11/19/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.948		n/a		N/A	10.00	N/A			-
	direct zero	-0.027		n/a		N/A	0.00	N/A			-
	system span	9.913	0.6	9.922	N/A	9.92	10.00	0.0	Pass	-	OK
	system zero	-0.002		-0.022		-0.01	0.00	-0.1			OK
CO2	direct span	5.127		n/a		N/A	4.99	N/A			-
	direct zero	0.132		n/a		N/A	0.00	N/A			-
	system span	5.151	0.7	5.157	N/A	5.15	4.99	0.1	Pass	-	OK
	system zero	0.189		0.185		0.19	0.00	0.0			OK
NO	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.444	0.0	2.440	0.4	2.44	2.40	-0.1	Pass	Pass	OK
	system zero	0.001		-0.006		0.00	0.00	-0.1			OK
CO	direct span	4.683		n/a		N/A	4.88	N/A			-
	direct zero	-0.015		n/a		N/A	0.00	N/A			-
	system span	4.666	0.3	4.671	N/A	4.67	4.88	0.0	Pass	-	OK
	system zero	-0.018		-0.008		-0.01	0.00	0.1			OK
NO2	direct span	3.298		3.290		3.29	3.71	-0.2			OK
	direct zero	0.123		-0.007		0.06	0.00	-2.6			Fail
	system span	3.077	3.2	3.088	6.3	3.08	3.71	0.2	Pass	Pass	OK
	system zero	0.003		-0.001		0.00	0.00	-0.1			OK
Nox (7E)	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.444	0.0	2.440	0.4	2.44	2.40	-0.1	Pass	Pass	OK
	system zero	0.001		-0.006		0.00	0.00	-0.1			OK

Test Data

Averaging Period, min. 2

	Start	End	O2	CO2	NOx	CO	NO
N	13:44	13:52	13.57	4.32	1.56	0.16	1.36
E	13:54	14:02	13.58	4.32	1.56	0.16	1.36
S	14:06	14:14	13.59	4.33	1.49	0.16	1.31
W	14:16	14:24	13.59	4.33	1.54	0.15	1.32
	Average		13.583	4.324	1.536	0.159	1.336

Method 19

Load, NMW	17821.1	
Fuel Flow, hdscfh	29702	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.70	
Stack Flow, dscf/m	777,241	777240.7
Stack Flow, dscf/hr	46,634.444	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.58	13.69	%
CO2 avg	4.3	4.16	%
NOx avg	1.54	1.52	ppm
CO avg	0.16	0.18	ppm
NO avg	1.34	1.32	ppm
NO2 avg	0.20	0.21	ppm

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.58	13.69	%
CO2 avg	4.32	4.16	%
NOx avg	1.54	1.51	ppm
CO avg	0.16	0.179	ppm
CO2 avg	4.32	4.16	%

Reference O2	15
NOx, ppmC	1.24
CO, ppmC	0.147

Stack NO2 %

14	
Reference O2	15
NOx, ppmC	1.25
CO, ppmC	0.15

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.691	13.70	0.0	-0.1%
CO2	4.16			
NOx	1.51	1.30	0.21	13.9%
NOx, ppmC	1.24	1.10	0.1	11.0%
Nox, lb/hr	8.41	7.4	1.0	12.0%
Nox, lb/MMBTU	0.005	0.004	0.001	20.0%
CO	0.179	0	0.2	100.0%
CO,ppmC	0.147	-1.70	1.8	1256.5%
CO, lb/hr	0.51	1845.00	-1844.4	########

*Corrected for drift and system bias.

Run #3

Start Time: 14:36 **Stop Time:** 15:14 **Date:** 11/19/14

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (avg.)	(ppm) (actual)	Drift (% FS)	Pre Bias Status	Post Bias Status	Drift Status
O2	direct span	9.948		9.901		9.92	10.00	-0.2			OK
	direct zero	-0.027		-0.055		-0.04	0.00	-0.1			OK
	system span	9.922	0.3	9.941	0.1	9.93	10.00	0.1	Pass	Pass	OK
	system zero	-0.022		-0.003		-0.01	0.00	0.1			OK
CO2	direct span	5.127		5.155		5.14	4.99	0.3			OK
	direct zero	0.132		0.163		0.15	0.00	0.3			OK
	system span	5.157	0.5	5.158	0.5	5.16	4.99	0.0	Pass	Pass	OK
	system zero	0.185		0.193		0.19	0.00	0.1			OK
NO	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.440	-0.2	2.443	0.8	2.44	2.40	0.1	Pass	Pass	OK
	system zero	-0.006		0.006		0.00	0.00	0.2			OK
CO	direct span	4.683		4.658		4.67	4.88	-0.2			OK
	direct zero	-0.015		-0.033		-0.02	0.00	-0.2			OK
	system span	4.671	0.4	4.676	-0.1	4.67	4.88	0.0	Pass	Pass	OK
	system zero	-0.008		-0.019		-0.01	0.00	-0.1			OK
NO2	direct span	3.298		3.290		3.29	3.71	-0.2			OK
	direct zero	0.123		-0.007		0.06	0.00	-2.6			Fail
	system span	3.088	2.7	3.089	7.0	3.09	3.71	0.0	Pass	Pass	OK
	system zero	-0.001		0.024		0.01	0.00	0.5			OK
Nox (7E)	direct span	2.448		2.441		2.44	2.40	-0.1			OK
	direct zero	0.006		-0.015		0.00	0.00	-0.4			OK
	system span	2.440	-0.2	2.443	0.8	2.44	2.40	0.1	Pass	Pass	OK
	system zero	-0.006		0.006		0.00	0.00	0.2			OK

Test Data

Averaging Period, min. 2

#REF!

Start	End	O2	CO2	NOx	CO	NO
14:36	14:44	13.57	4.33	1.60	0.15	1.38
14:46	14:54	13.59	4.33	1.51	0.16	1.33
14:56	15:04	13.60	4.33	1.62	0.16	1.40
15:06	15:14	13.61	4.33	1.50	0.17	1.32
Average		13.590	4.331	1.557	0.159	1.358

Method 19

Load, NMW	178.0	
Fuel Flow, hdscfh	29662	
HHV, BTU/scf	1035	
F Factor	8710	
O2	13.70	
Stack Flow, dscf/m	776,190	776189.64
Stack Flow, dscf/hr	46,571,379	

SDCAPCD Method 100 Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.59	13.68	%
CO2 avg	4.3	4.16	%
NOx avg	1.56	1.54	ppm
CO avg	0.16	0.18	ppm
NO avg	1.36	1.33	ppm
NO2 avg	0.20	0.21	ppm

Stack NO2 % 13.5

Reference O2	15
NOx, ppmC	1.26
CO, ppmC	0.15

EPA Method 7E Results

GAS	CONCENTRATION uncorrected	*corrected	
O2 avg	13.59	13.68	%
CO2 avg	4.33	4.16	%
NOx avg	1.56	1.53	ppm
CO avg	0.16	0.18	ppm
CO2 avg	4.33	4.16	%

Reference O2	15
NOx, ppmC	1.25
CO, ppmC	0.15

RATA Results

	RM	CEMS	Diff	% Diff
O2	13.68	13.70	0.0	-0.2%
CO2	4.16			
NOx	1.53	1.3	0.2	15.1%
NOx, ppmC	1.25	1.1	0.2	12.0%
Nox, lb/hr	8.51	7.4	1.1	13.0%
Nox, lb/MMBTU	0.005	0.004	0.001	20.0%
CO	0.18	-0.5	0.7	377.7%
CO,ppmC	0.15	0	0.1	100.0%
CO, lb/hr	0.61	-1.7	2.3	379.0%

APPENDIX E PLANT DATA

RATA Data Report

CT1

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 11:04 **Location:** Maxwell, CA

Red = Sample Invalid

fl min

COLUSA GENERATING STATION

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 11:41	13.9	0.7	0.6	0.002	2.5	9.7	11.4	14.0
11/17/2014 11:42	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:43	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:44	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:45	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:46	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:47	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:48	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 11:49	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 11:50	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 11:51	13.9	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 11:52	13.9	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 11:53	13.9	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 11:54	13.9	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 11:55	13.9	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 11:56	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 11:57	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 11:58	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 11:59	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:00	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:01	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:02	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:03	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:04	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:05	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:06	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:07	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:08	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:09	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0

RATA Data Report

CT1

R1 min

COLUSA GENERATING STATION

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 11:04 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 12:10	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:11	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:12	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:13	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:14	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:15	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:16	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:17	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:18	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:19	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 12:20	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0

RATA Data Report

CT1

R1 min

COLUSA GENERATING STATION

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 12:51 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 11:41	13.9	-0.3	0.0	-0.7	1,264.9	106.0	2,474,549.9	1.1
11/17/2014 11:42	13.9	-0.3	0.0	-0.7	1,265.5	105.9	2,475,723.7	1.1
11/17/2014 11:43	13.9	-0.3	0.0	-0.7	1,265.5	105.9	2,475,723.7	1.1
11/17/2014 11:44	13.9	-0.3	0.0	-0.7	1,263.9	105.8	2,472,593.5	1.1
11/17/2014 11:45	13.9	-0.3	0.0	-0.7	1,262.2	105.6	2,469,267.8	1.1
11/17/2014 11:46	13.9	-0.3	0.0	-0.7	1,260.9	105.2	2,466,724.6	1.1
11/17/2014 11:47	13.9	-0.3	0.0	-0.7	1,256.9	104.9	2,458,899.3	1.1
11/17/2014 11:48	13.9	-0.3	0.0	-0.7	1,257.6	104.9	2,460,268.7	1.1
11/17/2014 11:49	13.9	-0.2	0.0	-0.5	1,255.3	104.7	2,455,769.2	1.1
11/17/2014 11:50	13.9	-0.3	0.0	-0.7	1,254.9	104.6	2,454,986.7	1.1
11/17/2014 11:51	13.9	-0.3	0.0	-0.7	1,255.3	104.6	2,455,769.2	1.1
11/17/2014 11:52	13.9	-0.3	0.0	-0.7	1,254.6	104.5	2,454,399.8	1.1
11/17/2014 11:53	13.9	-0.3	0.0	-0.7	1,255.3	104.7	2,455,769.2	1.1
11/17/2014 11:54	13.9	-0.3	0.0	-0.7	1,255.3	104.7	2,455,769.2	1.1
11/17/2014 11:55	13.9	-0.3	0.0	-0.7	1,257.9	105.1	2,460,855.6	1.1
11/17/2014 11:56	13.9	-0.3	0.0	-0.7	1,258.2	105.2	2,461,442.5	1.1
11/17/2014 11:57	13.9	-0.3	0.0	-0.7	1,260.6	105.4	2,466,137.7	1.1
11/17/2014 11:58	13.9	-0.3	0.0	-0.7	1,259.9	105.3	2,464,768.3	1.1
11/17/2014 11:59	13.9	-0.3	0.0	-0.7	1,260.6	105.4	2,466,137.7	1.1
11/17/2014 12:00	13.9	-0.3	0.0	-0.7	1,260.2	105.4	2,465,355.2	1.1
11/17/2014 12:01	13.9	-0.3	0.0	-0.7	1,261.6	105.6	2,468,094.0	1.1
11/17/2014 12:02	13.9	-0.3	0.0	-0.7	1,261.9	105.6	2,468,680.9	1.1
11/17/2014 12:03	13.9	-0.3	0.0	-0.7	1,261.9	105.6	2,468,680.9	1.1
11/17/2014 12:04	13.9	-0.3	0.0	-0.7	1,262.2	105.6	2,469,267.8	1.1
11/17/2014 12:05	13.9	-0.3	0.0	-0.7	1,262.6	105.6	2,470,050.3	1.1
11/17/2014 12:06	13.9	-0.3	0.0	-0.7	1,262.2	105.6	2,469,267.8	1.1
11/17/2014 12:07	13.9	-0.3	0.0	-0.7	1,262.6	105.7	2,470,050.3	1.1
11/17/2014 12:08	13.9	-0.3	0.0	-0.7	1,262.9	105.7	2,470,637.2	1.1
11/17/2014 12:09	13.9	-0.2	0.0	-0.5	1,263.2	105.8	2,471,224.1	1.1

RATA Data Report

CT1

R) min

COLUSA GENERATING STATION

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 12:51 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 12:10	13.9	-0.3	0.0	-0.7	1,265.2	106.0	2,475,136.8	1.1
11/17/2014 12:11	13.9	-0.3	0.0	-0.7	1,264.9	106.0	2,474,549.9	1.1
11/17/2014 12:12	13.9	-0.2	0.0	-0.5	1,265.2	105.9	2,475,136.8	1.1
11/17/2014 12:13	13.9	-0.2	0.0	-0.5	1,263.5	105.8	2,471,811.0	1.1
11/17/2014 12:14	13.9	-0.2	0.0	-0.5	1,261.9	105.6	2,468,680.9	1.1
11/17/2014 12:15	13.9	-0.3	0.0	-0.7	1,261.6	105.5	2,468,094.0	1.1
11/17/2014 12:16	13.9	-0.3	0.0	-0.7	1,261.2	105.5	2,467,311.5	1.1
11/17/2014 12:17	13.9	-0.3	0.0	-0.7	1,257.3	104.9	2,459,681.8	1.1
11/17/2014 12:18	13.9	-0.3	0.0	-0.7	1,256.9	105.0	2,458,899.3	1.1
11/17/2014 12:19	13.9	-0.3	0.0	-0.7	1,257.9	105.0	2,460,855.6	1.1
11/17/2014 12:20	13.9	-0.3	0.0	-0.7	1,257.3	104.9	2,459,681.8	1.1
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.9	-0.3	0.0	-0.7	1,260.5	105.4	2,465,917.6	1.1

RATA Data Report

CT1

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 12:56 **Location:** Maxwell, CA

Red = Sample Invalid

Rn min

COLUSA GENERATING STATION

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, Mwe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 11:41	0.0	-0.7	13.9	14.0	106.0	12,217.6	98.5	1.1
11/17/2014 11:42	0.0	-0.7	13.9	14.0	105.9	12,224.0	98.0	1.1
11/17/2014 11:43	0.0	-0.7	13.9	14.0	105.9	12,224.0	97.9	1.1
11/17/2014 11:44	0.0	-0.7	13.9	14.0	105.8	12,208.0	97.4	1.1
11/17/2014 11:45	0.0	-0.7	13.9	14.0	105.6	12,192.0	98.5	1.1
11/17/2014 11:46	0.0	-0.7	13.9	14.0	105.2	12,179.2	97.7	1.1
11/17/2014 11:47	0.0	-0.7	13.9	14.0	104.9	12,140.8	97.9	1.1
11/17/2014 11:48	0.0	-0.7	13.9	14.0	104.9	12,147.2	97.9	1.1
11/17/2014 11:49	0.0	-0.5	13.9	14.0	104.7	12,124.8	98.3	1.1
11/17/2014 11:50	0.0	-0.7	13.9	14.0	104.6	12,121.6	98.3	1.1
11/17/2014 11:51	0.0	-0.7	13.9	14.0	104.6	12,124.8	96.8	1.1
11/17/2014 11:52	0.0	-0.7	13.9	14.0	104.5	12,118.4	96.9	1.1
11/17/2014 11:53	0.0	-0.7	13.9	14.0	104.7	12,124.8	98.2	1.1
11/17/2014 11:54	0.0	-0.7	13.9	14.0	104.7	12,124.8	98.7	1.1
11/17/2014 11:55	0.0	-0.7	13.9	14.0	105.1	12,150.4	98.4	1.1
11/17/2014 11:56	0.0	-0.7	13.9	14.0	105.2	12,153.6	97.9	1.1
11/17/2014 11:57	0.0	-0.7	13.9	14.0	105.4	12,176.0	98.1	1.1
11/17/2014 11:58	0.0	-0.7	13.9	14.0	105.3	12,169.6	97.5	1.1
11/17/2014 11:59	0.0	-0.7	13.9	14.0	105.4	12,176.0	97.8	1.1
11/17/2014 12:00	0.0	-0.7	13.9	14.0	105.4	12,172.8	97.8	1.1
11/17/2014 12:01	0.0	-0.7	13.9	14.0	105.6	12,185.6	98.5	1.1
11/17/2014 12:02	0.0	-0.7	13.9	14.0	105.6	12,188.8	98.9	1.1
11/17/2014 12:03	0.0	-0.7	13.9	14.0	105.6	12,188.8	97.7	1.1
11/17/2014 12:04	0.0	-0.7	13.9	14.0	105.6	12,192.0	98.1	1.1
11/17/2014 12:05	0.0	-0.7	13.9	14.0	105.6	12,195.2	98.8	1.1
11/17/2014 12:06	0.0	-0.7	13.9	14.0	105.6	12,192.0	98.2	1.1
11/17/2014 12:07	0.0	-0.7	13.9	14.0	105.7	12,195.2	98.3	1.1
11/17/2014 12:08	0.0	-0.7	13.9	14.0	105.7	12,198.4	97.5	1.1
11/17/2014 12:09	0.0	-0.5	13.9	14.0	105.8	12,201.6	98.3	1.1

RATA Data Report
CT1

From: 11/17/2014 11:41 **To:** 11/17/2014 12:20 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 12:56 **Location:** Maxwell, CA

Red = Sample Invalid

R1 min

COLUSA GENERATING STATION

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 12:10	0.0	-0.7	13.9	14.0	106.0	12,220.8	98.5	1.1
11/17/2014 12:11	0.0	-0.7	13.9	14.0	106.0	12,217.6	98.1	1.1
11/17/2014 12:12	0.0	-0.5	13.9	14.0	105.9	12,220.8	97.9	1.1
11/17/2014 12:13	0.0	-0.5	13.9	14.0	105.8	12,204.8	98.0	1.1
11/17/2014 12:14	0.0	-0.5	13.9	14.0	105.6	12,188.8	98.3	1.1
11/17/2014 12:15	0.0	-0.7	13.9	14.0	105.5	12,185.6	98.4	1.1
11/17/2014 12:16	0.0	-0.7	13.9	14.0	105.5	12,182.4	97.6	1.1
11/17/2014 12:17	0.0	-0.7	13.9	14.0	104.9	12,144.0	98.0	1.1
11/17/2014 12:18	0.0	-0.7	13.9	14.0	105.0	12,140.8	97.3	1.1
11/17/2014 12:19	0.0	-0.7	13.9	14.0	105.0	12,150.4	97.9	1.1
11/17/2014 12:20	0.0	-0.7	13.9	14.0	104.9	12,144.0	97.8	1.1
Valid Data Points	40	40	40	40	40	40	40	40
Average:	0.0	-0.7	13.9	14.0	105.4	12,175.2	98.0	1.1

RATA Data Report

CT1

R2 min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 12:41	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:42	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:43	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:44	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:45	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:46	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:47	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:48	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:49	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:50	14.0	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 12:51	14.0	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 12:52	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:53	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:54	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:55	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:56	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:57	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:58	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 12:59	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:00	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:01	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:02	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:03	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:04	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:05	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:06	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:07	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:08	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:09	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0

RATA Data Report

CT1

R2 - min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 13:10	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:11	14.0	0.8	0.7	0.003	3.8	9.7	11.3	14.0
11/17/2014 13:12	14.0	0.8	0.7	0.003	3.8	9.7	11.3	14.0
11/17/2014 13:13	14.0	0.8	0.7	0.003	3.8	9.7	11.3	14.0
11/17/2014 13:14	14.0	0.8	0.7	0.003	3.8	9.6	11.2	14.0
11/17/2014 13:15	14.0	0.7	0.6	0.002	2.5	9.5	11.1	14.0
11/17/2014 13:16	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:17	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:18	14.0	0.7	0.6	0.002	2.5	9.7	11.3	14.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	14.0	0.7	0.6	0.002	2.6	9.6	11.3	14.0

RATA Data Report

CT1

R2 min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:11 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 12:41	13.9	-0.2	0.0	-0.5	1,253.3	104.5	2,451,856.5	1.1
11/17/2014 12:42	13.9	-0.3	0.0	-0.7	1,252.9	104.5	2,451,074.0	1.1
11/17/2014 12:43	13.9	-0.3	0.0	-0.7	1,252.3	104.5	2,449,900.2	1.1
11/17/2014 12:44	13.9	-0.3	0.0	-0.7	1,253.6	104.6	2,452,443.4	1.1
11/17/2014 12:45	14.0	-0.3	0.0	-0.7	1,253.9	104.4	2,488,581.5	1.1
11/17/2014 12:46	14.0	-0.3	0.0	-0.7	1,254.3	104.6	2,489,375.4	1.1
11/17/2014 12:47	14.0	-0.3	0.0	-0.7	1,253.6	104.5	2,487,986.1	1.1
11/17/2014 12:48	14.0	-0.3	0.0	-0.7	1,253.6	104.6	2,487,986.1	1.1
11/17/2014 12:49	14.0	-0.3	0.0	-0.7	1,253.6	104.6	2,487,986.1	1.1
11/17/2014 12:50	14.0	-0.3	0.0	-0.7	1,252.9	104.4	2,486,596.8	1.1
11/17/2014 12:51	14.0	-0.3	0.0	-0.7	1,253.9	104.7	2,488,581.5	1.1
11/17/2014 12:52	14.0	-0.3	0.0	-0.7	1,254.9	104.8	2,490,566.2	1.1
11/17/2014 12:53	14.0	-0.3	0.0	-0.7	1,254.9	104.8	2,490,566.2	1.1
11/17/2014 12:54	14.0	-0.3	0.0	-0.7	1,255.3	104.9	2,491,360.0	1.1
11/17/2014 12:55	14.0	-0.3	0.0	-0.7	1,255.3	104.7	2,491,360.0	1.1
11/17/2014 12:56	14.0	-0.3	0.0	-0.7	1,256.3	104.9	2,493,344.7	1.1
11/17/2014 12:57	14.0	-0.2	0.0	-0.5	1,259.9	105.3	2,500,489.5	1.1
11/17/2014 12:58	13.9	-0.2	0.0	-0.5	1,258.9	105.5	2,462,811.9	1.1
11/17/2014 12:59	13.9	-0.2	0.0	-0.5	1,260.6	105.4	2,466,137.7	1.1
11/17/2014 13:00	13.9	-0.3	0.0	-0.7	1,261.2	105.4	2,467,311.5	1.1
11/17/2014 13:01	13.9	-0.3	0.0	-0.7	1,260.2	105.4	2,465,355.2	1.1
11/17/2014 13:02	13.9	-0.3	0.0	-0.7	1,262.2	105.7	2,469,267.8	1.1
11/17/2014 13:03	13.9	-0.3	0.0	-0.7	1,262.9	105.9	2,470,637.2	1.1
11/17/2014 13:04	13.9	-0.3	0.0	-0.7	1,263.9	105.8	2,472,593.5	1.1
11/17/2014 13:05	13.9	-0.3	0.0	-0.7	1,262.6	105.8	2,470,050.3	1.1
11/17/2014 13:06	13.9	-0.3	0.0	-0.7	1,263.5	105.9	2,471,811.0	1.1
11/17/2014 13:07	13.9	-0.3	0.0	-0.7	1,262.2	105.8	2,469,267.8	1.1
11/17/2014 13:08	13.9	-0.3	0.0	-0.7	1,260.2	105.4	2,465,355.2	1.1
11/17/2014 13:09	13.9	-0.3	0.0	-0.7	1,260.2	105.5	2,465,355.2	1.1

RATA Data Report

CT1

R2 min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:11 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:10	13.9	-0.3	0.0	-0.7	1,259.2	105.3	2,463,398.8	1.1
11/17/2014 13:11	14.0	-0.3	0.0	-0.7	1,256.3	105.0	2,493,344.7	1.1
11/17/2014 13:12	14.0	-0.3	0.0	-0.7	1,251.6	104.2	2,484,016.8	1.1
11/17/2014 13:13	14.0	-0.3	0.0	-0.7	1,250.3	104.2	2,481,436.7	1.1
11/17/2014 13:14	14.0	-0.3	0.0	-0.7	1,254.9	104.9	2,490,566.2	1.1
11/17/2014 13:15	14.0	-0.3	0.0	-0.7	1,259.9	105.4	2,500,489.5	1.1
11/17/2014 13:16	13.9	-0.3	0.0	-0.7	1,259.6	105.4	2,464,181.4	1.1
11/17/2014 13:17	13.9	-0.3	0.0	-0.7	1,259.9	105.4	2,464,768.3	1.1
11/17/2014 13:18	14.0	-0.3	0.0	-0.7	1,259.6	105.5	2,499,894.1	1.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	14.0	-0.3	0.0	-0.7	1,257.2	105.1	2,477,318.6	1.1

RATA Data Report

CT1

R2 min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:24 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 12:41	0.0	-0.5	13.9	14.0	104.5	12,105.6	98.5	1.1
11/17/2014 12:42	0.0	-0.7	13.9	14.0	104.5	12,102.4	96.9	1.1
11/17/2014 12:43	0.0	-0.7	13.9	14.0	104.5	12,096.0	97.6	1.1
11/17/2014 12:44	0.0	-0.7	13.9	14.0	104.6	12,108.8	97.0	1.1
11/17/2014 12:45	0.0	-0.7	14.0	14.0	104.4	12,112.0	97.7	1.1
11/17/2014 12:46	0.0	-0.7	14.0	14.0	104.6	12,115.2	98.4	1.1
11/17/2014 12:47	0.0	-0.7	14.0	14.0	104.5	12,108.8	97.3	1.1
11/17/2014 12:48	0.0	-0.7	14.0	14.0	104.6	12,108.8	98.1	1.1
11/17/2014 12:49	0.0	-0.7	14.0	14.0	104.6	12,108.8	97.3	1.1
11/17/2014 12:50	0.0	-0.7	14.0	14.0	104.4	12,102.4	97.3	1.1
11/17/2014 12:51	0.0	-0.7	14.0	14.0	104.7	12,112.0	98.0	1.1
11/17/2014 12:52	0.0	-0.7	14.0	14.0	104.8	12,121.6	98.5	1.1
11/17/2014 12:53	0.0	-0.7	14.0	14.0	104.8	12,121.6	97.5	1.1
11/17/2014 12:54	0.0	-0.7	14.0	14.0	104.9	12,124.8	98.0	1.1
11/17/2014 12:55	0.0	-0.7	14.0	14.0	104.7	12,124.8	98.2	1.1
11/17/2014 12:56	0.0	-0.7	14.0	14.0	104.9	12,134.4	97.4	1.1
11/17/2014 12:57	0.0	-0.5	14.0	14.0	105.3	12,169.6	98.8	1.1
11/17/2014 12:58	0.0	-0.5	13.9	14.0	105.5	12,160.0	97.5	1.1
11/17/2014 12:59	0.0	-0.5	13.9	14.0	105.4	12,176.0	97.3	1.1
11/17/2014 13:00	0.0	-0.7	13.9	14.0	105.4	12,182.4	99.2	1.1
11/17/2014 13:01	0.0	-0.7	13.9	14.0	105.4	12,172.8	97.5	1.1
11/17/2014 13:02	0.0	-0.7	13.9	14.0	105.7	12,192.0	97.5	1.1
11/17/2014 13:03	0.0	-0.7	13.9	14.0	105.9	12,198.4	98.9	1.1
11/17/2014 13:04	0.0	-0.7	13.9	14.0	105.8	12,208.0	97.3	1.1
11/17/2014 13:05	0.0	-0.7	13.9	14.0	105.8	12,195.2	98.8	1.1
11/17/2014 13:06	0.0	-0.7	13.9	14.0	105.9	12,204.8	97.7	1.1
11/17/2014 13:07	0.0	-0.7	13.9	14.0	105.8	12,192.0	97.9	1.1
11/17/2014 13:08	0.0	-0.7	13.9	14.0	105.4	12,172.8	98.3	1.1
11/17/2014 13:09	0.0	-0.7	13.9	14.0	105.5	12,172.8	97.2	1.1

RATA Data Report

CT1

R2 min

COLUSA GENERATING STATION

From: 11/17/2014 12:41 **To:** 11/17/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:24 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:10	0.0	-0.7	13.9	14.0	105.3	12,163.2	98.7	1.1
11/17/2014 13:11	0.0	-0.7	14.0	14.0	105.0	12,134.4	98.0	1.1
11/17/2014 13:12	0.0	-0.7	14.0	14.0	104.2	12,089.6	98.8	1.1
11/17/2014 13:13	0.0	-0.7	14.0	14.0	104.2	12,076.8	97.0	1.1
11/17/2014 13:14	0.0	-0.7	14.0	14.0	104.9	12,121.6	97.5	1.1
11/17/2014 13:15	0.0	-0.7	14.0	14.0	105.4	12,169.6	97.1	1.1
11/17/2014 13:16	0.0	-0.7	13.9	14.0	105.4	12,166.4	97.9	1.1
11/17/2014 13:17	0.0	-0.7	13.9	14.0	105.4	12,169.6	98.8	1.1
11/17/2014 13:18	0.0	-0.7	14.0	14.0	105.5	12,166.4	97.9	1.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.7	14.0	14.0	105.1	12,143.7	97.9	1.1

RATA Data Report

CT1

R3 min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 13:30	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:31	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:32	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:33	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:34	14.0	0.8	0.7	0.003	3.8	9.6	11.2	14.0
11/17/2014 13:35	14.0	0.8	0.7	0.003	3.8	9.6	11.2	14.0
11/17/2014 13:36	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:37	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:38	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:39	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:40	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:41	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:42	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:43	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:44	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:45	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:46	14.0	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:47	13.9	0.7	0.6	0.002	2.5	9.6	11.2	14.0
11/17/2014 13:48	14.0	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:49	13.9	0.7	0.6	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:50	13.9	0.8	0.7	0.002	2.5	9.7	11.3	14.0
11/17/2014 13:51	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:52	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:53	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:54	13.9	0.8	0.7	0.002	2.5	9.7	11.4	14.0
11/17/2014 13:55	13.9	0.8	0.7	0.002	2.5	9.8	11.5	14.0
11/17/2014 13:56	13.9	0.8	0.7	0.002	2.5	9.8	11.5	14.0
11/17/2014 13:57	14.0	0.8	0.7	0.003	3.8	9.8	11.5	14.0
11/17/2014 13:58	14.0	0.8	0.7	0.003	3.8	9.8	11.5	14.0

RATA Data Report

CT1

R3
min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 13:59	14.0	0.8	0.7	0.003	3.8	9.8	11.5	14.0
11/17/2014 14:00	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:01	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:02	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:03	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:04	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:05	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:06	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
11/17/2014 14:07	14.0	0.8	0.7	0.003	3.8	9.7	11.4	14.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	14.0	0.8	0.7	0.002	2.9	9.7	11.3	14.0

RATA Data Report

CT1

R3 min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:12 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:30	13.9	-0.3	0.0	-0.7	1,265.9	106.0	2,476,506.2	1.1
11/17/2014 13:31	13.9	-0.3	0.0	-0.7	1,253.3	104.6	2,451,856.5	1.1
11/17/2014 13:32	13.9	-0.3	0.0	-0.7	1,252.6	104.4	2,450,487.1	1.1
11/17/2014 13:33	13.9	-0.3	0.0	-0.7	1,251.6	104.5	2,448,530.8	1.1
11/17/2014 13:34	14.0	-0.3	0.0	-0.7	1,251.6	104.5	2,484,016.8	1.1
11/17/2014 13:35	14.0	-0.3	0.0	-0.7	1,251.6	104.4	2,484,016.8	1.1
11/17/2014 13:36	14.0	-0.3	0.0	-0.7	1,253.3	104.6	2,487,390.7	1.1
11/17/2014 13:37	14.0	-0.3	0.0	-0.7	1,252.6	104.5	2,486,001.4	1.1
11/17/2014 13:38	14.0	-0.3	0.0	-0.7	1,252.6	104.6	2,486,001.4	1.1
11/17/2014 13:39	14.0	-0.3	0.0	-0.7	1,252.3	104.6	2,485,406.0	1.1
11/17/2014 13:40	14.0	-0.3	0.0	-0.7	1,253.3	104.5	2,487,390.7	1.1
11/17/2014 13:41	14.0	-0.3	0.0	-0.7	1,253.6	104.5	2,487,986.1	1.1
11/17/2014 13:42	14.0	-0.3	0.0	-0.7	1,252.3	104.4	2,485,406.0	1.1
11/17/2014 13:43	14.0	-0.3	0.0	-0.7	1,252.9	104.5	2,486,596.8	1.1
11/17/2014 13:44	14.0	-0.3	0.0	-0.7	1,253.6	104.6	2,487,986.1	1.1
11/17/2014 13:45	14.0	-0.2	0.0	-0.5	1,253.9	104.7	2,488,581.5	1.1
11/17/2014 13:46	14.0	-0.2	0.0	-0.5	1,253.6	104.7	2,487,986.1	1.1
11/17/2014 13:47	13.9	-0.2	0.0	-0.5	1,253.9	104.7	2,453,030.3	1.1
11/17/2014 13:48	14.0	-0.3	0.0	-0.7	1,255.3	105.1	2,491,360.0	1.1
11/17/2014 13:49	13.9	-0.2	0.0	-0.5	1,259.2	105.4	2,463,398.8	1.1
11/17/2014 13:50	13.9	-0.2	0.0	-0.5	1,258.6	105.5	2,462,225.0	1.1
11/17/2014 13:51	13.9	-0.2	0.0	-0.5	1,261.6	105.8	2,468,094.0	1.1
11/17/2014 13:52	13.9	-0.3	0.0	-0.7	1,262.2	105.9	2,469,267.8	1.1
11/17/2014 13:53	13.9	-0.3	0.0	-0.7	1,260.6	105.7	2,466,137.7	1.1
11/17/2014 13:54	13.9	-0.3	0.0	-0.7	1,262.6	105.8	2,470,050.3	1.1
11/17/2014 13:55	13.9	-0.3	0.0	-0.7	1,261.2	105.7	2,467,311.5	1.1
11/17/2014 13:56	13.9	-0.3	0.0	-0.7	1,261.6	105.7	2,468,094.0	1.1
11/17/2014 13:57	14.0	-0.3	0.0	-0.7	1,261.2	105.6	2,503,069.6	1.1
11/17/2014 13:58	14.0	-0.3	0.0	-0.7	1,258.9	105.5	2,498,504.9	1.1

RATA Data Report

CT1

R3 min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:12 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:59	14.0	-0.3	0.0	-0.7	1,259.9	105.5	2,500,489.5	1.1
11/17/2014 14:00	14.0	-0.3	0.0	-0.7	1,259.9	105.6	2,500,489.5	1.1
11/17/2014 14:01	14.0	-0.3	0.0	-0.7	1,260.6	105.7	2,501,878.8	1.1
11/17/2014 14:02	14.0	-0.3	0.0	-0.7	1,261.2	105.7	2,503,069.6	1.1
11/17/2014 14:03	14.0	-0.3	0.0	-0.7	1,261.2	105.6	2,503,069.6	1.1
11/17/2014 14:04	14.0	-0.3	0.0	-0.7	1,260.9	105.6	2,502,474.2	1.1
11/17/2014 14:05	14.0	-0.3	0.0	-0.7	1,261.2	105.8	2,503,069.6	1.1
11/17/2014 14:06	14.0	-0.3	0.0	-0.7	1,262.9	105.8	2,506,443.6	1.1
11/17/2014 14:07	14.0	-0.3	0.0	-0.7	1,261.6	105.9	2,503,863.5	1.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	14.0	-0.3	0.0	-0.7	1,257.3	105.2	2,483,093.1	1.1

RATA Data Report

CT1

R3 min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:30	0.0	-0.7	13.9	14.0	106.0	12,227.2	98.7	1.1
11/17/2014 13:31	0.0	-0.7	13.9	14.0	104.6	12,105.6	97.3	1.1
11/17/2014 13:32	0.0	-0.7	13.9	14.0	104.4	12,099.2	98.9	1.1
11/17/2014 13:33	0.0	-0.7	13.9	14.0	104.5	12,089.6	97.5	1.1
11/17/2014 13:34	0.0	-0.7	14.0	14.0	104.5	12,089.6	97.8	1.1
11/17/2014 13:35	0.0	-0.7	14.0	14.0	104.4	12,089.6	98.2	1.1
11/17/2014 13:36	0.0	-0.7	14.0	14.0	104.6	12,105.6	98.5	1.1
11/17/2014 13:37	0.0	-0.7	14.0	14.0	104.5	12,099.2	98.2	1.1
11/17/2014 13:38	0.0	-0.7	14.0	14.0	104.6	12,099.2	97.9	1.1
11/17/2014 13:39	0.0	-0.7	14.0	14.0	104.6	12,096.0	97.8	1.1
11/17/2014 13:40	0.0	-0.7	14.0	14.0	104.5	12,105.6	97.8	1.1
11/17/2014 13:41	0.0	-0.7	14.0	14.0	104.5	12,108.8	97.1	1.1
11/17/2014 13:42	0.0	-0.7	14.0	14.0	104.4	12,096.0	98.6	1.1
11/17/2014 13:43	0.0	-0.7	14.0	14.0	104.5	12,102.4	97.8	1.1
11/17/2014 13:44	0.0	-0.7	14.0	14.0	104.6	12,108.8	96.9	1.1
11/17/2014 13:45	0.0	-0.5	14.0	14.0	104.7	12,112.0	98.1	1.1
11/17/2014 13:46	0.0	-0.5	14.0	14.0	104.7	12,108.8	98.7	1.1
11/17/2014 13:47	0.0	-0.5	13.9	14.0	104.7	12,112.0	97.8	1.1
11/17/2014 13:48	0.0	-0.7	14.0	14.0	105.1	12,124.8	98.7	1.1
11/17/2014 13:49	0.0	-0.5	13.9	14.0	105.4	12,163.2	98.0	1.1
11/17/2014 13:50	0.0	-0.5	13.9	14.0	105.5	12,156.8	98.4	1.1
11/17/2014 13:51	0.0	-0.5	13.9	14.0	105.8	12,185.6	98.7	1.1
11/17/2014 13:52	0.0	-0.7	13.9	14.0	105.9	12,192.0	97.9	1.1
11/17/2014 13:53	0.0	-0.7	13.9	14.0	105.7	12,176.0	97.3	1.1
11/17/2014 13:54	0.0	-0.7	13.9	14.0	105.8	12,195.2	97.5	1.1
11/17/2014 13:55	0.0	-0.7	13.9	14.0	105.7	12,182.4	98.0	1.1
11/17/2014 13:56	0.0	-0.7	13.9	14.0	105.7	12,185.6	98.7	1.1
11/17/2014 13:57	0.0	-0.7	14.0	14.0	105.6	12,182.4	98.5	1.1
11/17/2014 13:58	0.0	-0.7	14.0	14.0	105.5	12,160.0	98.0	1.1

RATA Data Report

CT1

R3 min

COLUSA GENERATING STATION

From: 11/17/2014 13:30 **To:** 11/17/2014 14:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 13:59	0.0	-0.7	14.0	14.0	105.5	12,169.6	98.3	1.1
11/17/2014 14:00	0.0	-0.7	14.0	14.0	105.6	12,169.6	98.5	1.1
11/17/2014 14:01	0.0	-0.7	14.0	14.0	105.7	12,176.0	98.5	1.1
11/17/2014 14:02	0.0	-0.7	14.0	14.0	105.7	12,182.4	97.5	1.1
11/17/2014 14:03	0.0	-0.7	14.0	14.0	105.6	12,182.4	98.0	1.1
11/17/2014 14:04	0.0	-0.7	14.0	14.0	105.6	12,179.2	98.4	1.1
11/17/2014 14:05	0.0	-0.7	14.0	14.0	105.8	12,182.4	98.5	1.1
11/17/2014 14:06	0.0	-0.7	14.0	14.0	105.8	12,198.4	97.8	1.1
11/17/2014 14:07	0.0	-0.7	14.0	14.0	105.9	12,185.6	98.2	1.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.7	14.0	14.0	105.2	12,144.3	98.1	1.1

RATA Data Report

CT1

mid
R1

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:01 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 14:26	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:27	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:28	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:29	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:30	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:31	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:32	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:33	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:34	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:35	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:36	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:37	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:38	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:39	13.9	0.9	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:40	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:41	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:42	13.9	0.9	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:43	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:44	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:45	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9
11/17/2014 14:46	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:47	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:48	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:49	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:50	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:51	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:52	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:53	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:54	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9

RATA Data Report

CT1

mid R1

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:01 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 14:55	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:56	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:57	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:58	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 14:59	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:00	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:01	13.9	1.0	0.8	0.003	4.5	9.5	11.3	13.9
11/17/2014 15:02	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:03	13.9	1.0	0.8	0.003	4.5	9.6	11.4	13.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	1.0	0.8	0.003	4.6	9.6	11.4	13.9

RATA Data Report

CT1

R1 mid

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:12 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 14:26	13.9	-0.3	0.0	-0.9	1,531.2	140.5	2,995,518.0	1.0
11/17/2014 14:27	13.9	-0.3	0.0	-0.9	1,532.2	140.8	2,997,474.3	1.0
11/17/2014 14:28	13.9	-0.3	0.0	-0.9	1,534.5	140.8	3,001,973.9	1.0
11/17/2014 14:29	13.9	-0.3	0.0	-0.9	1,529.9	140.8	2,992,974.8	1.0
11/17/2014 14:30	13.9	-0.3	0.0	-0.9	1,530.2	141.1	2,993,561.7	1.0
11/17/2014 14:31	13.9	-0.2	0.0	-0.6	1,531.2	141.0	2,995,518.0	1.0
11/17/2014 14:32	13.9	-0.2	0.0	-0.6	1,533.6	141.0	3,000,213.2	1.0
11/17/2014 14:33	13.9	-0.2	0.0	-0.6	1,535.9	141.0	3,004,712.7	1.0
11/17/2014 14:34	13.9	-0.2	0.0	-0.6	1,530.6	140.9	2,994,344.2	1.0
11/17/2014 14:35	13.9	-0.2	0.0	-0.6	1,528.3	140.5	2,989,844.7	1.0
11/17/2014 14:36	13.9	-0.2	0.0	-0.6	1,526.6	140.5	2,986,518.9	1.0
11/17/2014 14:37	13.9	-0.2	0.0	-0.6	1,526.9	140.6	2,987,105.8	1.0
11/17/2014 14:38	13.9	-0.2	0.0	-0.6	1,528.6	140.4	2,990,431.6	1.0
11/17/2014 14:39	13.9	-0.2	0.0	-0.6	1,530.6	140.5	2,994,344.2	1.0
11/17/2014 14:40	13.9	-0.2	0.0	-0.6	1,537.2	141.1	3,007,255.9	1.0
11/17/2014 14:41	13.9	-0.3	0.0	-0.9	1,536.2	141.1	3,005,299.6	1.0
11/17/2014 14:42	13.9	-0.3	0.0	-0.9	1,534.5	140.8	3,001,973.9	1.0
11/17/2014 14:43	13.9	-0.3	0.0	-0.9	1,534.2	140.7	3,001,387.0	1.0
11/17/2014 14:44	13.9	-0.3	0.0	-0.9	1,533.2	141.0	2,999,430.7	1.0
11/17/2014 14:45	13.9	-0.3	0.0	-0.9	1,534.9	140.7	3,002,756.4	1.0
11/17/2014 14:46	13.9	-0.3	0.0	-0.9	1,529.9	140.9	2,992,974.8	1.0
11/17/2014 14:47	13.9	-0.3	0.0	-0.9	1,532.2	140.8	2,997,474.3	1.0
11/17/2014 14:48	13.9	-0.3	0.0	-0.9	1,530.9	140.8	2,994,931.1	1.0
11/17/2014 14:49	13.9	-0.3	0.0	-0.9	1,528.3	140.6	2,989,844.7	1.0
11/17/2014 14:50	13.9	-0.3	0.0	-0.9	1,528.3	140.4	2,989,844.7	1.0
11/17/2014 14:51	13.9	-0.3	0.0	-0.9	1,530.6	140.2	2,994,344.2	1.0
11/17/2014 14:52	13.9	-0.3	0.0	-0.9	1,529.9	140.4	2,992,974.8	1.0
11/17/2014 14:53	13.9	-0.3	0.0	-0.9	1,532.6	140.4	2,998,256.9	1.0
11/17/2014 14:54	13.9	-0.2	0.0	-0.6	1,529.2	140.3	2,991,605.4	1.0

RATA Data Report

CT1

R1 mid

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:12 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 14:55	13.9	-0.2	0.0	-0.6	1,522.6	140.3	2,978,693.7	1.0
11/17/2014 14:56	13.9	-0.2	0.0	-0.6	1,523.3	140.2	2,980,063.1	1.0
11/17/2014 14:57	13.9	-0.2	0.0	-0.6	1,521.6	139.9	2,976,737.3	1.0
11/17/2014 14:58	13.9	-0.2	0.0	-0.6	1,518.6	140.0	2,970,868.4	1.0
11/17/2014 14:59	13.9	-0.2	0.0	-0.6	1,520.6	139.8	2,974,781.0	1.1
11/17/2014 15:00	13.9	-0.2	0.0	-0.6	1,517.0	139.8	2,967,738.3	1.0
11/17/2014 15:01	13.9	-0.2	0.0	-0.6	1,515.3	139.7	2,964,412.5	1.0
11/17/2014 15:02	13.9	-0.3	0.0	-0.9	1,517.0	139.5	2,967,738.3	1.0
11/17/2014 15:03	13.9	-0.3	0.0	-0.9	1,514.3	139.4	2,962,456.2	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	-0.3	0.0	-0.8	1,528.5	140.5	2,990,220.5	1.0

RATA Data Report

CT1

R1 mid

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 14:26	0.0	-0.9	13.9	13.9	140.5	14,790.4	110.0	1.0
11/17/2014 14:27	0.0	-0.9	13.9	13.9	140.8	14,800.0	109.8	1.0
11/17/2014 14:28	0.0	-0.9	13.9	13.9	140.8	14,822.4	110.0	1.0
11/17/2014 14:29	0.0	-0.9	13.9	13.9	140.8	14,777.6	109.9	1.0
11/17/2014 14:30	0.0	-0.9	13.9	13.9	141.1	14,780.8	110.8	1.0
11/17/2014 14:31	0.0	-0.6	13.9	13.9	141.0	14,790.4	110.8	1.0
11/17/2014 14:32	0.0	-0.6	13.9	13.9	141.0	14,812.8	109.7	1.0
11/17/2014 14:33	0.0	-0.6	13.9	13.9	141.0	14,835.2	110.3	1.0
11/17/2014 14:34	0.0	-0.6	13.9	13.9	140.9	14,784.0	110.4	1.0
11/17/2014 14:35	0.0	-0.6	13.9	13.9	140.5	14,761.6	111.2	1.0
11/17/2014 14:36	0.0	-0.6	13.9	13.9	140.5	14,745.6	110.8	1.0
11/17/2014 14:37	0.0	-0.6	13.9	13.9	140.6	14,748.8	110.5	1.0
11/17/2014 14:38	0.0	-0.6	13.9	13.9	140.4	14,764.8	111.2	1.0
11/17/2014 14:39	0.0	-0.6	13.9	13.9	140.5	14,784.0	110.2	1.0
11/17/2014 14:40	0.0	-0.6	13.9	13.9	141.1	14,848.0	110.6	1.0
11/17/2014 14:41	0.0	-0.9	13.9	13.9	141.1	14,838.4	111.4	1.0
11/17/2014 14:42	0.0	-0.9	13.9	13.9	140.8	14,822.4	111.7	1.0
11/17/2014 14:43	0.0	-0.9	13.9	13.9	140.7	14,819.2	110.5	1.0
11/17/2014 14:44	0.0	-0.9	13.9	13.9	141.0	14,809.6	111.8	1.0
11/17/2014 14:45	0.0	-0.9	13.9	13.9	140.7	14,825.6	111.0	1.0
11/17/2014 14:46	0.0	-0.9	13.9	13.9	140.9	14,777.6	111.0	1.0
11/17/2014 14:47	0.0	-0.9	13.9	13.9	140.8	14,800.0	111.5	1.0
11/17/2014 14:48	0.0	-0.9	13.9	13.9	140.8	14,787.2	110.0	1.0
11/17/2014 14:49	0.0	-0.9	13.9	13.9	140.6	14,761.6	111.4	1.0
11/17/2014 14:50	0.0	-0.9	13.9	13.9	140.4	14,761.6	111.4	1.0
11/17/2014 14:51	0.0	-0.9	13.9	13.9	140.2	14,784.0	110.7	1.0
11/17/2014 14:52	0.0	-0.9	13.9	13.9	140.4	14,777.6	110.8	1.0
11/17/2014 14:53	0.0	-0.9	13.9	13.9	140.4	14,803.2	110.6	1.0
11/17/2014 14:54	0.0	-0.6	13.9	13.9	140.3	14,771.2	109.9	1.0

RATA Data Report

CT1

R1 mid

COLUSA GENERATING STATION

From: 11/17/2014 14:26 **To:** 11/17/2014 15:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 14:55	0.0	-0.6	13.9	13.9	140.3	14,707.2	111.5	1.0
11/17/2014 14:56	0.0	-0.6	13.9	13.9	140.2	14,713.6	110.9	1.0
11/17/2014 14:57	0.0	-0.6	13.9	13.9	139.9	14,697.6	110.6	1.0
11/17/2014 14:58	0.0	-0.6	13.9	13.9	140.0	14,668.8	110.8	1.0
11/17/2014 14:59	0.0	-0.6	13.9	13.9	139.8	14,688.0	111.6	1.1
11/17/2014 15:00	0.0	-0.6	13.9	13.9	139.8	14,652.8	110.1	1.0
11/17/2014 15:01	0.0	-0.6	13.9	13.9	139.7	14,636.8	110.4	1.0
11/17/2014 15:02	0.0	-0.9	13.9	13.9	139.5	14,652.8	109.8	1.0
11/17/2014 15:03	0.0	-0.9	13.9	13.9	139.4	14,627.2	110.8	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.8	13.9	13.9	140.5	14,764.0	110.7	1.0

RATA Data Report

CT1

R2 mid

COLUSA GENERATING STATION

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 15:16	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:17	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:18	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:19	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:20	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:21	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:22	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:23	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:24	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:25	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:26	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:27	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:28	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:29	13.9	1.0	0.8	0.003	4.5	9.5	11.3	13.9
11/17/2014 15:30	13.9	1.0	0.8	0.003	4.5	9.5	11.3	13.9
11/17/2014 15:31	13.9	1.0	0.8	0.003	4.5	9.5	11.3	13.9
11/17/2014 15:32	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:33	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:34	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:35	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:36	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:37	13.9	1.0	0.8	0.003	4.6	9.5	11.1	14.0
11/17/2014 15:38	13.9	1.0	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 15:39	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 15:40	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 15:41	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 15:42	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 15:43	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:44	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9

RATA Data Report

CT1

R2 mid

COLUSA GENERATING STATION

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 15:45	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:46	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 15:47	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:48	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:49	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:50	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:51	13.9	1.0	0.8	0.003	4.6	9.5	11.3	13.9
11/17/2014 15:52	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9
11/17/2014 15:53	13.9	1.0	0.8	0.003	4.5	9.5	11.3	13.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	1.0	0.8	0.003	4.6	9.4	11.2	13.9

RATA Data Report

CT1

R2 mid

COLUSA GENERATING STATION

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:14 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 15:16	13.9	-0.2	0.0	-0.6	1,530.2	141.0	2,993,561.7	1.0
11/17/2014 15:17	13.9	-0.2	0.0	-0.6	1,526.9	141.0	2,987,105.8	1.0
11/17/2014 15:18	13.9	-0.2	0.0	-0.6	1,525.6	141.0	2,984,562.6	1.0
11/17/2014 15:19	13.9	-0.3	0.0	-0.9	1,527.6	141.2	2,988,475.3	1.0
11/17/2014 15:20	13.9	-0.2	0.0	-0.6	1,528.6	141.1	2,990,431.6	1.0
11/17/2014 15:21	13.9	-0.2	0.0	-0.6	1,532.2	141.3	2,997,474.3	1.0
11/17/2014 15:22	13.9	-0.2	0.0	-0.6	1,527.6	140.7	2,988,475.3	1.0
11/17/2014 15:23	13.9	-0.2	0.0	-0.6	1,521.6	140.3	2,976,737.3	1.0
11/17/2014 15:24	13.9	-0.2	0.0	-0.6	1,517.6	140.1	2,968,912.1	1.0
11/17/2014 15:25	13.9	-0.2	0.0	-0.6	1,518.6	140.0	2,970,868.4	1.0
11/17/2014 15:26	13.9	-0.2	0.0	-0.6	1,521.6	140.0	2,976,737.3	1.0
11/17/2014 15:27	13.9	-0.3	0.0	-0.9	1,520.3	140.0	2,974,194.1	1.0
11/17/2014 15:28	13.9	-0.3	0.0	-0.9	1,519.3	139.6	2,972,237.8	1.0
11/17/2014 15:29	13.9	-0.3	0.0	-0.9	1,513.0	139.2	2,959,913.0	1.0
11/17/2014 15:30	13.9	-0.3	0.0	-0.9	1,511.7	139.2	2,957,369.8	1.0
11/17/2014 15:31	13.9	-0.3	0.0	-0.9	1,512.0	138.7	2,957,956.7	1.0
11/17/2014 15:32	13.9	-0.3	0.0	-0.9	1,527.9	141.0	2,989,062.2	1.0
11/17/2014 15:33	13.9	-0.3	0.0	-0.9	1,530.9	141.1	2,994,931.1	1.0
11/17/2014 15:34	13.9	-0.3	0.0	-0.9	1,520.0	140.4	2,973,607.2	1.0
11/17/2014 15:35	13.9	-0.3	0.0	-0.9	1,517.6	139.8	2,968,912.1	1.0
11/17/2014 15:36	13.9	-0.3	0.0	-0.9	1,519.6	139.8	2,972,824.7	1.0
11/17/2014 15:37	13.9	-0.3	0.0	-0.9	1,518.3	139.8	2,970,281.5	1.0
11/17/2014 15:38	13.9	-0.3	0.0	-0.9	1,515.3	139.8	2,964,412.5	1.0
11/17/2014 15:39	13.9	-0.2	0.0	-0.6	1,522.3	140.1	2,978,106.8	1.0
11/17/2014 15:40	13.9	-0.3	0.0	-0.9	1,523.9	140.3	2,981,236.9	1.0
11/17/2014 15:41	13.9	-0.3	0.0	-0.9	1,519.6	140.4	2,972,824.7	1.0
11/17/2014 15:42	13.9	-0.3	0.0	-0.9	1,524.3	140.6	2,982,019.4	1.0
11/17/2014 15:43	13.9	-0.2	0.0	-0.6	1,527.6	140.6	2,988,475.3	1.0
11/17/2014 15:44	13.9	-0.2	0.0	-0.6	1,522.3	140.7	2,978,106.8	1.0

RATA Data Report
CT1

R2 mid

COLUSA GENERATING STATION

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:14 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, Mwe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 15:45	13.9	-0.2	0.0	-0.6	1,524.6	140.7	2,982,606.3	1.0
11/17/2014 15:46	13.9	-0.2	0.0	-0.6	1,528.9	140.9	2,991,018.5	1.0
11/17/2014 15:47	13.9	-0.2	0.0	-0.6	1,528.3	140.9	2,989,844.7	1.0
11/17/2014 15:48	13.9	-0.2	0.0	-0.6	1,527.6	140.9	2,988,475.3	1.0
11/17/2014 15:49	13.9	-0.3	0.0	-0.9	1,523.6	141.0	2,980,650.0	1.0
11/17/2014 15:50	13.9	-0.3	0.0	-0.9	1,526.3	141.1	2,985,932.1	1.0
11/17/2014 15:51	13.9	-0.3	0.0	-0.9	1,529.9	141.1	2,992,974.8	1.0
11/17/2014 15:52	13.9	-0.3	0.0	-0.9	1,521.3	140.3	2,976,150.5	1.0
11/17/2014 15:53	13.9	-0.3	0.0	-0.9	1,511.0	139.4	2,956,000.3	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	-0.3	0.0	-0.8	1,522.8	140.4	2,979,038.6	1.0

RATA Data Report
CT1

R2 mid

COLUSA GENERATING STATION

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 15:16	0.0	-0.6	13.9	13.9	141.0	14,780.8	111.5	1.0
11/17/2014 15:17	0.0	-0.6	13.9	13.9	141.0	14,748.8	110.6	1.0
11/17/2014 15:18	0.0	-0.6	13.9	13.9	141.0	14,736.0	110.7	1.0
11/17/2014 15:19	0.0	-0.9	13.9	13.9	141.2	14,755.2	111.0	1.0
11/17/2014 15:20	0.0	-0.6	13.9	13.9	141.1	14,764.8	111.1	1.0
11/17/2014 15:21	0.0	-0.6	13.9	13.9	141.3	14,800.0	111.0	1.0
11/17/2014 15:22	0.0	-0.6	13.9	13.9	140.7	14,755.2	111.0	1.0
11/17/2014 15:23	0.0	-0.6	13.9	13.9	140.3	14,697.6	110.5	1.0
11/17/2014 15:24	0.0	-0.6	13.9	13.9	140.1	14,659.2	110.6	1.0
11/17/2014 15:25	0.0	-0.6	13.9	13.9	140.0	14,668.8	110.0	1.0
11/17/2014 15:26	0.0	-0.6	13.9	13.9	140.0	14,697.6	110.5	1.0
11/17/2014 15:27	0.0	-0.9	13.9	13.9	140.0	14,684.8	110.0	1.0
11/17/2014 15:28	0.0	-0.9	13.9	13.9	139.6	14,675.2	111.3	1.0
11/17/2014 15:29	0.0	-0.9	13.9	13.9	139.2	14,614.4	110.0	1.0
11/17/2014 15:30	0.0	-0.9	13.9	13.9	139.2	14,601.6	110.1	1.0
11/17/2014 15:31	0.0	-0.9	13.9	13.9	138.7	14,604.8	109.7	1.0
11/17/2014 15:32	0.0	-0.9	13.9	13.9	141.0	14,758.4	110.8	1.0
11/17/2014 15:33	0.0	-0.9	13.9	13.9	141.1	14,787.2	111.4	1.0
11/17/2014 15:34	0.0	-0.9	13.9	13.9	140.4	14,681.6	110.1	1.0
11/17/2014 15:35	0.0	-0.9	13.9	13.9	139.8	14,659.2	110.8	1.0
11/17/2014 15:36	0.0	-0.9	13.9	13.9	139.8	14,678.4	109.1	1.0
11/17/2014 15:37	0.0	-0.9	13.9	14.0	139.8	14,665.6	109.7	1.0
11/17/2014 15:38	0.0	-0.9	13.9	13.9	139.8	14,636.8	109.4	1.0
11/17/2014 15:39	0.0	-0.6	13.9	13.9	140.1	14,704.0	110.0	1.0
11/17/2014 15:40	0.0	-0.9	13.9	13.9	140.3	14,720.0	110.3	1.0
11/17/2014 15:41	0.0	-0.9	13.9	13.9	140.4	14,678.4	109.8	1.0
11/17/2014 15:42	0.0	-0.9	13.9	13.9	140.6	14,723.2	110.7	1.0
11/17/2014 15:43	0.0	-0.6	13.9	13.9	140.6	14,755.2	111.1	1.0
11/17/2014 15:44	0.0	-0.6	13.9	13.9	140.7	14,704.0	110.1	1.0

RATA Data Report
CT1

From: 11/17/2014 15:16 **To:** 11/17/2014 15:53 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:26 **Location:** Maxwell, CA

R2 mid

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 15:45	0.0	-0.6	13.9	13.9	140.7	14,726.4	110.8	1.0
11/17/2014 15:46	0.0	-0.6	13.9	13.9	140.9	14,768.0	110.5	1.0
11/17/2014 15:47	0.0	-0.6	13.9	13.9	140.9	14,761.6	111.1	1.0
11/17/2014 15:48	0.0	-0.6	13.9	13.9	140.9	14,755.2	111.8	1.0
11/17/2014 15:49	0.0	-0.9	13.9	13.9	141.0	14,716.8	110.8	1.0
11/17/2014 15:50	0.0	-0.9	13.9	13.9	141.1	14,742.4	111.6	1.0
11/17/2014 15:51	0.0	-0.9	13.9	13.9	141.1	14,777.6	110.2	1.0
11/17/2014 15:52	0.0	-0.9	13.9	13.9	140.3	14,694.4	110.9	1.0
11/17/2014 15:53	0.0	-0.9	13.9	13.9	139.4	14,595.2	110.3	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.8	13.9	13.9	140.4	14,708.8	110.6	1.0

RATA Data Report

CT1

R3 mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:03 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 16:03	13.9	1.0	0.8	0.003	4.5	9.4	11.1	13.9
11/17/2014 16:04	13.9	1.0	0.8	0.003	4.5	9.4	11.1	13.9
11/17/2014 16:05	13.9	1.0	0.8	0.003	4.5	9.4	11.1	13.9
11/17/2014 16:06	13.9	1.0	0.8	0.003	4.5	9.4	11.1	13.9
11/17/2014 16:07	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:08	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:09	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:10	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:11	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:12	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:13	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:14	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:15	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:16	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:17	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:18	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:19	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:20	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:21	13.9	1.0	0.8	0.003	4.6	9.4	11.1	13.9
11/17/2014 16:22	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:23	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:24	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:25	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:26	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:27	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:28	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:29	13.9	1.0	0.8	0.003	4.5	9.2	10.9	13.9
11/17/2014 16:30	13.9	1.0	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:31	13.9	0.9	0.8	0.003	4.5	9.3	11.0	13.9

RATA Data Report

CT1

R3 mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:03 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 16:32	13.9	0.9	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:33	13.9	0.9	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:34	13.9	0.9	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:35	13.9	0.9	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:36	13.9	1.0	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:37	13.9	1.0	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:38	13.9	1.0	0.8	0.003	4.5	9.3	11.0	13.9
11/17/2014 16:39	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
11/17/2014 16:40	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	1.0	0.8	0.003	4.6	9.3	11.0	13.9

RATA Data Report

CT1

R3 mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:15 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:03	13.9	-0.3	0.0	-0.9	1,516.3	139.4	2,966,368.8	1.0
11/17/2014 16:04	13.9	-0.2	0.0	-0.6	1,515.3	139.4	2,964,412.5	1.0
11/17/2014 16:05	13.9	-0.2	0.0	-0.6	1,516.0	139.4	2,965,782.0	1.0
11/17/2014 16:06	13.9	-0.2	0.0	-0.6	1,516.3	139.8	2,966,368.8	1.0
11/17/2014 16:07	13.9	-0.2	0.0	-0.6	1,518.6	140.1	2,970,868.4	1.0
11/17/2014 16:08	13.9	-0.2	0.0	-0.6	1,523.0	140.8	2,979,476.2	1.0
11/17/2014 16:09	13.9	-0.3	0.0	-0.9	1,528.6	141.0	2,990,431.6	1.0
11/17/2014 16:10	13.9	-0.3	0.0	-0.9	1,530.2	141.1	2,993,561.7	1.0
11/17/2014 16:11	13.9	-0.3	0.0	-0.9	1,528.6	141.1	2,990,431.6	1.0
11/17/2014 16:12	13.9	-0.3	0.0	-0.9	1,528.3	140.8	2,989,844.7	1.0
11/17/2014 16:13	13.9	-0.3	0.0	-0.9	1,522.3	140.7	2,978,106.8	1.0
11/17/2014 16:14	13.9	-0.3	0.0	-0.9	1,526.9	140.6	2,987,105.8	1.0
11/17/2014 16:15	13.9	-0.3	0.0	-0.9	1,526.9	140.6	2,987,105.8	1.0
11/17/2014 16:16	13.9	-0.3	0.0	-0.9	1,527.9	140.7	2,989,062.2	1.0
11/17/2014 16:17	13.9	-0.3	0.0	-0.9	1,523.3	140.8	2,980,063.1	1.0
11/17/2014 16:18	13.9	-0.3	0.0	-0.9	1,522.3	140.6	2,978,106.8	1.0
11/17/2014 16:19	13.9	-0.3	0.0	-0.9	1,519.0	140.4	2,971,650.9	1.1
11/17/2014 16:20	13.9	-0.3	0.0	-0.9	1,520.6	140.7	2,974,781.0	1.0
11/17/2014 16:21	13.9	-0.3	0.0	-0.9	1,526.9	140.6	2,987,105.8	1.0
11/17/2014 16:22	13.9	-0.3	0.0	-0.9	1,527.6	140.6	2,988,475.3	1.0
11/17/2014 16:23	13.9	-0.3	0.0	-0.9	1,526.9	140.6	2,987,105.8	1.0
11/17/2014 16:24	13.9	-0.3	0.0	-0.9	1,526.3	141.1	2,985,932.1	1.0
11/17/2014 16:25	13.9	-0.3	0.0	-0.9	1,529.6	141.1	2,992,387.9	1.0
11/17/2014 16:26	13.9	-0.2	0.0	-0.6	1,523.9	140.5	2,981,236.9	1.0
11/17/2014 16:27	13.9	-0.3	0.0	-0.9	1,518.6	140.5	2,970,868.4	1.0
11/17/2014 16:28	13.9	-0.3	0.0	-0.9	1,518.6	140.0	2,970,868.4	1.0
11/17/2014 16:29	13.9	-0.3	0.0	-0.9	1,515.0	139.7	2,963,825.6	1.0
11/17/2014 16:30	13.9	-0.3	0.0	-0.9	1,516.3	139.3	2,966,368.8	1.0
11/17/2014 16:31	13.9	-0.3	0.0	-0.9	1,513.0	139.2	2,959,913.0	1.0

RATA Data Report

CT1

R3 - mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:15 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:32	13.9	-0.3	0.0	-0.9	1,515.0	139.4	2,963,825.6	1.0
11/17/2014 16:33	13.9	-0.3	0.0	-0.9	1,516.0	139.2	2,965,782.0	1.0
11/17/2014 16:34	13.9	-0.3	0.0	-0.9	1,515.0	138.9	2,963,825.6	1.0
11/17/2014 16:35	13.9	-0.3	0.0	-0.9	1,510.0	138.9	2,954,044.0	1.0
11/17/2014 16:36	13.9	-0.3	0.0	-0.9	1,510.7	139.1	2,955,413.5	1.0
11/17/2014 16:37	13.9	-0.3	0.0	-0.9	1,515.3	139.7	2,964,412.5	1.0
11/17/2014 16:38	13.9	-0.2	0.0	-0.6	1,515.7	140.0	2,965,195.1	1.0
11/17/2014 16:39	13.9	-0.3	0.0	-0.9	1,520.6	139.9	2,974,781.0	1.0
11/17/2014 16:40	13.9	-0.3	0.0	-0.9	1,518.0	140.7	2,969,694.6	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.9	-0.3	0.0	-0.8	1,520.8	140.2	2,975,120.8	1.0

RATA Data Report

CT1

R3 mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:03	0.0	-0.9	13.9	13.9	139.4	14,646.4	109.7	1.0
11/17/2014 16:04	0.0	-0.6	13.9	13.9	139.4	14,636.8	109.7	1.0
11/17/2014 16:05	0.0	-0.6	13.9	13.9	139.4	14,643.2	110.4	1.0
11/17/2014 16:06	0.0	-0.6	13.9	13.9	139.8	14,646.4	109.8	1.0
11/17/2014 16:07	0.0	-0.6	13.9	13.9	140.1	14,668.8	109.8	1.0
11/17/2014 16:08	0.0	-0.6	13.9	13.9	140.8	14,710.4	110.9	1.0
11/17/2014 16:09	0.0	-0.9	13.9	13.9	141.0	14,764.8	110.3	1.0
11/17/2014 16:10	0.0	-0.9	13.9	13.9	141.1	14,780.8	111.4	1.0
11/17/2014 16:11	0.0	-0.9	13.9	13.9	141.1	14,764.8	109.9	1.0
11/17/2014 16:12	0.0	-0.9	13.9	13.9	140.8	14,761.6	110.4	1.0
11/17/2014 16:13	0.0	-0.9	13.9	13.9	140.7	14,704.0	110.8	1.0
11/17/2014 16:14	0.0	-0.9	13.9	13.9	140.6	14,748.8	110.8	1.0
11/17/2014 16:15	0.0	-0.9	13.9	13.9	140.6	14,748.8	110.6	1.0
11/17/2014 16:16	0.0	-0.9	13.9	13.9	140.7	14,758.4	109.9	1.0
11/17/2014 16:17	0.0	-0.9	13.9	13.9	140.8	14,713.6	110.7	1.0
11/17/2014 16:18	0.0	-0.9	13.9	13.9	140.6	14,704.0	110.3	1.0
11/17/2014 16:19	0.0	-0.9	13.9	13.9	140.4	14,672.0	111.5	1.1
11/17/2014 16:20	0.0	-0.9	13.9	13.9	140.7	14,688.0	110.3	1.0
11/17/2014 16:21	0.0	-0.9	13.9	13.9	140.6	14,748.8	111.0	1.0
11/17/2014 16:22	0.0	-0.9	13.9	13.9	140.6	14,755.2	110.4	1.0
11/17/2014 16:23	0.0	-0.9	13.9	13.9	140.6	14,748.8	109.7	1.0
11/17/2014 16:24	0.0	-0.9	13.9	13.9	141.1	14,742.4	110.9	1.0
11/17/2014 16:25	0.0	-0.9	13.9	13.9	141.1	14,774.4	111.0	1.0
11/17/2014 16:26	0.0	-0.6	13.9	13.9	140.5	14,720.0	110.7	1.0
11/17/2014 16:27	0.0	-0.9	13.9	13.9	140.5	14,668.8	110.1	1.0
11/17/2014 16:28	0.0	-0.9	13.9	13.9	140.0	14,668.8	109.8	1.0
11/17/2014 16:29	0.0	-0.9	13.9	13.9	139.7	14,633.6	110.1	1.0
11/17/2014 16:30	0.0	-0.9	13.9	13.9	139.3	14,646.4	109.9	1.0
11/17/2014 16:31	0.0	-0.9	13.9	13.9	139.2	14,614.4	110.3	1.0

RATA Data Report
CT1

R3 mid

COLUSA GENERATING STATION

From: 11/17/2014 16:03 **To:** 11/17/2014 16:40 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:32	0.0	-0.9	13.9	13.9	139.4	14,633.6	109.2	1.0
11/17/2014 16:33	0.0	-0.9	13.9	13.9	139.2	14,643.2	109.2	1.0
11/17/2014 16:34	0.0	-0.9	13.9	13.9	138.9	14,633.6	109.9	1.0
11/17/2014 16:35	0.0	-0.9	13.9	13.9	138.9	14,585.6	108.8	1.0
11/17/2014 16:36	0.0	-0.9	13.9	13.9	139.1	14,592.0	109.0	1.0
11/17/2014 16:37	0.0	-0.9	13.9	13.9	139.7	14,636.8	109.3	1.0
11/17/2014 16:38	0.0	-0.6	13.9	13.9	140.0	14,640.0	110.3	1.0
11/17/2014 16:39	0.0	-0.9	13.9	13.9	139.9	14,688.0	109.2	1.0
11/17/2014 16:40	0.0	-0.9	13.9	13.9	140.7	14,662.4	110.4	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.8	13.9	13.9	140.2	14,689.4	110.2	1.0

RATA Data Report

CT1

R1 BASE

COLUSA GENERATING STATION

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:04 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 16:57	13.7	1.2	1.0	0.004	7.3	9.2	11.2	13.7
11/17/2014 16:58	13.7	1.2	1.0	0.004	7.3	9.2	11.2	13.7
11/17/2014 16:59	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:00	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:01	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:02	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:03	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:04	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:05	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:06	13.7	1.2	1.0	0.004	7.3	9.2	11.2	13.7
11/17/2014 17:07	13.7	1.2	1.0	0.004	7.3	9.1	11.1	13.7
11/17/2014 17:08	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:09	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:10	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:11	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:12	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:13	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:14	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:15	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:16	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:17	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:18	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:19	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:20	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:21	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:22	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:23	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:24	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:25	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7

RATA Data Report

CT1

R1 BASE

COLUSA GENERATING STATION

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:04 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 17:26	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:27	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:28	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:29	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:30	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:31	13.7	1.1	0.9	0.003	5.5	9.2	11.2	13.7
11/17/2014 17:32	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:33	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:34	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:35	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:36	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:37	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:38	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
Valid Data Points	42	42	42	42	42	42	42	42
Average:	13.7	1.1	0.9	0.003	6.0	9.1	11.1	13.7

RATA Data Report

CT1

R1 BASE

COLUSA GENERATING STATION

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:16 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:57	13.7	-0.2	0.0	-0.7	1,829.7	177.0	3,480,049.7	1.0
11/17/2014 16:58	13.7	-0.2	0.0	-0.7	1,828.4	177.0	3,477,577.1	1.0
11/17/2014 16:59	13.7	-0.2	0.0	-0.7	1,827.7	177.1	3,476,245.8	1.0
11/17/2014 17:00	13.7	-0.2	0.0	-0.7	1,826.7	177.1	3,474,343.8	1.0
11/17/2014 17:01	13.7	-0.2	0.0	-0.7	1,830.1	177.1	3,480,810.5	1.0
11/17/2014 17:02	13.7	-0.2	0.0	-0.7	1,829.4	177.2	3,479,479.1	1.0
11/17/2014 17:03	13.7	-0.2	0.0	-0.7	1,828.7	177.2	3,478,147.7	1.0
11/17/2014 17:04	13.7	-0.2	0.0	-0.7	1,829.7	177.3	3,480,049.7	1.0
11/17/2014 17:05	13.7	-0.3	0.0	-1.0	1,829.1	177.4	3,478,908.5	1.0
11/17/2014 17:06	13.7	-0.3	0.0	-1.0	1,831.7	177.6	3,483,853.7	1.0
11/17/2014 17:07	13.7	-0.3	0.0	-1.0	1,831.4	177.5	3,483,283.1	1.0
11/17/2014 17:08	13.7	-0.3	0.0	-1.0	1,832.0	177.6	3,484,424.3	1.0
11/17/2014 17:09	13.7	-0.3	0.0	-1.0	1,831.4	177.4	3,483,283.1	1.0
11/17/2014 17:10	13.7	-0.3	0.0	-1.0	1,832.7	177.4	3,485,755.7	1.0
11/17/2014 17:11	13.7	-0.3	0.0	-1.0	1,831.7	177.5	3,483,853.7	1.0
11/17/2014 17:12	13.7	-0.3	0.0	-1.0	1,830.1	177.4	3,480,810.5	1.0
11/17/2014 17:13	13.7	-0.3	0.0	-1.0	1,831.7	177.5	3,483,853.7	1.0
11/17/2014 17:14	13.7	-0.3	0.0	-1.0	1,829.1	177.7	3,478,908.5	1.0
11/17/2014 17:15	13.7	-0.3	0.0	-1.0	1,830.4	177.6	3,481,381.1	1.0
11/17/2014 17:16	13.7	-0.3	0.0	-1.0	1,831.7	177.5	3,483,853.7	1.0
11/17/2014 17:17	13.7	-0.3	0.0	-1.0	1,830.1	177.6	3,480,810.5	1.0
11/17/2014 17:18	13.7	-0.2	0.0	-0.7	1,830.4	177.5	3,481,381.1	1.0
11/17/2014 17:19	13.7	-0.2	0.0	-0.7	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 17:20	13.7	-0.2	0.0	-0.7	1,831.7	177.7	3,483,853.7	1.0
11/17/2014 17:21	13.7	-0.2	0.0	-0.7	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 17:22	13.7	-0.2	0.0	-0.7	1,832.4	177.9	3,485,185.1	1.0
11/17/2014 17:23	13.7	-0.2	0.0	-0.7	1,832.7	177.7	3,485,755.7	1.0
11/17/2014 17:24	13.7	-0.2	0.0	-0.7	1,830.1	177.7	3,480,810.5	1.0
11/17/2014 17:25	13.7	-0.2	0.0	-0.7	1,829.1	177.6	3,478,908.5	1.0

RATA Data Report

CT1

R1 Base

COLUSA GENERATING STATION

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:16 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 17:26	13.7	-0.2	0.0	-0.7	1,831.7	177.6	3,483,853.7	1.0
11/17/2014 17:27	13.7	-0.2	0.0	-0.7	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 17:28	13.7	-0.2	0.0	-0.7	1,832.4	177.7	3,485,185.1	1.0
11/17/2014 17:29	13.7	-0.3	0.0	-1.0	1,829.7	177.8	3,480,049.7	1.0
11/17/2014 17:30	13.7	-0.3	0.0	-1.0	1,832.0	177.8	3,484,424.3	1.0
11/17/2014 17:31	13.7	-0.3	0.0	-1.0	1,832.7	177.6	3,485,755.7	1.0
11/17/2014 17:32	13.7	-0.2	0.0	-0.7	1,831.1	177.7	3,482,712.5	1.0
11/17/2014 17:33	13.7	-0.2	0.0	-0.7	1,831.7	177.7	3,483,853.7	1.0
11/17/2014 17:34	13.7	-0.3	0.0	-1.0	1,833.0	177.8	3,486,326.2	1.0
11/17/2014 17:35	13.7	-0.3	0.0	-1.0	1,831.1	177.5	3,482,712.5	1.0
11/17/2014 17:36	13.7	-0.3	0.0	-1.0	1,836.4	177.8	3,492,793.0	1.0
11/17/2014 17:37	13.7	-0.3	0.0	-1.0	1,833.4	177.7	3,487,087.0	1.0
11/17/2014 17:38	13.7	-0.3	0.0	-1.0	1,831.7	177.6	3,483,853.7	1.0
Valid Data Points	42	42	42	42	42	42	42	42
Average:	13.7	-0.3	0.0	-0.9	1,831.0	177.5	3,482,517.8	1.0

RATA Data Report

CT1

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:27 **Location:** Maxwell, CA

Red = Sample Invalid

R1 BASE

COLUSA GENERATING STATION

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 16:57	0.0	-0.7	13.7	13.7	177.0	17,673.6	128.1	1.0
11/17/2014 16:58	0.0	-0.7	13.7	13.7	177.0	17,660.8	126.3	1.0
11/17/2014 16:59	0.0	-0.7	13.7	13.7	177.1	17,654.4	126.4	1.0
11/17/2014 17:00	0.0	-0.7	13.7	13.7	177.1	17,644.8	126.7	1.0
11/17/2014 17:01	0.0	-0.7	13.7	13.7	177.1	17,676.8	126.9	1.0
11/17/2014 17:02	0.0	-0.7	13.7	13.7	177.2	17,670.4	127.6	1.0
11/17/2014 17:03	0.0	-0.7	13.7	13.7	177.2	17,664.0	127.2	1.0
11/17/2014 17:04	0.0	-0.7	13.7	13.7	177.3	17,673.6	127.6	1.0
11/17/2014 17:05	0.0	-1.0	13.7	13.7	177.4	17,667.2	127.8	1.0
11/17/2014 17:06	0.0	-1.0	13.7	13.7	177.6	17,692.8	128.0	1.0
11/17/2014 17:07	0.0	-1.0	13.7	13.7	177.5	17,689.6	128.0	1.0
11/17/2014 17:08	0.0	-1.0	13.7	13.7	177.6	17,696.0	128.5	1.0
11/17/2014 17:09	0.0	-1.0	13.7	13.7	177.4	17,689.6	128.3	1.0
11/17/2014 17:10	0.0	-1.0	13.7	13.7	177.4	17,702.4	128.3	1.0
11/17/2014 17:11	0.0	-1.0	13.7	13.7	177.5	17,692.8	128.9	1.0
11/17/2014 17:12	0.0	-1.0	13.7	13.7	177.4	17,676.8	128.3	1.0
11/17/2014 17:13	0.0	-1.0	13.7	13.7	177.5	17,692.8	128.5	1.0
11/17/2014 17:14	0.0	-1.0	13.7	13.7	177.7	17,667.2	128.4	1.0
11/17/2014 17:15	0.0	-1.0	13.7	13.7	177.6	17,680.0	128.5	1.0
11/17/2014 17:16	0.0	-1.0	13.7	13.7	177.5	17,692.8	128.6	1.0
11/17/2014 17:17	0.0	-1.0	13.7	13.7	177.6	17,676.8	129.2	1.0
11/17/2014 17:18	0.0	-0.7	13.7	13.7	177.5	17,680.0	128.3	1.0
11/17/2014 17:19	0.0	-0.7	13.7	13.7	177.8	17,692.8	128.3	1.0
11/17/2014 17:20	0.0	-0.7	13.7	13.7	177.7	17,692.8	128.6	1.0
11/17/2014 17:21	0.0	-0.7	13.7	13.7	177.8	17,692.8	128.7	1.0
11/17/2014 17:22	0.0	-0.7	13.7	13.7	177.9	17,699.2	128.9	1.0
11/17/2014 17:23	0.0	-0.7	13.7	13.7	177.7	17,702.4	128.8	1.0
11/17/2014 17:24	0.0	-0.7	13.7	13.7	177.7	17,676.8	128.7	1.0
11/17/2014 17:25	0.0	-0.7	13.7	13.7	177.6	17,667.2	128.6	1.0

RATA Data Report

CT1

From: 11/17/2014 16:57 **To:** 11/17/2014 17:38 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:27 **Location:** Maxwell, CA

R1 BASE

COLUSA GENERATING STATION

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, lbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 17:26	0.0	-0.7	13.7	13.7	177.6	17,692.8	128.5	1.0
11/17/2014 17:27	0.0	-0.7	13.7	13.7	177.8	17,692.8	128.9	1.0
11/17/2014 17:28	0.0	-0.7	13.7	13.7	177.7	17,699.2	129.0	1.0
11/17/2014 17:29	0.0	-1.0	13.7	13.7	177.8	17,673.6	128.9	1.0
11/17/2014 17:30	0.0	-1.0	13.7	13.7	177.8	17,696.0	129.2	1.0
11/17/2014 17:31	0.0	-1.0	13.7	13.7	177.6	17,702.4	129.1	1.0
11/17/2014 17:32	0.0	-0.7	13.7	13.7	177.7	17,686.4	129.1	1.0
11/17/2014 17:33	0.0	-0.7	13.7	13.7	177.7	17,692.8	128.5	1.0
11/17/2014 17:34	0.0	-1.0	13.7	13.7	177.8	17,705.6	128.8	1.0
11/17/2014 17:35	0.0	-1.0	13.7	13.7	177.5	17,686.4	129.2	1.0
11/17/2014 17:36	0.0	-1.0	13.7	13.7	177.8	17,737.6	128.4	1.0
11/17/2014 17:37	0.0	-1.0	13.7	13.7	177.7	17,708.8	128.9	1.0
11/17/2014 17:38	0.0	-1.0	13.7	13.7	177.6	17,692.8	128.7	1.0
Valid Data Points	42	42	42	42	42	42	42	42
Average:	0.0	-0.9	13.7	13.7	177.5	17,685.9	128.3	1.0

RATA Data Report

CT1

R2 BASE

COLUSA GENERATING STATION

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:04 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 17:49	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:50	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:51	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 17:52	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 17:53	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:54	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:55	13.7	1.1	0.9	0.003	5.5	9.1	11.1	13.7
11/17/2014 17:56	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 17:57	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 17:58	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 17:59	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:00	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:01	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:02	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:03	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:04	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:05	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:06	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:07	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:08	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:09	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:10	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:11	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:12	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:13	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:14	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:15	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:16	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:17	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7

RATA Data Report

CT1

R2
BASE

COLUSA GENERATING STATION

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:04 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 18:18	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:19	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:20	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:21	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:22	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:23	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:24	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7
11/17/2014 18:25	13.7	1.1	0.9	0.003	5.5	8.9	10.9	13.7
11/17/2014 18:26	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	1.1	0.9	0.003	5.5	9.0	11.0	13.7

RATA Data Report

CT1

R2
BASE

COLUSA GENERATING STATION

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:17 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 17:49	13.7	-0.3	0.0	-1.0	1,832.0	177.6	3,484,424.3	1.0
11/17/2014 17:50	13.7	-0.2	0.0	-0.7	1,829.1	177.5	3,478,908.5	1.0
11/17/2014 17:51	13.7	-0.2	0.0	-0.7	1,831.1	177.5	3,482,712.5	1.0
11/17/2014 17:52	13.7	-0.3	0.0	-1.0	1,828.7	177.5	3,478,147.7	1.0
11/17/2014 17:53	13.7	-0.3	0.0	-1.0	1,831.4	177.4	3,483,283.1	1.0
11/17/2014 17:54	13.7	-0.3	0.0	-1.0	1,829.1	177.4	3,478,908.5	1.0
11/17/2014 17:55	13.7	-0.3	0.0	-1.0	1,833.0	177.3	3,486,326.2	1.0
11/17/2014 17:56	13.7	-0.3	0.0	-1.0	1,830.7	177.4	3,481,951.7	1.0
11/17/2014 17:57	13.7	-0.3	0.0	-1.0	1,827.7	177.3	3,476,245.8	1.0
11/17/2014 17:58	13.7	-0.3	0.0	-1.0	1,829.4	177.4	3,479,479.1	1.0
11/17/2014 17:59	13.7	-0.3	0.0	-1.0	1,827.7	177.5	3,476,245.8	1.0
11/17/2014 18:00	13.7	-0.3	0.0	-1.0	1,831.4	177.3	3,483,283.1	1.0
11/17/2014 18:01	13.7	-0.3	0.0	-1.0	1,832.0	177.4	3,484,424.3	1.0
11/17/2014 18:02	13.7	-0.3	0.0	-1.0	1,830.1	177.5	3,480,810.5	1.0
11/17/2014 18:03	13.7	-0.3	0.0	-1.0	1,833.7	177.5	3,487,657.6	1.0
11/17/2014 18:04	13.7	-0.3	0.0	-1.0	1,830.7	177.4	3,481,951.7	1.0
11/17/2014 18:05	13.7	-0.3	0.0	-1.0	1,834.4	177.6	3,488,989.0	1.0
11/17/2014 18:06	13.7	-0.3	0.0	-1.0	1,830.4	177.6	3,481,381.1	1.0
11/17/2014 18:07	13.7	-0.3	0.0	-1.0	1,833.4	177.5	3,487,087.0	1.0
11/17/2014 18:08	13.7	-0.3	0.0	-1.0	1,829.4	177.7	3,479,479.1	1.0
11/17/2014 18:09	13.7	-0.2	0.0	-0.7	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 18:10	13.7	-0.2	0.0	-0.7	1,832.7	177.7	3,485,755.7	1.0
11/17/2014 18:11	13.7	-0.2	0.0	-0.7	1,833.7	177.6	3,487,657.6	1.0
11/17/2014 18:12	13.7	-0.2	0.0	-0.7	1,830.1	177.6	3,480,810.5	1.0
11/17/2014 18:13	13.7	-0.2	0.0	-0.7	1,830.7	177.7	3,481,951.7	1.0
11/17/2014 18:14	13.7	-0.2	0.0	-0.7	1,833.0	177.6	3,486,326.2	1.0
11/17/2014 18:15	13.7	-0.2	0.0	-0.7	1,831.4	177.8	3,483,283.1	1.0
11/17/2014 18:16	13.7	-0.2	0.0	-0.7	1,832.0	177.7	3,484,424.3	1.0
11/17/2014 18:17	13.7	-0.2	0.0	-0.7	1,830.7	177.7	3,481,951.7	1.0

RATA Data Report
CT1

R2
BASE

COLUSA GENERATING STATION

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:17 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 18:18	13.7	-0.3	0.0	-1.0	1,831.7	177.7	3,483,853.7	1.0
11/17/2014 18:19	13.7	-0.3	0.0	-1.0	1,835.7	177.7	3,491,461.6	1.0
11/17/2014 18:20	13.7	-0.3	0.0	-1.0	1,834.7	177.8	3,489,559.6	1.0
11/17/2014 18:21	13.7	-0.3	0.0	-1.0	1,833.0	177.9	3,486,326.2	1.0
11/17/2014 18:22	13.7	-0.3	0.0	-1.0	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 18:23	13.7	-0.3	0.0	-1.0	1,832.4	177.8	3,485,185.1	1.0
11/17/2014 18:24	13.7	-0.3	0.0	-1.0	1,834.0	177.8	3,488,228.2	1.0
11/17/2014 18:25	13.7	-0.3	0.0	-1.0	1,831.1	177.9	3,482,712.5	1.0
11/17/2014 18:26	13.7	-0.3	0.0	-1.0	1,831.7	177.8	3,483,853.7	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	-0.3	0.0	-0.9	1,831.5	177.6	3,483,493.3	1.0

RATA Data Report

CT1

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:28 **Location:** Maxwell, CA

R2 BASE

COLUSA GENERATING STATION

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 17:49	0.0	-1.0	13.7	13.7	177.6	17,696.0	128.7	1.0
11/17/2014 17:50	0.0	-0.7	13.7	13.7	177.5	17,667.2	128.6	1.0
11/17/2014 17:51	0.0	-0.7	13.7	13.7	177.5	17,686.4	128.9	1.0
11/17/2014 17:52	0.0	-1.0	13.7	13.7	177.5	17,664.0	128.6	1.0
11/17/2014 17:53	0.0	-1.0	13.7	13.7	177.4	17,689.6	128.3	1.0
11/17/2014 17:54	0.0	-1.0	13.7	13.7	177.4	17,667.2	128.5	1.0
11/17/2014 17:55	0.0	-1.0	13.7	13.7	177.3	17,705.6	128.2	1.0
11/17/2014 17:56	0.0	-1.0	13.7	13.7	177.4	17,683.2	128.7	1.0
11/17/2014 17:57	0.0	-1.0	13.7	13.7	177.3	17,654.4	128.9	1.0
11/17/2014 17:58	0.0	-1.0	13.7	13.7	177.4	17,670.4	128.0	1.0
11/17/2014 17:59	0.0	-1.0	13.7	13.7	177.5	17,654.4	128.0	1.0
11/17/2014 18:00	0.0	-1.0	13.7	13.7	177.3	17,689.6	128.5	1.0
11/17/2014 18:01	0.0	-1.0	13.7	13.7	177.4	17,696.0	128.3	1.0
11/17/2014 18:02	0.0	-1.0	13.7	13.7	177.5	17,676.8	128.8	1.0
11/17/2014 18:03	0.0	-1.0	13.7	13.7	177.5	17,712.0	129.1	1.0
11/17/2014 18:04	0.0	-1.0	13.7	13.7	177.4	17,683.2	128.5	1.0
11/17/2014 18:05	0.0	-1.0	13.7	13.7	177.6	17,718.4	128.0	1.0
11/17/2014 18:06	0.0	-1.0	13.7	13.7	177.6	17,680.0	128.2	1.0
11/17/2014 18:07	0.0	-1.0	13.7	13.7	177.5	17,708.8	128.3	1.0
11/17/2014 18:08	0.0	-1.0	13.7	13.7	177.7	17,670.4	128.9	1.0
11/17/2014 18:09	0.0	-0.7	13.7	13.7	177.8	17,692.8	129.0	1.0
11/17/2014 18:10	0.0	-0.7	13.7	13.7	177.7	17,702.4	128.7	1.0
11/17/2014 18:11	0.0	-0.7	13.7	13.7	177.6	17,712.0	128.7	1.0
11/17/2014 18:12	0.0	-0.7	13.7	13.7	177.6	17,676.8	128.5	1.0
11/17/2014 18:13	0.0	-0.7	13.7	13.7	177.7	17,683.2	128.2	1.0
11/17/2014 18:14	0.0	-0.7	13.7	13.7	177.6	17,705.6	128.8	1.0
11/17/2014 18:15	0.0	-0.7	13.7	13.7	177.8	17,689.6	128.7	1.0
11/17/2014 18:16	0.0	-0.7	13.7	13.7	177.7	17,696.0	128.7	1.0
11/17/2014 18:17	0.0	-0.7	13.7	13.7	177.7	17,683.2	128.6	1.0

RATA Data Report

CT1

From: 11/17/2014 17:49 **To:** 11/17/2014 18:26 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:28 **Location:** Maxwell, CA

f2 Base

COLUSA GENERATING STATION

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 18:18	0.0	-1.0	13.7	13.7	177.7	17,692.8	128.3	1.0
11/17/2014 18:19	0.0	-1.0	13.7	13.7	177.7	17,731.2	128.5	1.0
11/17/2014 18:20	0.0	-1.0	13.7	13.7	177.8	17,721.6	128.3	1.0
11/17/2014 18:21	0.0	-1.0	13.7	13.7	177.9	17,705.6	128.7	1.0
11/17/2014 18:22	0.0	-1.0	13.7	13.7	177.8	17,692.8	128.6	1.0
11/17/2014 18:23	0.0	-1.0	13.7	13.7	177.8	17,699.2	128.3	1.0
11/17/2014 18:24	0.0	-1.0	13.7	13.7	177.8	17,715.2	128.3	1.0
11/17/2014 18:25	0.0	-1.0	13.7	13.7	177.9	17,686.4	128.7	1.0
11/17/2014 18:26	0.0	-1.0	13.7	13.7	177.8	17,692.8	128.0	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.9	13.7	13.7	177.6	17,690.9	128.5	1.0

RATA Data Report

CT1

R3 BASE

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:05 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 18:36	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:37	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:38	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:39	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:40	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:41	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:42	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:43	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:44	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:45	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:46	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:47	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:48	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:49	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:50	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:51	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:52	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:53	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:54	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:55	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:56	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:57	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:58	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 18:59	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:00	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:01	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:02	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:03	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:04	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7

RATA Data Report

CT1

R3 BASE

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:05 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/17/2014 19:05	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:06	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:07	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:08	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:09	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:10	13.7	1.1	0.9	0.003	5.5	8.8	10.7	13.7
11/17/2014 19:11	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:12	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
11/17/2014 19:13	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	1.1	0.9	0.003	5.5	8.9	10.8	13.7

RATA Data Report

CT1

R3 BASE

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:17 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 18:36	13.7	-0.2	0.0	-0.7	1,836.7	177.8	3,493,363.6	1.0
11/17/2014 18:37	13.7	-0.2	0.0	-0.7	1,83[illegible].1	177.9	3,482,712.5	1.0
11/17/2014 18:38	13.7	-0.2	0.0	-0.7	1,832.7	177.8	3,485,755.7	1.0
11/17/2014 18:39	13.7	-0.2	0.0	-0.7	1,834.4	177.7	3,488,989.0	1.0
11/17/2014 18:40	13.7	-0.2	0.0	-0.7	1,834.4	177.8	3,488,989.0	1.0
11/17/2014 18:41	13.7	-0.2	0.0	-0.7	1,833.7	177.9	3,487,657.6	1.0
11/17/2014 18:42	13.7	-0.2	0.0	-0.7	1,832.4	177.9	3,485,185.1	1.0
11/17/2014 18:43	13.7	-0.2	0.0	-0.7	1,835.7	177.9	3,491,461.6	1.0
11/17/2014 18:44	13.7	-0.3	0.0	-1.0	1,830.1	177.9	3,480,810.5	1.0
11/17/2014 18:45	13.7	-0.3	0.0	-1.0	1,833.0	178.0	3,486,326.2	1.0
11/17/2014 18:46	13.7	-0.3	0.0	-1.0	1,833.7	178.0	3,487,657.6	1.0
11/17/2014 18:47	13.7	-0.3	0.0	-1.0	1,834.0	178.1	3,488,228.2	1.0
11/17/2014 18:48	13.7	-0.3	0.0	-1.0	1,833.0	178.0	3,486,326.2	1.0
11/17/2014 18:49	13.7	-0.3	0.0	-1.0	1,835.4	178.1	3,490,891.0	1.0
11/17/2014 18:50	13.7	-0.3	0.0	-1.0	1,833.4	177.9	3,487,087.0	1.0
11/17/2014 18:51	13.7	-0.3	0.0	-1.0	1,832.7	177.9	3,485,755.7	1.0
11/17/2014 18:52	13.7	-0.3	0.0	-1.0	1,831.7	177.8	3,483,853.7	1.0
11/17/2014 18:53	13.7	-0.2	0.0	-0.7	1,831.7	177.9	3,483,853.7	1.0
11/17/2014 18:54	13.7	-0.2	0.0	-0.7	1,834.4	177.8	3,488,989.0	1.0
11/17/2014 18:55	13.7	-0.3	0.0	-1.0	1,831.7	177.9	3,483,853.7	1.0
11/17/2014 18:56	13.7	-0.3	0.0	-1.0	1,831.4	177.9	3,483,283.1	1.0
11/17/2014 18:57	13.7	-0.3	0.0	-1.0	1,834.7	177.9	3,489,559.6	1.0
11/17/2014 18:58	13.7	-0.2	0.0	-0.7	1,834.4	178.1	3,488,989.0	1.0
11/17/2014 18:59	13.7	-0.2	0.0	-0.7	1,835.7	178.1	3,491,461.6	1.0
11/17/2014 19:00	13.7	-0.3	0.0	-1.0	1,836.4	178.1	3,492,793.0	1.0
11/17/2014 19:01	13.7	-0.3	0.0	-1.0	1,837.3	178.2	3,494,504.8	1.0
11/17/2014 19:02	13.7	-0.2	0.0	-0.7	1,832.7	178.2	3,485,755.7	1.0
11/17/2014 19:03	13.7	-0.2	0.0	-0.7	1,834.0	178.2	3,488,228.2	1.0
11/17/2014 19:04	13.7	-0.2	0.0	-0.7	1,835.0	178.2	3,490,130.2	1.0

RATA Data Report

CT1

R3 BASE

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:17 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 19:05	13.7	-0.2	0.0	-0.7	1,834.7	178.1	3,489,559.6	1.0
11/17/2014 19:06	13.7	-0.2	0.0	-0.7	1,832.7	178.1	3,485,755.7	1.0
11/17/2014 19:07	13.7	-0.2	0.0	-0.7	1,834.7	178.1	3,489,559.6	1.0
11/17/2014 19:08	13.7	-0.2	0.0	-0.7	1,836.7	178.0	3,493,363.6	1.0
11/17/2014 19:09	13.7	-0.2	0.0	-0.7	1,834.4	177.9	3,488,989.0	1.0
11/17/2014 19:10	13.7	-0.2	0.0	-0.7	1,831.1	178.0	3,482,712.5	1.0
11/17/2014 19:11	13.7	-0.3	0.0	-1.0	1,833.0	177.9	3,486,326.2	1.0
11/17/2014 19:12	13.7	-0.3	0.0	-1.0	1,834.4	177.9	3,488,989.0	1.0
11/17/2014 19:13	13.7	-0.3	0.0	-1.0	1,836.7	177.8	3,493,363.6	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	-0.2	0.0	-0.8	1,833.8	178.0	3,487,922.9	1.0

RATA Data Report

CT1

R3 BASE

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:29 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 18:36	0.0	-0.7	13.7	13.7	177.8	17,740.8	128.0	1.0
11/17/2014 18:37	0.0	-0.7	13.7	13.7	177.9	17,686.4	128.4	1.0
11/17/2014 18:38	0.0	-0.7	13.7	13.7	177.8	17,702.4	128.0	1.0
11/17/2014 18:39	0.0	-0.7	13.7	13.7	177.7	17,718.4	128.2	1.0
11/17/2014 18:40	0.0	-0.7	13.7	13.7	177.8	17,718.4	127.9	1.0
11/17/2014 18:41	0.0	-0.7	13.7	13.7	177.9	17,712.0	128.3	1.0
11/17/2014 18:42	0.0	-0.7	13.7	13.7	177.9	17,699.2	128.2	1.0
11/17/2014 18:43	0.0	-0.7	13.7	13.7	177.9	17,731.2	128.4	1.0
11/17/2014 18:44	0.0	-1.0	13.7	13.7	177.9	17,676.8	128.0	1.0
11/17/2014 18:45	0.0	-1.0	13.7	13.7	178.0	17,705.6	128.3	1.0
11/17/2014 18:46	0.0	-1.0	13.7	13.7	178.0	17,712.0	127.8	1.0
11/17/2014 18:47	0.0	-1.0	13.7	13.7	178.1	17,715.2	128.3	1.0
11/17/2014 18:48	0.0	-1.0	13.7	13.7	178.0	17,705.6	128.0	1.0
11/17/2014 18:49	0.0	-1.0	13.7	13.7	178.1	17,728.0	128.1	1.0
11/17/2014 18:50	0.0	-1.0	13.7	13.7	177.9	17,708.8	128.2	1.0
11/17/2014 18:51	0.0	-1.0	13.7	13.7	177.9	17,702.4	128.1	1.0
11/17/2014 18:52	0.0	-1.0	13.7	13.7	177.8	17,692.8	128.1	1.0
11/17/2014 18:53	0.0	-0.7	13.7	13.7	177.9	17,692.8	127.9	1.0
11/17/2014 18:54	0.0	-0.7	13.7	13.7	177.8	17,718.4	128.2	1.0
11/17/2014 18:55	0.0	-1.0	13.7	13.7	177.9	17,692.8	128.5	1.0
11/17/2014 18:56	0.0	-1.0	13.7	13.7	177.9	17,689.6	128.5	1.0
11/17/2014 18:57	0.0	-1.0	13.7	13.7	177.9	17,721.6	127.9	1.0
11/17/2014 18:58	0.0	-0.7	13.7	13.7	178.1	17,718.4	128.0	1.0
11/17/2014 18:59	0.0	-0.7	13.7	13.7	178.1	17,731.2	128.3	1.0
11/17/2014 19:00	0.0	-1.0	13.7	13.7	178.1	17,737.6	128.6	1.0
11/17/2014 19:01	0.0	-1.0	13.7	13.7	178.2	17,747.2	128.3	1.0
11/17/2014 19:02	0.0	-0.7	13.7	13.7	178.2	17,702.4	128.1	1.0
11/17/2014 19:03	0.0	-0.7	13.7	13.7	178.2	17,715.2	128.3	1.0
11/17/2014 19:04	0.0	-0.7	13.7	13.7	178.2	17,724.8	128.3	1.0

RATA Data Report
CT1

R3 Base

COLUSA GENERATING STATION

From: 11/17/2014 18:36 **To:** 11/17/2014 19:13 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/18/2014 13:29 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/17/2014 19:05	0.0	-0.7	13.7	13.7	178.1	17,721.6	127.9	1.0
11/17/2014 19:06	0.0	-0.7	13.7	13.7	178.1	17,702.4	128.3	1.0
11/17/2014 19:07	0.0	-0.7	13.7	13.7	178.1	17,721.6	128.4	1.0
11/17/2014 19:08	0.0	-0.7	13.7	13.7	178.0	17,740.8	128.2	1.0
11/17/2014 19:09	0.0	-0.7	13.7	13.7	177.9	17,718.4	127.6	1.0
11/17/2014 19:10	0.0	-0.7	13.7	13.7	178.0	17,686.4	127.9	1.0
11/17/2014 19:11	0.0	-1.0	13.7	13.7	177.9	17,705.6	128.2	1.0
11/17/2014 19:12	0.0	-1.0	13.7	13.7	177.9	17,718.4	127.8	1.0
11/17/2014 19:13	0.0	-1.0	13.7	13.7	177.8	17,740.8	128.1	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-0.8	13.7	13.7	178.0	17,713.3	128.1	1.0

RATA Data Report

CT1

R1

COLUSA GENERATING STATION

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:07 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 08:16	11.8	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:17	11.8	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:18	11.8	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:19	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:20	11.8	1.6	1.0	0.004	9.0	9.2	11.7	13.4
11/18/2014 08:21	11.8	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:22	11.8	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 08:23	11.8	1.3	0.8	0.003	6.7	9.3	11.8	13.4
11/18/2014 08:24	11.8	1.3	0.8	0.003	6.7	9.3	11.8	13.4
11/18/2014 08:25	11.8	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 08:26	11.8	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:27	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:28	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:29	11.8	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:30	11.8	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:31	11.7	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:32	11.7	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:33	11.7	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:34	11.7	1.4	0.9	0.003	6.7	9.4	11.9	13.4
11/18/2014 08:35	11.7	1.3	0.8	0.003	6.7	9.4	11.9	13.4
11/18/2014 08:36	11.7	1.3	0.8	0.003	6.8	9.4	11.9	13.4
11/18/2014 08:37	11.7	1.3	0.8	0.003	6.7	9.4	11.9	13.4
11/18/2014 08:38	11.7	1.4	0.9	0.003	6.8	9.4	11.9	13.4
11/18/2014 08:39	11.7	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:40	11.7	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:41	11.7	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:42	11.7	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:43	11.7	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 08:44	11.7	1.7	1.1	0.004	9.0	9.4	11.9	13.4

RATA Data Report

CT1

R1

COLUSA GENERATING STATION

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:07 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 08:45	11.7	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:46	11.7	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:47	11.7	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 08:48	11.7	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 08:49	11.7	1.3	0.8	0.003	6.8	9.2	11.7	13.4
11/18/2014 08:50	11.7	1.3	0.8	0.003	6.8	9.2	11.7	13.4
11/18/2014 08:51	11.7	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 08:52	11.7	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 08:53	11.7	1.6	1.0	0.004	9.0	9.3	11.8	13.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.7	1.5	1.0	0.004	8.2	9.3	11.8	13.4

RATA Data Report

CT1

R1

COLUSA GENERATING STATION

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:30 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 08:16	0.2	1.0	11.8	13.4	177.0	21,746.4	170.2	1.5
11/18/2014 08:17	0.2	1.0	11.8	13.4	176.8	21,732.8	181.0	1.6
11/18/2014 08:18	0.2	1.0	11.8	13.4	177.0	21,737.8	187.5	1.6
11/18/2014 08:19	0.2	1.0	11.8	13.4	176.9	21,728.4	195.1	1.7
11/18/2014 08:20	0.2	1.0	11.8	13.4	176.7	21,714.1	202.1	1.8
11/18/2014 08:21	0.2	1.0	11.8	13.4	176.7	21,740.5	197.8	1.7
11/18/2014 08:22	0.2	1.0	11.8	13.4	176.7	21,745.4	181.5	1.6
11/18/2014 08:23	0.2	1.0	11.8	13.4	176.6	21,720.8	164.9	1.4
11/18/2014 08:24	0.2	1.0	11.8	13.4	176.5	21,721.7	163.5	1.4
11/18/2014 08:25	0.2	1.0	11.8	13.4	176.5	21,745.9	163.9	1.4
11/18/2014 08:26	0.2	1.0	11.8	13.4	176.5	21,707.4	162.3	1.4
11/18/2014 08:27	0.2	1.0	11.8	13.4	176.4	21,740.5	163.4	1.4
11/18/2014 08:28	0.2	1.0	11.8	13.4	176.3	21,743.7	171.7	1.5
11/18/2014 08:29	0.2	1.0	11.8	13.4	176.2	21,711.1	176.1	1.5
11/18/2014 08:30	0.2	1.0	11.8	13.4	176.1	21,717.9	190.2	1.7
11/18/2014 08:31	0.2	1.0	11.7	13.4	176.0	21,749.4	201.4	1.8
11/18/2014 08:32	0.2	1.0	11.7	13.4	176.0	21,737.5	206.7	1.8
11/18/2014 08:33	0.2	1.0	11.7	13.4	176.1	21,716.9	203.4	1.8
11/18/2014 08:34	0.2	1.0	11.7	13.4	175.8	21,721.2	195.0	1.7
11/18/2014 08:35	0.2	1.0	11.7	13.4	175.9	21,731.7	173.1	1.5
11/18/2014 08:36	0.2	1.0	11.7	13.4	175.9	21,736.5	164.6	1.4
11/18/2014 08:37	0.2	1.0	11.7	13.4	175.9	21,717.5	164.7	1.4
11/18/2014 08:38	0.2	1.0	11.7	13.4	176.1	21,737.2	163.8	1.4
11/18/2014 08:39	0.2	1.0	11.7	13.4	176.2	21,737.8	164.8	1.4
11/18/2014 08:40	0.2	1.0	11.7	13.4	176.2	21,732.1	169.3	1.5
11/18/2014 08:41	0.2	1.0	11.7	13.4	176.3	21,746.4	170.9	1.5
11/18/2014 08:42	0.2	1.0	11.7	13.4	176.3	21,737.8	175.3	1.5
11/18/2014 08:43	0.2	1.0	11.7	13.4	176.3	21,723.3	183.8	1.6
11/18/2014 08:44	0.2	1.0	11.7	13.4	176.3	21,752.0	191.5	1.7

RATA Data Report

CT1

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:30 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 08:45	0.2	1.0	11.7	13.4	176.3	21,758.5	198.1	1.8
11/18/2014 08:46	0.2	1.0	11.7	13.4	176.3	21,756.0	199.3	1.8
11/18/2014 08:47	0.2	1.0	11.7	13.4	176.4	21,765.4	191.7	1.7
11/18/2014 08:48	0.2	1.0	11.7	13.4	176.4	21,735.9	173.5	1.5
11/18/2014 08:49	0.2	1.0	11.7	13.4	176.5	21,740.3	165.1	1.4
11/18/2014 08:50	0.2	1.0	11.7	13.4	176.6	21,757.7	163.8	1.4
11/18/2014 08:51	0.2	1.0	11.7	13.4	176.7	21,764.6	164.1	1.4
11/18/2014 08:52	0.2	1.0	11.7	13.4	176.9	21,746.9	163.5	1.4
11/18/2014 08:53	0.2	1.0	11.7	13.4	177.2	21,777.0	164.0	1.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.2	1.0	11.7	13.4	176.4	21,737.7	178.5	1.6

RATA Data Report

CT1

R1

COLUSA GENERATING STATION

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:18 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 08:16	11.8	0.3	0.2	1.0	2,251.4	177.0	3,388,046.2	1.5
11/18/2014 08:17	11.8	0.3	0.2	1.0	2,250.0	176.8	3,385,939.4	1.6
11/18/2014 08:18	11.8	0.3	0.2	1.0	2,250.5	177.0	3,386,691.8	1.6
11/18/2014 08:19	11.8	0.3	0.2	1.0	2,249.5	176.9	3,385,187.0	1.7
11/18/2014 08:20	11.8	0.3	0.2	1.0	2,248.0	176.7	3,382,929.7	1.8
11/18/2014 08:21	11.8	0.3	0.2	1.0	2,250.8	176.7	3,387,143.3	1.7
11/18/2014 08:22	11.8	0.3	0.2	1.0	2,251.3	176.7	3,387,895.7	1.6
11/18/2014 08:23	11.8	0.3	0.2	1.0	2,248.7	176.6	3,383,983.1	1.4
11/18/2014 08:24	11.8	0.3	0.2	1.0	2,248.8	176.5	3,384,133.6	1.4
11/18/2014 08:25	11.8	0.3	0.2	1.0	2,251.3	176.5	3,387,895.7	1.4
11/18/2014 08:26	11.8	0.3	0.2	1.0	2,247.3	176.5	3,381,876.3	1.4
11/18/2014 08:27	11.8	0.3	0.2	1.0	2,250.8	176.4	3,387,143.3	1.4
11/18/2014 08:28	11.8	0.3	0.2	1.0	2,251.1	176.3	3,387,594.8	1.5
11/18/2014 08:29	11.8	0.3	0.2	1.0	2,247.7	176.2	3,382,478.2	1.5
11/18/2014 08:30	11.8	0.3	0.2	1.0	2,248.4	176.1	3,383,531.6	1.7
11/18/2014 08:31	11.7	0.3	0.2	1.0	2,251.7	176.0	3,351,666.2	1.8
11/18/2014 08:32	11.7	0.3	0.2	1.0	2,250.5	176.0	3,349,880.0	1.8
11/18/2014 08:33	11.7	0.3	0.2	1.0	2,248.3	176.1	3,346,605.3	1.8
11/18/2014 08:34	11.7	0.3	0.2	1.0	2,248.8	175.8	3,347,349.5	1.7
11/18/2014 08:35	11.7	0.3	0.2	1.0	2,249.9	175.9	3,348,986.9	1.5
11/18/2014 08:36	11.7	0.3	0.2	1.0	2,250.4	175.9	3,349,731.1	1.4
11/18/2014 08:37	11.7	0.3	0.2	1.0	2,248.4	175.9	3,346,754.1	1.4
11/18/2014 08:38	11.7	0.3	0.2	1.0	2,250.4	176.1	3,349,731.1	1.4
11/18/2014 08:39	11.7	0.3	0.2	1.0	2,250.5	176.2	3,349,880.0	1.4
11/18/2014 08:40	11.7	0.3	0.2	1.0	2,249.9	176.2	3,348,986.9	1.5
11/18/2014 08:41	11.7	0.3	0.2	1.0	2,251.4	176.3	3,351,219.6	1.5
11/18/2014 08:42	11.7	0.3	0.2	1.0	2,250.5	176.3	3,349,880.0	1.5
11/18/2014 08:43	11.7	0.3	0.2	1.0	2,249.0	176.3	3,347,647.2	1.6
11/18/2014 08:44	11.7	0.3	0.2	1.0	2,252.0	176.3	3,352,112.7	1.7

RATA Data Report

CT1

From: 11/18/2014 08:16 **To:** 11/18/2014 08:53 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:18 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 08:45	11.7	0.3	0.2	1.0	2,252.6	176.3	3,353,005.8	1.8
11/18/2014 08:46	11.7	0.3	0.2	1.0	2,252.4	176.3	3,352,708.1	1.8
11/18/2014 08:47	11.7	0.3	0.2	1.0	2,253.3	176.4	3,354,047.8	1.7
11/18/2014 08:48	11.7	0.3	0.2	1.0	2,250.3	176.4	3,349,582.3	1.5
11/18/2014 08:49	11.7	0.3	0.2	1.0	2,250.7	176.5	3,350,177.7	1.4
11/18/2014 08:50	11.7	0.3	0.2	1.0	2,252.5	176.6	3,352,857.0	1.4
11/18/2014 08:51	11.7	0.3	0.2	1.0	2,253.3	176.7	3,354,047.8	1.4
11/18/2014 08:52	11.7	0.3	0.2	1.0	2,251.4	176.9	3,351,219.6	1.4
11/18/2014 08:53	11.7	0.3	0.2	1.0	2,254.5	177.2	3,355,834.0	1.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.7	0.3	0.2	1.0	2,250.5	176.4	3,364,378.4	1.6

R2

RATA Data Report

CT1

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 09:06	11.8	1.6	1.0	0.004	9.0	9.0	11.6	13.3
11/18/2014 09:07	11.8	1.6	1.0	0.004	9.0	9.0	11.6	13.3
11/18/2014 09:08	11.8	1.6	1.0	0.004	9.0	9.0	11.6	13.3
11/18/2014 09:09	11.8	1.6	1.0	0.004	9.0	9.0	11.6	13.3
11/18/2014 09:10	11.8	1.6	1.0	0.004	9.0	9.0	11.6	13.3
11/18/2014 09:11	11.8	1.6	1.0	0.004	9.0	9.1	11.7	13.3
11/18/2014 09:12	11.8	1.5	1.0	0.004	9.0	9.2	11.7	13.4
11/18/2014 09:13	11.8	1.5	1.0	0.004	9.0	9.2	11.7	13.4
11/18/2014 09:14	11.8	1.5	1.0	0.004	9.0	9.2	11.7	13.4
11/18/2014 09:15	11.8	1.5	1.0	0.004	9.0	9.1	11.7	13.3
11/18/2014 09:16	11.8	1.5	1.0	0.004	9.0	9.1	11.6	13.4
11/18/2014 09:17	11.8	1.6	1.0	0.004	9.0	9.2	11.7	13.4
11/18/2014 09:18	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:19	11.8	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:20	11.8	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:21	11.8	1.7	1.1	0.004	9.0	9.2	11.7	13.4
11/18/2014 09:22	11.8	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:23	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:24	11.8	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:25	11.8	1.3	0.8	0.003	6.7	9.3	11.8	13.4
11/18/2014 09:26	11.8	1.3	0.8	0.003	6.7	9.2	11.8	13.3
11/18/2014 09:27	11.8	1.2	0.8	0.003	6.7	9.2	11.8	13.3
11/18/2014 09:28	11.8	1.3	0.8	0.003	6.8	9.3	11.8	13.4
11/18/2014 09:29	11.8	1.4	0.9	0.003	6.8	9.3	11.8	13.4
11/18/2014 09:30	11.8	1.5	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:31	11.8	1.6	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:32	11.8	1.6	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:33	11.8	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 09:34	11.8	1.7	1.1	0.004	9.0	9.2	11.9	13.3

RATA Data Report

CT1

R2

COLUSA GENERATING STATION

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 09:35	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 09:36	11.7	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:37	11.7	1.5	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:38	11.7	1.4	0.9	0.003	6.7	9.2	11.8	13.3
11/18/2014 09:39	11.7	1.3	0.8	0.003	6.7	9.2	11.8	13.3
11/18/2014 09:40	11.8	1.3	0.8	0.003	6.7	9.3	11.8	13.4
11/18/2014 09:41	11.8	1.4	0.9	0.003	6.7	9.3	11.8	13.4
11/18/2014 09:42	11.8	1.5	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 09:43	11.8	1.6	1.0	0.004	9.0	9.3	11.8	13.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.8	1.5	1.0	0.004	8.5	9.2	11.8	13.4

RATA Data Report

CT1

R2

COLUSA GENERATING STATION

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:31 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:06	0.2	1.0	11.8	13.3	178.4	21,726.1	166.8	1.4
11/18/2014 09:07	0.2	1.0	11.8	13.3	178.5	21,754.9	168.3	1.5
11/18/2014 09:08	0.2	1.0	11.8	13.3	178.8	21,735.2	173.9	1.5
11/18/2014 09:09	0.2	1.0	11.8	13.3	178.5	21,731.0	177.0	1.5
11/18/2014 09:10	0.2	1.0	11.8	13.3	178.4	21,704.5	180.4	1.6
11/18/2014 09:11	0.2	1.0	11.8	13.3	178.4	21,726.7	182.3	1.6
11/18/2014 09:12	0.2	1.0	11.8	13.4	178.5	21,728.4	179.4	1.6
11/18/2014 09:13	0.2	1.0	11.8	13.4	178.1	21,703.1	173.7	1.5
11/18/2014 09:14	0.2	1.0	11.8	13.4	177.8	21,669.4	161.8	1.4
11/18/2014 09:15	0.2	1.0	11.8	13.3	177.9	21,678.3	161.5	1.4
11/18/2014 09:16	0.2	1.0	11.8	13.4	177.7	21,680.6	160.8	1.4
11/18/2014 09:17	0.2	1.0	11.8	13.4	177.6	21,704.1	161.4	1.4
11/18/2014 09:18	0.2	1.0	11.8	13.4	177.5	21,673.4	163.9	1.4
11/18/2014 09:19	0.2	1.0	11.8	13.4	177.2	21,698.7	170.5	1.5
11/18/2014 09:20	0.2	1.0	11.8	13.4	177.1	21,683.1	182.6	1.6
11/18/2014 09:21	0.2	1.0	11.8	13.4	176.9	21,712.7	191.9	1.7
11/18/2014 09:22	0.2	1.0	11.8	13.4	176.8	21,663.1	201.7	1.8
11/18/2014 09:23	0.2	1.0	11.8	13.4	176.7	21,663.7	206.8	1.8
11/18/2014 09:24	0.2	1.0	11.8	13.4	176.5	21,681.5	202.9	1.8
11/18/2014 09:25	0.2	1.0	11.8	13.4	176.6	21,680.9	187.6	1.6
11/18/2014 09:26	0.2	1.0	11.8	13.3	176.8	21,691.3	165.3	1.4
11/18/2014 09:27	0.2	1.0	11.8	13.3	176.7	21,693.0	163.3	1.4
11/18/2014 09:28	0.2	1.0	11.8	13.4	176.7	21,740.3	163.9	1.4
11/18/2014 09:29	0.2	1.0	11.8	13.4	176.7	21,741.8	163.1	1.4
11/18/2014 09:30	0.2	1.0	11.8	13.3	176.9	21,738.6	163.0	1.4
11/18/2014 09:31	0.2	1.0	11.8	13.3	176.5	21,715.4	167.2	1.4
11/18/2014 09:32	0.2	1.0	11.8	13.3	176.5	21,669.3	169.8	1.5
11/18/2014 09:33	0.2	1.0	11.8	13.4	176.5	21,718.3	180.8	1.6
11/18/2014 09:34	0.2	1.0	11.8	13.3	176.6	21,698.4	186.5	1.6

RATA Data Report

CT1

R2

COLUSA GENERATING STATION

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:31 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:35	0.2	1.0	11.7	13.3	176.8	21,731.2	196.0	1.7
11/18/2014 09:36	0.2	1.0	11.7	13.4	176.6	21,728.9	201.7	1.8
11/18/2014 09:37	0.2	1.0	11.7	13.3	177.0	21,688.0	195.4	1.7
11/18/2014 09:38	0.2	1.0	11.7	13.3	176.9	21,707.2	179.1	1.6
11/18/2014 09:39	0.2	1.0	11.7	13.3	177.0	21,694.9	165.3	1.4
11/18/2014 09:40	0.2	1.0	11.8	13.4	176.8	21,703.7	163.1	1.4
11/18/2014 09:41	0.2	1.0	11.8	13.4	176.9	21,727.8	163.6	1.4
11/18/2014 09:42	0.2	1.0	11.8	13.4	176.9	21,722.2	162.0	1.4
11/18/2014 09:43	0.2	1.0	11.8	13.4	176.5	21,719.8	163.0	1.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.2	1.0	11.8	13.4	177.2	21,706.0	175.5	1.5

R2

RATA Data Report

CT1

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:19 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:06	11.8	0.3	0.2	1.0	2,249.3	178.4	3,384,886.0	1.4
11/18/2014 09:07	11.8	0.3	0.2	1.0	2,252.3	178.5	3,389,400.6	1.5
11/18/2014 09:08	11.8	0.3	0.2	1.0	2,250.2	178.8	3,386,240.4	1.5
11/18/2014 09:09	11.8	0.3	0.2	1.0	2,249.8	178.5	3,385,638.4	1.5
11/18/2014 09:10	11.8	0.3	0.2	1.0	2,247.0	178.4	3,381,424.8	1.6
11/18/2014 09:11	11.8	0.3	0.2	1.0	2,249.3	178.4	3,384,886.0	1.6
11/18/2014 09:12	11.8	0.3	0.2	1.0	2,249.5	178.5	3,385,187.0	1.6
11/18/2014 09:13	11.8	0.3	0.2	1.0	2,246.9	178.1	3,381,274.3	1.5
11/18/2014 09:14	11.8	0.3	0.2	1.0	2,243.4	177.8	3,376,007.3	1.4
11/18/2014 09:15	11.8	0.3	0.2	1.0	2,244.3	177.9	3,377,361.7	1.4
11/18/2014 09:16	11.8	0.3	0.2	1.0	2,244.6	177.7	3,377,813.2	1.4
11/18/2014 09:17	11.8	0.3	0.2	1.0	2,247.0	177.6	3,381,424.8	1.4
11/18/2014 09:18	11.8	0.3	0.2	1.0	2,243.8	177.5	3,376,609.3	1.4
11/18/2014 09:19	11.8	0.3	0.2	1.0	2,246.4	177.2	3,380,521.9	1.5
11/18/2014 09:20	11.8	0.3	0.2	1.0	2,244.8	177.1	3,378,114.1	1.6
11/18/2014 09:21	11.8	0.3	0.2	1.0	2,247.9	176.9	3,382,779.2	1.7
11/18/2014 09:22	11.8	0.3	0.2	1.0	2,242.8	176.8	3,375,104.4	1.8
11/18/2014 09:23	11.8	0.3	0.2	1.0	2,242.8	176.7	3,375,104.4	1.8
11/18/2014 09:24	11.8	0.3	0.2	1.0	2,244.7	176.5	3,377,963.6	1.8
11/18/2014 09:25	11.8	0.3	0.2	1.0	2,244.6	176.6	3,377,813.2	1.6
11/18/2014 09:26	11.8	0.3	0.2	1.0	2,245.7	176.8	3,379,468.5	1.4
11/18/2014 09:27	11.8	0.3	0.2	1.0	2,245.9	176.7	3,379,769.5	1.4
11/18/2014 09:28	11.8	0.3	0.2	1.0	2,250.7	176.7	3,386,992.8	1.4
11/18/2014 09:29	11.8	0.3	0.2	1.0	2,250.9	176.7	3,387,293.8	1.4
11/18/2014 09:30	11.8	0.3	0.2	1.0	2,250.6	176.9	3,386,842.3	1.4
11/18/2014 09:31	11.8	0.3	0.2	1.0	2,248.2	176.5	3,383,230.7	1.4
11/18/2014 09:32	11.8	0.3	0.2	1.0	2,243.4	176.5	3,376,007.3	1.5
11/18/2014 09:33	11.8	0.3	0.2	1.0	2,248.5	176.5	3,383,682.1	1.6
11/18/2014 09:34	11.8	0.3	0.2	1.0	2,246.4	176.6	3,380,521.9	1.6

R2

RATA Data Report

CT1

From: 11/18/2014 09:06 **To:** 11/18/2014 09:43 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:19 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:35	11.7	0.3	0.2	1.0	2,249.8	176.8	3,348,838.0	1.7
11/18/2014 09:36	11.7	0.3	0.2	1.0	2,249.6	176.6	3,348,540.3	1.8
11/18/2014 09:37	11.7	0.3	0.2	1.0	2,245.3	177.0	3,342,139.7	1.7
11/18/2014 09:38	11.7	0.3	0.2	1.0	2,247.3	176.9	3,345,116.8	1.6
11/18/2014 09:39	11.7	0.3	0.2	1.0	2,246.0	177.0	3,343,181.7	1.4
11/18/2014 09:40	11.8	0.3	0.2	1.0	2,247.0	176.8	3,381,424.8	1.4
11/18/2014 09:41	11.8	0.3	0.2	1.0	2,249.5	176.9	3,385,187.0	1.4
11/18/2014 09:42	11.8	0.3	0.2	1.0	2,248.9	176.9	3,384,284.1	1.4
11/18/2014 09:43	11.8	0.3	0.2	1.0	2,248.6	176.5	3,383,832.6	1.4
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.8	0.3	0.2	1.0	2,247.2	177.2	3,376,892.3	1.5

RATA Data Report

R03

CT1

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:09 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 09:56	11.7	1.6	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:57	11.7	1.7	1.1	0.004	9.0	9.2	11.8	13.3
11/18/2014 09:58	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 09:59	11.7	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:00	11.7	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:01	11.7	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:02	11.7	1.4	0.9	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:03	11.7	1.4	0.9	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:04	11.7	1.3	0.8	0.003	6.7	9.2	11.9	13.3
11/18/2014 10:05	11.7	1.3	0.8	0.003	6.8	9.4	11.9	13.4
11/18/2014 10:06	11.7	1.4	0.9	0.003	6.7	9.4	11.9	13.4
11/18/2014 10:07	11.7	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 10:08	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:09	11.7	1.7	1.1	0.004	9.0	9.3	11.8	13.4
11/18/2014 10:10	11.7	1.7	1.1	0.004	9.0	9.2	11.8	13.3
11/18/2014 10:11	11.7	1.7	1.1	0.004	9.0	9.2	11.8	13.3
11/18/2014 10:12	11.7	1.7	1.1	0.004	9.0	9.2	11.8	13.3
11/18/2014 10:13	11.7	1.6	1.0	0.004	9.0	9.3	11.8	13.4
11/18/2014 10:14	11.7	1.5	1.0	0.004	9.0	9.2	11.8	13.3
11/18/2014 10:15	11.7	1.4	0.9	0.003	6.8	9.2	11.8	13.3
11/18/2014 10:16	11.7	1.3	0.8	0.003	6.8	9.2	11.8	13.3
11/18/2014 10:17	11.7	1.4	0.9	0.003	6.7	9.2	11.8	13.3
11/18/2014 10:18	11.7	1.4	0.9	0.003	6.8	9.2	11.8	13.3
11/18/2014 10:19	11.7	1.5	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:20	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:21	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:22	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:23	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:24	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3

RATA Data Report

CT1

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:09 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 10:25	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:26	11.7	1.4	0.9	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:27	11.7	1.4	0.9	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:28	11.7	1.3	0.8	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:29	11.7	1.3	0.8	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:30	11.7	1.4	0.9	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:31	11.7	1.5	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:32	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:33	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.7	1.5	1.0	0.004	8.2	9.2	11.9	13.3

R&3

RATA Data Report

CT1

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:56	0.2	1.0	11.7	13.3	176.1	21,759.0	169.3	1.5
11/18/2014 09:57	0.2	1.0	11.7	13.3	175.7	21,729.2	175.7	1.5
11/18/2014 09:58	0.2	1.0	11.7	13.3	175.9	21,728.5	184.7	1.6
11/18/2014 09:59	0.2	1.0	11.7	13.3	176.2	21,720.4	195.8	1.7
11/18/2014 10:00	0.2	1.0	11.7	13.3	176.0	21,785.4	204.8	1.8
11/18/2014 10:01	0.2	1.0	11.7	13.3	176.1	21,784.7	204.4	1.8
11/18/2014 10:02	0.2	1.0	11.7	13.3	176.0	21,771.2	195.5	1.7
11/18/2014 10:03	0.2	1.0	11.7	13.3	176.1	21,761.0	176.8	1.6
11/18/2014 10:04	0.1	0.6	11.7	13.3	176.0	21,732.1	164.5	1.4
11/18/2014 10:05	0.1	0.6	11.7	13.4	176.0	21,760.2	164.5	1.4
11/18/2014 10:06	0.2	1.0	11.7	13.4	176.2	21,720.7	165.5	1.4
11/18/2014 10:07	0.2	1.0	11.7	13.4	176.3	21,766.9	164.1	1.4
11/18/2014 10:08	0.2	1.0	11.7	13.3	176.1	21,791.8	168.3	1.5
11/18/2014 10:09	0.1	0.6	11.7	13.4	176.2	21,774.4	170.7	1.5
11/18/2014 10:10	0.1	0.6	11.7	13.3	176.3	21,726.1	181.6	1.6
11/18/2014 10:11	0.2	1.0	11.7	13.3	176.0	21,733.3	189.9	1.7
11/18/2014 10:12	0.2	1.0	11.7	13.3	176.1	21,781.3	197.6	1.8
11/18/2014 10:13	0.2	1.0	11.7	13.4	176.1	21,792.5	197.5	1.7
11/18/2014 10:14	0.2	1.0	11.7	13.3	175.8	21,764.8	191.0	1.7
11/18/2014 10:15	0.2	1.0	11.7	13.3	175.8	21,745.3	176.5	1.5
11/18/2014 10:16	0.2	1.0	11.7	13.3	175.6	21,767.7	163.6	1.4
11/18/2014 10:17	0.2	1.0	11.7	13.3	175.9	21,731.8	164.6	1.4
11/18/2014 10:18	0.2	1.0	11.7	13.3	176.0	21,748.6	163.8	1.4
11/18/2014 10:19	0.2	1.0	11.7	13.3	175.8	21,791.7	163.5	1.4
11/18/2014 10:20	0.2	1.0	11.7	13.3	175.8	21,754.2	168.7	1.5
11/18/2014 10:21	0.2	1.0	11.7	13.3	175.8	21,741.5	177.1	1.6
11/18/2014 10:22	0.2	1.0	11.7	13.3	175.7	21,725.6	183.0	1.6
11/18/2014 10:23	0.1	0.6	11.7	13.3	175.6	21,754.6	195.5	1.7
11/18/2014 10:24	0.1	0.6	11.7	13.3	175.5	21,722.8	204.5	1.8

RATA Data Report

CT1

R2&3

COLUSA GENERATING STATION

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:25	0.1	0.6	11.7	13.3	175.5	21,743.0	204.4	1.8
11/18/2014 10:26	0.1	0.6	11.7	13.3	175.6	21,739.0	194.1	1.7
11/18/2014 10:27	0.1	0.6	11.7	13.3	175.5	21,755.1	174.3	1.5
11/18/2014 10:28	0.1	0.6	11.7	13.3	175.4	21,783.2	166.7	1.4
11/18/2014 10:29	0.1	0.6	11.7	13.3	175.3	21,745.1	165.1	1.4
11/18/2014 10:30	0.1	0.6	11.7	13.3	175.4	21,783.5	164.3	1.4
11/18/2014 10:31	0.1	0.6	11.7	13.3	175.3	21,778.9	164.9	1.4
11/18/2014 10:32	0.1	0.6	11.7	13.3	175.4	21,753.4	167.3	1.5
11/18/2014 10:33	0.1	0.6	11.7	13.3	175.3	21,770.2	172.0	1.5
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.2	0.8	11.7	13.3	175.8	21,755.8	178.8	1.6

RATA Data Report

CT1

R3

COLUSA GENERATING STATION

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:20 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 09:56	11.7	0.3	0.2	1.0	2,252.7	176.1	3,353,154.7	1.5
11/18/2014 09:57	11.7	0.3	0.2	1.0	2,249.6	175.7	3,348,540.3	1.5
11/18/2014 09:58	11.7	0.3	0.2	1.0	2,249.5	175.9	3,348,391.5	1.6
11/18/2014 09:59	11.7	0.3	0.2	1.0	2,248.7	176.2	3,347,200.7	1.7
11/18/2014 10:00	11.7	0.3	0.2	1.0	2,255.4	176.0	3,357,173.6	1.8
11/18/2014 10:01	11.7	0.3	0.2	1.0	2,255.3	176.1	3,357,024.8	1.8
11/18/2014 10:02	11.7	0.3	0.2	1.0	2,253.9	176.0	3,354,940.9	1.7
11/18/2014 10:03	11.7	0.3	0.2	1.0	2,252.9	176.1	3,353,452.4	1.6
11/18/2014 10:04	11.7	0.2	0.1	0.6	2,249.9	176.0	3,348,986.9	1.4
11/18/2014 10:05	11.7	0.2	0.1	0.6	2,252.8	176.0	3,353,303.5	1.4
11/18/2014 10:06	11.7	0.3	0.2	1.0	2,248.7	176.2	3,347,200.7	1.4
11/18/2014 10:07	11.7	0.3	0.2	1.0	2,253.5	176.3	3,354,345.5	1.4
11/18/2014 10:08	11.7	0.3	0.2	1.0	2,256.1	176.1	3,358,215.6	1.5
11/18/2014 10:09	11.7	0.2	0.1	0.6	2,254.3	176.2	3,355,536.3	1.5
11/18/2014 10:10	11.7	0.2	0.1	0.6	2,249.3	176.3	3,348,093.8	1.6
11/18/2014 10:11	11.7	0.3	0.2	1.0	2,250.0	176.0	3,349,135.7	1.7
11/18/2014 10:12	11.7	0.3	0.2	1.0	2,255.0	176.1	3,356,578.2	1.8
11/18/2014 10:13	11.7	0.3	0.2	1.0	2,256.2	176.1	3,358,364.5	1.7
11/18/2014 10:14	11.7	0.3	0.2	1.0	2,253.3	175.8	3,354,047.8	1.7
11/18/2014 10:15	11.7	0.3	0.2	1.0	2,251.3	175.8	3,351,070.8	1.5
11/18/2014 10:16	11.7	0.3	0.2	1.0	2,253.6	175.6	3,354,494.3	1.4
11/18/2014 10:17	11.7	0.3	0.2	1.0	2,249.9	175.9	3,348,986.9	1.4
11/18/2014 10:18	11.7	0.3	0.2	1.0	2,251.6	176.0	3,351,517.3	1.4
11/18/2014 10:19	11.7	0.3	0.2	1.0	2,256.1	175.8	3,358,215.6	1.4
11/18/2014 10:20	11.7	0.3	0.2	1.0	2,252.2	175.8	3,352,410.4	1.5
11/18/2014 10:21	11.7	0.3	0.2	1.0	2,250.9	175.8	3,350,475.4	1.6
11/18/2014 10:22	11.7	0.3	0.2	1.0	2,249.2	175.7	3,347,944.9	1.6
11/18/2014 10:23	11.7	0.2	0.1	0.6	2,252.2	175.6	3,352,410.4	1.7
11/18/2014 10:24	11.7	0.2	0.1	0.6	2,248.9	175.5	3,347,498.4	1.8

RATA Data Report

CT1

R3

COLUSA GENERATING STATION

From: 11/18/2014 09:56 **To:** 11/18/2014 10:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:20 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:25	11.7	0.2	0.1	0.6	2,251.0	175.5	3,350,624.2	1.8
11/18/2014 10:26	11.7	0.2	0.1	0.6	2,250.6	175.6	3,350,028.8	1.7
11/18/2014 10:27	11.7	0.2	0.1	0.6	2,252.3	175.5	3,352,559.3	1.5
11/18/2014 10:28	11.7	0.2	0.1	0.6	2,255.2	175.4	3,356,875.9	1.4
11/18/2014 10:29	11.7	0.2	0.1	0.6	2,251.2	175.3	3,350,921.9	1.4
11/18/2014 10:30	11.7	0.2	0.1	0.6	2,255.2	175.4	3,356,875.9	1.4
11/18/2014 10:31	11.7	0.2	0.1	0.6	2,254.7	175.3	3,356,131.7	1.4
11/18/2014 10:32	11.7	0.2	0.1	0.6	2,252.1	175.4	3,352,261.6	1.5
11/18/2014 10:33	11.7	0.2	0.1	0.6	2,253.8	175.3	3,354,792.0	1.5
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.7	0.3	0.2	0.8	2,252.3	175.8	3,352,625.9	1.6

RATA Data Report

CT1

R4

COLUSA GENERATING STATION

From: 11/18/2014 10:53 **To:** 11/18/2014 11:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:09 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 10:53	11.7	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:54	11.7	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:55	11.7	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:56	11.7	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:57	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 10:58	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:59	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:00	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:01	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:02	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:03	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:04	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:05	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:06	11.6	1.2	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:07	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:08	11.6	1.4	0.9	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:09	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:10	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:11	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:12	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:13	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:14	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:15	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.5	1.0	0.004	8.2	9.3	12.0	13.3

R4

RATA Data Report

CT1

From: 11/18/2014 10:53 **To:** 11/18/2014 11:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:21 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:53	11.7	0.2	0.1	0.6	2,258.8	174.4	3,362,234.6	1.5
11/18/2014 10:54	11.7	0.2	0.1	0.6	2,261.3	174.5	3,365,955.8	1.4
11/18/2014 10:55	11.7	0.2	0.1	0.6	2,257.7	174.5	3,360,597.2	1.4
11/18/2014 10:56	11.7	0.2	0.1	0.6	2,257.7	174.5	3,360,597.2	1.4
11/18/2014 10:57	11.6	0.2	0.1	0.6	2,259.1	174.2	3,326,523.3	1.5
11/18/2014 10:58	11.6	0.2	0.1	0.6	2,257.3	174.3	3,323,872.8	1.5
11/18/2014 10:59	11.6	0.2	0.1	0.6	2,257.6	174.1	3,324,314.5	1.6
11/18/2014 11:00	11.6	0.2	0.1	0.6	2,259.8	174.1	3,327,554.0	1.7
11/18/2014 11:01	11.6	0.2	0.1	0.6	2,257.3	174.0	3,323,872.8	1.8
11/18/2014 11:02	11.6	0.2	0.1	0.6	2,260.2	174.1	3,328,143.0	1.9
11/18/2014 11:03	11.6	0.2	0.1	0.6	2,261.7	174.1	3,330,351.8	1.9
11/18/2014 11:04	11.6	0.2	0.1	0.6	2,262.1	174.0	3,330,940.8	1.8
11/18/2014 11:05	11.6	0.2	0.1	0.6	2,259.7	174.1	3,327,406.8	1.5
11/18/2014 11:06	11.6	0.2	0.1	0.6	2,257.2	173.8	3,323,725.5	1.5
11/18/2014 11:07	11.6	0.2	0.1	0.6	2,259.4	173.8	3,326,965.0	1.4
11/18/2014 11:08	11.6	0.2	0.1	0.6	2,256.3	173.8	3,322,400.3	1.5
11/18/2014 11:09	11.6	0.2	0.1	0.6	2,257.9	173.9	3,324,756.3	1.5
11/18/2014 11:10	11.6	0.2	0.1	0.6	2,257.5	173.7	3,324,167.3	1.5
11/18/2014 11:11	11.6	0.2	0.1	0.6	2,257.6	173.7	3,324,314.5	1.6
11/18/2014 11:12	11.6	0.2	0.1	0.6	2,256.6	173.4	3,322,842.0	1.7
11/18/2014 11:13	11.6	0.2	0.1	0.6	2,259.6	173.6	3,327,259.5	1.9
11/18/2014 11:14	11.6	0.2	0.1	0.6	2,256.5	173.4	3,322,694.8	1.9
11/18/2014 11:15	11.6	0.2	0.1	0.6	2,256.7	173.4	3,322,989.3	1.9
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	0.2	0.1	0.6	2,258.5	174.0	3,331,933.9	1.6

RATA Data Report

CT1

R4

COLUSA GENERATING STATION

From: 11/18/2014 10:53 **To:** 11/18/2014 11:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:33 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:53	0.1	0.6	11.7	13.3	174.4	21,817.8	170.8	1.5
11/18/2014 10:54	0.1	0.6	11.7	13.3	174.5	21,842.0	166.7	1.4
11/18/2014 10:55	0.1	0.6	11.7	13.3	174.5	21,807.9	164.5	1.4
11/18/2014 10:56	0.1	0.6	11.7	13.3	174.5	21,807.0	164.1	1.4
11/18/2014 10:57	0.1	0.6	11.6	13.4	174.2	21,821.0	165.8	1.5
11/18/2014 10:58	0.1	0.6	11.6	13.3	174.3	21,803.3	172.7	1.5
11/18/2014 10:59	0.1	0.6	11.6	13.3	174.1	21,806.2	182.7	1.6
11/18/2014 11:00	0.1	0.6	11.6	13.3	174.1	21,827.9	194.6	1.7
11/18/2014 11:01	0.1	0.6	11.6	13.3	174.0	21,803.3	202.2	1.8
11/18/2014 11:02	0.1	0.6	11.6	13.3	174.1	21,831.7	214.3	1.9
11/18/2014 11:03	0.1	0.6	11.6	13.3	174.1	21,846.1	214.7	1.9
11/18/2014 11:04	0.1	0.6	11.6	13.3	174.0	21,850.0	197.3	1.8
11/18/2014 11:05	0.1	0.6	11.6	13.3	174.1	21,827.1	171.5	1.5
11/18/2014 11:06	0.1	0.6	11.6	13.3	173.8	21,802.3	167.8	1.5
11/18/2014 11:07	0.1	0.6	11.6	13.3	173.8	21,823.6	164.8	1.4
11/18/2014 11:08	0.1	0.6	11.6	13.3	173.8	21,793.9	165.4	1.5
11/18/2014 11:09	0.1	0.6	11.6	13.3	173.9	21,809.8	166.5	1.5
11/18/2014 11:10	0.1	0.6	11.6	13.3	173.7	21,806.0	171.8	1.5
11/18/2014 11:11	0.1	0.6	11.6	13.3	173.7	21,806.2	180.1	1.6
11/18/2014 11:12	0.1	0.6	11.6	13.3	173.4	21,796.8	193.3	1.7
11/18/2014 11:13	0.1	0.6	11.6	13.3	173.6	21,825.6	208.8	1.9
11/18/2014 11:14	0.1	0.6	11.6	13.3	173.4	21,796.1	214.8	1.9
11/18/2014 11:15	0.1	0.6	11.6	13.3	173.4	21,798.2	214.8	1.9
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.1	0.6	11.6	13.3	174.0	21,815.2	183.9	1.6

R5

RATA Data Report

CT1

From: 11/18/2014 11:24 **To:** 11/18/2014 11:46 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:10 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 11:24	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:25	11.6	1.8	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:26	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:27	11.6	1.6	1.0	0.004	9.1	9.3	12.0	13.3
11/18/2014 11:28	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:29	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:30	11.6	1.2	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:31	11.6	1.2	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:32	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:33	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:34	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:35	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:36	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:37	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 11:38	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:39	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:40	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:41	11.6	1.4	0.9	0.003	6.8	9.4	12.0	13.4
11/18/2014 11:42	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 11:43	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 11:44	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:45	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:46	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.5	1.0	0.004	8.1	9.4	12.0	13.3

R5

RATA Data Report

CT1

From: 11/18/2014 11:24 **To:** 11/18/2014 11:46 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:21 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:24	11.6	0.2	0.1	0.6	2,260.1	173.2	3,327,995.8	1.7
11/18/2014 11:25	11.6	0.2	0.1	0.6	2,260.0	173.2	3,327,848.5	1.9
11/18/2014 11:26	11.6	0.2	0.1	0.6	2,262.2	173.1	3,331,088.0	2.0
11/18/2014 11:27	11.6	0.2	0.1	0.6	2,262.6	173.3	3,331,677.0	2.0
11/18/2014 11:28	11.6	0.2	0.1	0.6	2,260.5	173.2	3,328,584.8	1.9
11/18/2014 11:29	11.6	0.2	0.1	0.6	2,256.6	173.4	3,322,842.0	1.7
11/18/2014 11:30	11.6	0.2	0.1	0.6	2,256.6	173.1	3,322,842.0	1.5
11/18/2014 11:31	11.6	0.2	0.1	0.6	2,256.6	172.9	3,322,842.0	1.5
11/18/2014 11:32	11.6	0.2	0.1	0.6	2,255.7	173.0	3,321,516.8	1.5
11/18/2014 11:33	11.6	0.2	0.1	0.6	2,254.6	173.2	3,319,897.0	1.5
11/18/2014 11:34	11.6	0.2	0.1	0.6	2,258.5	173.1	3,325,639.8	1.5
11/18/2014 11:35	11.6	0.2	0.1	0.6	2,253.4	173.1	3,318,130.0	1.5
11/18/2014 11:36	11.6	0.2	0.1	0.6	2,247.2	173.0	3,309,000.5	1.7
11/18/2014 11:37	11.6	0.2	0.1	0.6	2,249.4	172.8	3,312,240.0	1.8
11/18/2014 11:38	11.6	0.1	0.1	0.3	2,251.0	172.7	3,314,596.0	1.8
11/18/2014 11:39	11.6	0.1	0.1	0.3	2,251.6	172.6	3,315,479.5	1.9
11/18/2014 11:40	11.6	0.1	0.1	0.3	2,251.9	172.5	3,315,921.3	1.8
11/18/2014 11:41	11.6	0.1	0.1	0.3	2,250.6	172.9	3,314,007.0	1.7
11/18/2014 11:42	11.6	0.1	0.1	0.3	2,246.7	173.1	3,308,264.3	1.5
11/18/2014 11:43	11.6	0.1	0.1	0.3	2,246.0	173.0	3,307,233.5	1.5
11/18/2014 11:44	11.6	0.2	0.1	0.6	2,251.6	173.1	3,315,479.5	1.5
11/18/2014 11:45	11.6	0.2	0.1	0.6	2,246.7	173.0	3,308,264.3	1.4
11/18/2014 11:46	11.6	0.2	0.1	0.6	2,251.2	172.9	3,314,890.5	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	0.2	0.1	0.5	2,254.0	173.0	3,318,968.7	1.7

RATA Data Report

CT1

R5

COLUSA GENERATING STATION

From: 11/18/2014 11:24 **To:** 11/18/2014 11:46 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:33 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:24	0.1	0.6	11.6	13.3	173.2	21,830.7	193.0	1.7
11/18/2014 11:25	0.1	0.6	11.6	13.3	173.2	21,829.3	207.5	1.9
11/18/2014 11:26	0.1	0.6	11.6	13.3	173.1	21,851.0	219.1	2.0
11/18/2014 11:27	0.1	0.6	11.6	13.3	173.3	21,855.0	223.0	2.0
11/18/2014 11:28	0.1	0.6	11.6	13.3	173.2	21,834.3	210.3	1.9
11/18/2014 11:29	0.1	0.6	11.6	13.3	173.4	21,797.3	186.8	1.7
11/18/2014 11:30	0.1	0.6	11.6	13.3	173.1	21,797.3	167.1	1.5
11/18/2014 11:31	0.1	0.6	11.6	13.3	172.9	21,796.6	165.8	1.5
11/18/2014 11:32	0.1	0.6	11.6	13.3	173.0	21,787.7	166.3	1.5
11/18/2014 11:33	0.1	0.6	11.6	13.3	173.2	21,777.2	165.8	1.5
11/18/2014 11:34	0.1	0.6	11.6	13.3	173.1	21,815.5	171.1	1.5
11/18/2014 11:35	0.1	0.6	11.6	13.3	173.1	21,765.5	174.5	1.5
11/18/2014 11:36	0.1	0.6	11.6	13.3	173.0	21,706.0	185.1	1.7
11/18/2014 11:37	0.1	0.6	11.6	13.4	172.8	21,727.7	195.7	1.8
11/18/2014 11:38	0.1	0.3	11.6	13.3	172.7	21,742.7	204.4	1.8
11/18/2014 11:39	0.1	0.3	11.6	13.3	172.6	21,748.2	208.1	1.9
11/18/2014 11:40	0.1	0.3	11.6	13.3	172.5	21,751.2	202.2	1.8
11/18/2014 11:41	0.1	0.3	11.6	13.4	172.9	21,739.3	188.1	1.7
11/18/2014 11:42	0.1	0.3	11.6	13.4	173.1	21,700.9	169.7	1.5
11/18/2014 11:43	0.1	0.3	11.6	13.4	173.0	21,694.2	164.9	1.5
11/18/2014 11:44	0.1	0.6	11.6	13.3	173.1	21,748.5	165.0	1.5
11/18/2014 11:45	0.1	0.6	11.6	13.3	173.0	21,701.3	164.0	1.4
11/18/2014 11:46	0.1	0.6	11.6	13.3	172.9	21,744.4	171.5	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.1	0.5	11.6	13.3	173.0	21,771.4	185.6	1.7

R6

RATA Data Report

CT1

From: 11/18/2014 11:55 **To:** 11/18/2014 12:17 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:11 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 11:55	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 11:56	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 11:57	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:58	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:59	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:00	11.6	1.8	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:01	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:02	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:03	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:04	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:05	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:06	11.6	1.2	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:07	11.6	1.3	0.8	0.003	6.8	9.4	12.0	13.4
11/18/2014 12:08	11.6	1.4	0.9	0.003	6.8	9.4	12.0	13.4
11/18/2014 12:09	11.6	1.5	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:10	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:11	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:12	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:13	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:14	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:15	11.6	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:16	11.6	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:17	11.6	1.4	0.9	0.003	6.7	9.2	11.9	13.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.5	1.0	0.004	8.2	9.4	12.0	13.4

R6

RATA Data Report

CT1

From: 11/18/2014 11:55 **To:** 11/18/2014 12:17 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:55	11.6	0.2	0.1	0.6	2,247.7	172.6	3,309,736.8	1.5
11/18/2014 11:56	11.6	0.2	0.1	0.6	2,244.6	172.8	3,305,172.0	1.5
11/18/2014 11:57	11.6	0.2	0.1	0.6	2,250.2	172.7	3,313,418.0	1.5
11/18/2014 11:58	11.6	0.2	0.1	0.6	2,247.6	172.4	3,309,589.5	1.5
11/18/2014 11:59	11.6	0.2	0.1	0.6	2,249.4	172.6	3,312,240.0	1.6
11/18/2014 12:00	11.6	0.1	0.1	0.3	2,244.9	172.7	3,305,613.8	1.7
11/18/2014 12:01	11.6	0.2	0.1	0.6	2,250.1	172.6	3,313,270.8	1.9
11/18/2014 12:02	11.6	0.1	0.1	0.3	2,247.3	172.5	3,309,147.8	2.0
11/18/2014 12:03	11.6	0.1	0.1	0.3	2,250.7	172.7	3,314,154.3	1.9
11/18/2014 12:04	11.6	0.1	0.1	0.3	2,250.9	172.6	3,314,448.8	1.8
11/18/2014 12:05	11.6	0.1	0.1	0.3	2,250.5	172.4	3,313,859.8	1.5
11/18/2014 12:06	11.6	0.2	0.1	0.6	2,249.8	172.6	3,312,829.0	1.5
11/18/2014 12:07	11.6	0.2	0.1	0.6	2,250.3	172.4	3,313,565.3	1.5
11/18/2014 12:08	11.6	0.2	0.1	0.6	2,251.2	172.4	3,314,890.5	1.5
11/18/2014 12:09	11.6	0.2	0.1	0.6	2,248.3	172.5	3,310,620.3	1.5
11/18/2014 12:10	11.6	0.2	0.1	0.6	2,245.9	172.4	3,307,086.3	1.5
11/18/2014 12:11	11.6	0.2	0.1	0.6	2,246.4	172.5	3,307,822.5	1.6
11/18/2014 12:12	11.6	0.2	0.1	0.6	2,247.9	172.5	3,310,031.3	1.7
11/18/2014 12:13	11.6	0.2	0.1	0.6	2,246.0	172.5	3,307,233.5	1.8
11/18/2014 12:14	11.6	0.2	0.1	0.6	2,247.4	172.5	3,309,295.0	1.9
11/18/2014 12:15	11.6	0.2	0.1	0.6	2,250.1	172.4	3,313,270.8	1.9
11/18/2014 12:16	11.6	0.2	0.1	0.6	2,251.1	172.7	3,314,743.3	1.9
11/18/2014 12:17	11.6	0.2	0.1	0.6	2,249.3	172.6	3,312,092.8	1.7
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	0.2	0.1	0.5	2,248.6	172.5	3,311,049.2	1.7

RATA Data Report

CT1

R4

COLUSA GENERATING STATION

From: 11/18/2014 11:55 **To:** 11/18/2014 12:17 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 13:34 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:55	0.1	0.6	11.6	13.3	172.6	21,710.5	165.9	1.5
11/18/2014 11:56	0.1	0.6	11.6	13.3	172.8	21,680.7	165.2	1.5
11/18/2014 11:57	0.1	0.6	11.6	13.3	172.7	21,735.4	164.5	1.5
11/18/2014 11:58	0.1	0.6	11.6	13.3	172.4	21,709.9	172.7	1.5
11/18/2014 11:59	0.1	0.6	11.6	13.3	172.6	21,727.2	179.5	1.6
11/18/2014 12:00	0.1	0.3	11.6	13.4	172.7	21,684.2	191.9	1.7
11/18/2014 12:01	0.1	0.6	11.6	13.4	172.6	21,733.7	209.1	1.9
11/18/2014 12:02	0.1	0.3	11.6	13.3	172.5	21,707.4	215.4	2.0
11/18/2014 12:03	0.1	0.3	11.6	13.3	172.7	21,739.4	215.7	1.9
11/18/2014 12:04	0.1	0.3	11.6	13.3	172.6	21,741.8	202.8	1.8
11/18/2014 12:05	0.1	0.3	11.6	13.3	172.4	21,737.8	174.4	1.5
11/18/2014 12:06	0.1	0.6	11.6	13.4	172.6	21,730.7	166.5	1.5
11/18/2014 12:07	0.1	0.6	11.6	13.4	172.4	21,736.1	165.9	1.5
11/18/2014 12:08	0.1	0.6	11.6	13.4	172.4	21,745.0	165.7	1.5
11/18/2014 12:09	0.1	0.6	11.6	13.4	172.5	21,716.3	165.9	1.5
11/18/2014 12:10	0.1	0.6	11.6	13.4	172.4	21,693.2	170.6	1.5
11/18/2014 12:11	0.1	0.6	11.6	13.4	172.5	21,698.0	174.3	1.6
11/18/2014 12:12	0.1	0.6	11.6	13.4	172.5	21,713.0	186.1	1.7
11/18/2014 12:13	0.1	0.6	11.6	13.4	172.5	21,694.8	195.0	1.8
11/18/2014 12:14	0.1	0.6	11.6	13.3	172.5	21,708.3	206.5	1.9
11/18/2014 12:15	0.1	0.6	11.6	13.4	172.4	21,733.9	211.5	1.9
11/18/2014 12:16	0.1	0.6	11.6	13.4	172.7	21,743.6	208.8	1.9
11/18/2014 12:17	0.1	0.6	11.6	13.3	172.6	21,725.9	192.6	1.7
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.1	0.5	11.6	13.4	172.5	21,719.4	185.5	1.7

RATA Data Report

CT1

R7

COLUSA GENERATING STATION

From: 11/18/2014 12:25 **To:** 11/18/2014 12:47 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:05 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 12:25	11.6	1.8	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:26	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:27	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:28	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:29	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 12:30	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:31	11.6	1.2	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:32	11.6	1.3	0.8	0.003	6.7	9.4	11.9	13.4
11/18/2014 12:33	11.6	1.4	0.9	0.003	6.7	9.4	11.9	13.4
11/18/2014 12:34	11.6	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:35	11.6	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:36	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:37	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:38	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:39	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:40	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:41	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:42	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 12:43	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 12:44	11.6	1.3	0.8	0.003	6.8	9.4	12.0	13.4
11/18/2014 12:45	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 12:46	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:47	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.5	1.0	0.004	8.1	9.4	12.0	13.4

RATA Data Report

CT1

R1

COLUSA GENERATING STATION

From: 11/18/2014 12:25 **To:** 11/18/2014 12:47 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:07 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, Mwe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:25	11.6	0.2	0.1	0.6	2,248.8	172.6	3,311,356.5	1.7
11/18/2014 12:26	11.6	0.2	0.1	0.6	2,253.1	172.5	3,317,688.3	1.9
11/18/2014 12:27	11.6	0.1	0.1	0.3	2,250.9	172.4	3,314,448.8	1.9
11/18/2014 12:28	11.6	0.1	0.1	0.3	2,247.8	172.6	3,309,884.0	2.0
11/18/2014 12:29	11.6	0.2	0.1	0.6	2,243.5	172.4	3,303,552.3	1.8
11/18/2014 12:30	11.6	0.2	0.1	0.6	2,244.0	172.2	3,304,288.5	1.5
11/18/2014 12:31	11.6	0.2	0.1	0.6	2,247.9	172.3	3,310,031.3	1.5
11/18/2014 12:32	11.6	0.2	0.1	0.6	2,247.1	172.3	3,308,853.3	1.5
11/18/2014 12:33	11.6	0.2	0.1	0.6	2,245.4	172.3	3,306,350.0	1.5
11/18/2014 12:34	11.6	0.2	0.1	0.6	2,245.7	172.3	3,306,791.8	1.5
11/18/2014 12:35	11.6	0.2	0.1	0.6	2,246.8	172.4	3,308,411.5	1.5
11/18/2014 12:36	11.6	0.2	0.1	0.6	2,245.1	172.2	3,305,908.3	1.6
11/18/2014 12:37	11.6	0.2	0.1	0.6	2,248.0	172.3	3,310,178.5	1.6
11/18/2014 12:38	11.6	0.2	0.1	0.6	2,245.2	172.4	3,306,055.5	1.8
11/18/2014 12:39	11.6	0.2	0.1	0.6	2,248.9	172.5	3,311,503.8	1.9
11/18/2014 12:40	11.6	0.2	0.1	0.6	2,247.2	172.2	3,309,000.5	1.9
11/18/2014 12:41	11.6	0.2	0.1	0.6	2,243.8	172.1	3,303,994.0	1.9
11/18/2014 12:42	11.6	0.2	0.1	0.6	2,245.6	172.1	3,306,644.5	1.7
11/18/2014 12:43	11.6	0.2	0.1	0.6	2,246.4	172.4	3,307,822.5	1.5
11/18/2014 12:44	11.6	0.2	0.1	0.6	2,252.6	172.4	3,316,952.0	1.5
11/18/2014 12:45	11.6	0.2	0.1	0.6	2,249.9	172.3	3,312,976.3	1.5
11/18/2014 12:46	11.6	0.2	0.1	0.6	2,244.7	172.3	3,305,319.3	1.4
11/18/2014 12:47	11.6	0.2	0.1	0.6	2,251.0	172.3	3,314,596.0	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	0.2	0.1	0.6	2,247.4	172.3	3,309,243.8	1.7

RATA Data Report

CT1

From: 11/18/2014 12:25 **To:** 11/18/2014 12:47 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:10 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:25	0.1	0.6	11.6	13.4	172.6	21,721.1	192.2	1.7
11/18/2014 12:26	0.1	0.6	11.6	13.4	172.5	21,762.8	207.3	1.9
11/18/2014 12:27	0.1	0.3	11.6	13.3	172.4	21,741.9	213.7	1.9
11/18/2014 12:28	0.1	0.3	11.6	13.3	172.6	21,712.2	215.5	2.0
11/18/2014 12:29	0.1	0.6	11.6	13.4	172.4	21,670.1	202.6	1.8
11/18/2014 12:30	0.1	0.6	11.6	13.4	172.2	21,674.9	174.6	1.5
11/18/2014 12:31	0.1	0.6	11.6	13.4	172.3	21,712.4	166.1	1.5
11/18/2014 12:32	0.1	0.6	11.6	13.4	172.3	21,705.3	165.7	1.5
11/18/2014 12:33	0.1	0.6	11.6	13.4	172.3	21,688.8	165.1	1.5
11/18/2014 12:34	0.1	0.6	11.6	13.4	172.3	21,691.3	164.9	1.5
11/18/2014 12:35	0.1	0.6	11.6	13.4	172.4	21,701.7	170.8	1.5
11/18/2014 12:36	0.1	0.6	11.6	13.4	172.2	21,685.7	174.4	1.6
11/18/2014 12:37	0.1	0.6	11.6	13.4	172.3	21,713.8	183.9	1.6
11/18/2014 12:38	0.1	0.6	11.6	13.3	172.4	21,686.5	197.4	1.8
11/18/2014 12:39	0.1	0.6	11.6	13.3	172.5	21,722.8	206.6	1.9
11/18/2014 12:40	0.1	0.6	11.6	13.3	172.2	21,706.0	211.9	1.9
11/18/2014 12:41	0.1	0.6	11.6	13.3	172.1	21,673.2	209.5	1.9
11/18/2014 12:42	0.1	0.6	11.6	13.3	172.1	21,690.1	194.3	1.7
11/18/2014 12:43	0.1	0.6	11.6	13.3	172.4	21,697.9	170.7	1.5
11/18/2014 12:44	0.1	0.6	11.6	13.4	172.4	21,758.0	165.3	1.5
11/18/2014 12:45	0.1	0.6	11.6	13.3	172.3	21,732.4	165.5	1.5
11/18/2014 12:46	0.1	0.6	11.6	13.3	172.3	21,682.1	163.5	1.4
11/18/2014 12:47	0.1	0.6	11.6	13.3	172.3	21,742.7	165.7	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.1	0.6	11.6	13.4	172.3	21,707.6	184.7	1.7

RATA Data Report

CT1

R8

COLUSA GENERATING STATION

From: 11/18/2014 12:55 **To:** 11/18/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:06 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 12:55	11.6	1.2	0.8	0.003	6.8	9.5	12.1	13.4
11/18/2014 12:56	11.6	1.2	0.8	0.003	6.8	9.5	12.1	13.4
11/18/2014 12:57	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:58	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:59	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 13:00	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 13:01	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 13:02	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 13:03	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 13:04	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 13:05	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 13:06	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 13:07	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:08	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 13:09	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 13:10	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:11	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:12	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:13	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:14	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:15	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:16	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:17	11.6	1.6	1.0	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:18	11.6	1.4	0.9	0.003	6.8	9.5	12.1	13.4
Valid Data Points	24	24	24	24	24	24	24	24
Average:	11.6	1.5	1.0	0.004	8.1	9.4	12.1	13.4

RATA Data Report

CT1

From: 11/18/2014 12:55 **To:** 11/18/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:55	11.6	0.1	0.1	0.3	2,250.6	171.9	3,314,007.0	1.5
11/18/2014 12:56	11.6	0.1	0.1	0.3	2,252.4	171.9	3,316,657.5	1.5
11/18/2014 12:57	11.6	0.1	0.1	0.3	2,249.4	171.9	3,312,240.0	1.5
11/18/2014 12:58	11.6	0.1	0.1	0.3	2,248.8	171.8	3,311,356.5	1.5
11/18/2014 12:59	11.6	0.1	0.1	0.3	2,250.8	172.2	3,314,301.5	1.5
11/18/2014 13:00	11.6	0.2	0.1	0.6	2,250.4	172.1	3,313,712.5	1.5
11/18/2014 13:01	11.6	0.2	0.1	0.6	2,246.9	172.1	3,308,558.8	1.6
11/18/2014 13:02	11.6	0.2	0.1	0.6	2,249.1	171.9	3,311,798.3	1.7
11/18/2014 13:03	11.6	0.2	0.1	0.6	2,250.4	172.0	3,313,712.5	1.8
11/18/2014 13:04	11.6	0.2	0.1	0.6	2,249.1	171.7	3,311,798.3	1.9
11/18/2014 13:05	11.6	0.2	0.1	0.6	2,248.5	171.8	3,310,914.8	1.9
11/18/2014 13:06	11.6	0.2	0.1	0.6	2,248.0	171.9	3,310,178.5	1.8
11/18/2014 13:07	11.6	0.2	0.1	0.6	2,242.9	172.0	3,302,668.8	1.6
11/18/2014 13:08	11.6	0.2	0.1	0.6	2,248.4	171.9	3,310,767.5	1.5
11/18/2014 13:09	11.6	0.2	0.1	0.6	2,250.4	171.9	3,313,712.5	1.5
11/18/2014 13:10	11.6	0.2	0.1	0.6	2,249.2	171.9	3,311,945.5	1.4
11/18/2014 13:11	11.6	0.2	0.1	0.6	2,248.1	171.9	3,310,325.8	1.5
11/18/2014 13:12	11.6	0.2	0.1	0.6	2,249.5	171.8	3,312,387.3	1.5
11/18/2014 13:13	11.6	0.1	0.1	0.3	2,249.8	171.8	3,312,829.0	1.6
11/18/2014 13:14	11.6	0.1	0.1	0.3	2,247.3	171.8	3,309,147.8	1.7
11/18/2014 13:15	11.6	0.1	0.1	0.3	2,243.4	171.8	3,303,405.0	1.9
11/18/2014 13:16	11.6	0.1	0.1	0.3	2,246.2	172.0	3,307,528.0	2.0
11/18/2014 13:17	11.6	0.1	0.1	0.3	2,244.7	172.0	3,305,319.3	2.0
11/18/2014 13:18	11.6	0.1	0.1	0.3	2,253.8	172.0	3,318,719.0	1.9
Valid Data Points	24	24	24	24	24	24	24	24
Average:	11.6	0.2	0.1	0.5	2,248.7	171.9	3,311,166.3	1.7

RATA Data Report

CT1

R4

COLUSA GENERATING STATION

From: 11/18/2014 12:55 **To:** 11/18/2014 13:18 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:10 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, PpmVdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, PpmVdc 1 Minute(s)
11/18/2014 12:55	0.1	0.3	11.6	13.4	171.9	21,739.2	170.6	1.5
11/18/2014 12:56	0.1	0.3	11.6	13.4	171.9	21,756.2	165.6	1.5
11/18/2014 12:57	0.1	0.3	11.6	13.4	171.9	21,727.5	166.0	1.5
11/18/2014 12:58	0.1	0.3	11.6	13.4	171.8	21,721.3	165.0	1.5
11/18/2014 12:59	0.1	0.3	11.6	13.3	172.2	21,740.8	168.2	1.5
11/18/2014 13:00	0.1	0.6	11.6	13.4	172.1	21,737.3	169.7	1.5
11/18/2014 13:01	0.1	0.6	11.6	13.4	172.1	21,703.1	178.3	1.6
11/18/2014 13:02	0.1	0.6	11.6	13.4	171.9	21,724.6	187.8	1.7
11/18/2014 13:03	0.1	0.6	11.6	13.3	172.0	21,737.4	200.3	1.8
11/18/2014 13:04	0.1	0.6	11.6	13.3	171.7	21,724.8	210.4	1.9
11/18/2014 13:05	0.1	0.6	11.6	13.4	171.8	21,718.2	211.3	1.9
11/18/2014 13:06	0.1	0.6	11.6	13.4	171.9	21,714.2	202.4	1.8
11/18/2014 13:07	0.1	0.6	11.6	13.3	172.0	21,664.5	184.6	1.6
11/18/2014 13:08	0.1	0.6	11.6	13.3	171.9	21,717.4	165.2	1.5
11/18/2014 13:09	0.1	0.6	11.6	13.3	171.9	21,736.9	165.1	1.5
11/18/2014 13:10	0.1	0.6	11.6	13.3	171.9	21,724.9	164.3	1.4
11/18/2014 13:11	0.1	0.6	11.6	13.3	171.9	21,715.2	166.5	1.5
11/18/2014 13:12	0.1	0.6	11.6	13.3	171.8	21,728.0	168.5	1.5
11/18/2014 13:13	0.1	0.3	11.6	13.3	171.8	21,731.3	177.1	1.6
11/18/2014 13:14	0.1	0.3	11.6	13.3	171.8	21,707.2	189.8	1.7
11/18/2014 13:15	0.1	0.3	11.6	13.4	171.8	21,669.5	206.0	1.9
11/18/2014 13:16	0.1	0.3	11.6	13.4	172.0	21,696.0	219.2	2.0
11/18/2014 13:17	0.1	0.3	11.6	13.4	172.0	21,681.5	223.3	2.0
11/18/2014 13:18	0.1	0.3	11.6	13.4	172.0	21,769.6	213.4	1.9
Valid Data Points	24	24	24	24	24	24	24	24
Average:	0.1	0.5	11.6	13.4	171.9	21,720.3	184.9	1.7

RATA Data Report

CT1

R9

COLUSA GENERATING STATION

From: 11/18/2014 13:27 **To:** 11/18/2014 13:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:07 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 13:27	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:28	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:29	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:30	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:31	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:32	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 13:33	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 13:34	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 13:35	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:36	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:37	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:38	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:39	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:40	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:41	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:42	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 13:43	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 13:44	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:45	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 13:46	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:47	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 13:48	11.6	1.6	1.0	0.004	9.0	9.5	12.1	13.4
11/18/2014 13:49	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 13:50	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
Valid Data Points	24	24	24	24	24	24	24	24
Average:	11.6	1.5	1.0	0.004	8.2	9.4	12.1	13.3

RATA Data Report

CT1

R9

COLUSA GENERATING STATION

From: 11/18/2014 13:27 **To:** 11/18/2014 13:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:09 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 13:27	11.6	0.2	0.1	0.6	2,251.5	171.9	3,315,332.3	1.8
11/18/2014 13:28	11.6	0.2	0.1	0.6	2,252.6	171.9	3,316,952.0	1.9
11/18/2014 13:29	11.6	0.2	0.1	0.6	2,249.0	171.7	3,311,651.0	1.9
11/18/2014 13:30	11.6	0.2	0.1	0.6	2,250.5	171.8	3,313,859.8	1.9
11/18/2014 13:31	11.6	0.2	0.1	0.6	2,248.8	171.9	3,311,356.5	1.7
11/18/2014 13:32	11.6	0.2	0.1	0.6	2,251.5	171.7	3,315,332.3	1.5
11/18/2014 13:33	11.6	0.2	0.1	0.6	2,250.4	171.5	3,313,712.5	1.5
11/18/2014 13:34	11.6	0.2	0.1	0.6	2,250.4	171.7	3,313,712.5	1.4
11/18/2014 13:35	11.6	0.2	0.1	0.6	2,246.9	171.7	3,308,558.8	1.5
11/18/2014 13:36	11.6	0.1	0.1	0.3	2,248.9	171.5	3,311,503.8	1.5
11/18/2014 13:37	11.6	0.1	0.1	0.3	2,247.4	171.7	3,309,295.0	1.5
11/18/2014 13:38	11.6	0.1	0.1	0.3	2,244.9	171.9	3,305,613.8	1.7
11/18/2014 13:39	11.6	0.1	0.1	0.3	2,251.2	171.5	3,314,890.5	1.8
11/18/2014 13:40	11.6	0.1	0.1	0.3	2,246.3	171.8	3,307,675.3	2.0
11/18/2014 13:41	11.6	0.1	0.1	0.3	2,248.2	171.7	3,310,473.0	2.0
11/18/2014 13:42	11.6	0.1	0.1	0.3	2,245.4	171.5	3,306,350.0	2.0
11/18/2014 13:43	11.6	0.1	0.1	0.3	2,245.6	171.7	3,306,644.5	1.8
11/18/2014 13:44	11.6	0.1	0.1	0.3	2,248.4	171.5	3,310,767.5	1.5
11/18/2014 13:45	11.6	0.1	0.1	0.3	2,244.5	171.6	3,305,024.8	1.5
11/18/2014 13:46	11.6	0.2	0.1	0.6	2,246.4	171.5	3,307,822.5	1.5
11/18/2014 13:47	11.6	0.1	0.1	0.3	2,245.5	171.7	3,306,497.3	1.5
11/18/2014 13:48	11.6	0.1	0.1	0.3	2,248.6	171.5	3,311,062.0	1.5
11/18/2014 13:49	11.6	0.1	0.1	0.3	2,245.3	171.5	3,306,202.8	1.5
11/18/2014 13:50	11.6	0.2	0.1	0.6	2,245.9	171.6	3,307,086.3	1.6
Valid Data Points	24	24	24	24	24	24	24	24
Average:	11.6	0.1	0.1	0.4	2,248.1	171.7	3,310,307.4	1.7

RATA Data Report

CT1

R9

COLUSA GENERATING STATION

From: 11/18/2014 13:27 **To:** 11/18/2014 13:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/18/2014 15:11 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 13:27	0.1	0.6	11.6	13.4	171.9	21,748.0	195.7	1.8
11/18/2014 13:28	0.1	0.6	11.6	13.4	171.9	21,758.3	208.0	1.9
11/18/2014 13:29	0.1	0.6	11.6	13.3	171.7	21,723.2	211.9	1.9
11/18/2014 13:30	0.1	0.6	11.6	13.3	171.8	21,737.7	210.5	1.9
11/18/2014 13:31	0.1	0.6	11.6	13.3	171.9	21,721.7	194.3	1.7
11/18/2014 13:32	0.1	0.6	11.6	13.3	171.7	21,747.7	170.1	1.5
11/18/2014 13:33	0.1	0.6	11.6	13.3	171.5	21,736.6	165.5	1.5
11/18/2014 13:34	0.1	0.6	11.6	13.3	171.7	21,737.3	164.8	1.4
11/18/2014 13:35	0.1	0.6	11.6	13.3	171.7	21,703.0	164.6	1.5
11/18/2014 13:36	0.1	0.3	11.6	13.3	171.5	21,722.1	169.3	1.5
11/18/2014 13:37	0.1	0.3	11.6	13.4	171.7	21,707.8	173.2	1.5
11/18/2014 13:38	0.1	0.3	11.6	13.4	171.9	21,683.7	187.1	1.7
11/18/2014 13:39	0.1	0.3	11.6	13.4	171.5	21,744.5	203.8	1.8
11/18/2014 13:40	0.1	0.3	11.6	13.3	171.8	21,697.3	216.9	2.0
11/18/2014 13:41	0.1	0.3	11.6	13.3	171.7	21,715.8	224.4	2.0
11/18/2014 13:42	0.1	0.3	11.6	13.3	171.5	21,688.7	217.7	2.0
11/18/2014 13:43	0.1	0.3	11.6	13.4	171.7	21,690.4	198.3	1.8
11/18/2014 13:44	0.1	0.3	11.6	13.3	171.5	21,717.6	168.0	1.5
11/18/2014 13:45	0.1	0.3	11.6	13.4	171.6	21,680.2	167.3	1.5
11/18/2014 13:46	0.1	0.6	11.6	13.3	171.5	21,698.7	165.5	1.5
11/18/2014 13:47	0.1	0.3	11.6	13.3	171.7	21,689.8	166.5	1.5
11/18/2014 13:48	0.1	0.3	11.6	13.4	171.5	21,719.7	166.9	1.5
11/18/2014 13:49	0.1	0.3	11.6	13.4	171.5	21,687.6	168.3	1.5
11/18/2014 13:50	0.1	0.6	11.6	13.3	171.6	21,693.4	178.0	1.6
Valid Data Points	24	24	24	24	24	24	24	24
Average:	0.1	0.4	11.6	13.3	171.7	21,714.6	185.7	1.7

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:40	11.7	0.2	0.1	0.6	2,249.9	175.3	3,348,986.9	1.5
11/18/2014 10:41	11.7	0.2	0.1	0.6	2,252.8	175.2	3,353,303.5	1.4
11/18/2014 10:42	11.7	0.2	0.1	0.6	2,249.3	175.1	3,348,093.8	1.4
11/18/2014 10:43	11.7	0.2	0.1	0.6	2,249.3	174.9	3,348,093.8	1.4
11/18/2014 10:44	11.7	0.2	0.1	0.6	2,250.0	174.9	3,349,135.7	1.5
11/18/2014 10:45	11.7	0.2	0.1	0.6	2,254.9	175.0	3,356,429.4	1.5
11/18/2014 10:46	11.7	0.2	0.1	0.6	2,256.7	174.9	3,359,108.7	1.5
11/18/2014 10:47	11.7	0.2	0.1	0.6	2,257.4	174.7	3,360,150.7	1.6
11/18/2014 10:48	11.7	0.2	0.1	0.6	2,257.2	174.9	3,359,853.0	1.7
11/18/2014 10:49	11.7	0.2	0.1	0.6	2,257.1	175.0	3,359,704.1	1.8
11/18/2014 10:50	11.7	0.2	0.1	0.6	2,260.5	174.9	3,364,765.0	1.8
11/18/2014 10:51	11.7	0.2	0.1	0.6	2,259.9	174.7	3,363,871.9	1.8
11/18/2014 10:52	11.7	0.2	0.1	0.6	2,257.8	174.8	3,360,746.1	1.7
11/18/2014 10:53	11.7	0.2	0.1	0.6	2,258.8	174.4	3,362,234.6	1.5
11/18/2014 10:54	11.7	0.2	0.1	0.6	2,261.3	174.5	3,365,955.8	1.4
11/18/2014 10:55	11.7	0.2	0.1	0.6	2,257.7	174.5	3,360,597.2	1.4
11/18/2014 10:56	11.7	0.2	0.1	0.6	2,257.7	174.5	3,360,597.2	1.4
11/18/2014 10:57	11.6	0.2	0.1	0.6	2,259.1	174.2	3,326,523.3	1.5
11/18/2014 10:58	11.6	0.2	0.1	0.6	2,257.3	174.3	3,323,872.8	1.5
11/18/2014 10:59	11.6	0.2	0.1	0.6	2,257.6	174.1	3,324,314.5	1.6
11/18/2014 11:00	11.6	0.2	0.1	0.6	2,259.8	174.1	3,327,554.0	1.7
11/18/2014 11:01	11.6	0.2	0.1	0.6	2,257.3	174.0	3,323,872.8	1.8
11/18/2014 11:02	11.6	0.2	0.1	0.6	2,260.2	174.1	3,328,143.0	1.9
11/18/2014 11:03	11.6	0.2	0.1	0.6	2,261.7	174.1	3,330,351.8	1.9
11/18/2014 11:04	11.6	0.2	0.1	0.6	2,262.1	174.0	3,330,940.8	1.8
11/18/2014 11:05	11.6	0.2	0.1	0.6	2,259.7	174.1	3,327,406.8	1.5
11/18/2014 11:06	11.6	0.2	0.1	0.6	2,257.2	173.8	3,323,725.5	1.5
11/18/2014 11:07	11.6	0.2	0.1	0.6	2,259.4	173.8	3,326,965.0	1.4
11/18/2014 11:08	11.6	0.2	0.1	0.6	2,256.3	173.8	3,322,400.3	1.5

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:09	11.6	0.2	0.1	0.6	2,257.9	173.9	3,324,756.3	1.5
11/18/2014 11:10	11.6	0.2	0.1	0.6	2,257.5	173.7	3,324,167.3	1.5
11/18/2014 11:11	11.6	0.2	0.1	0.6	2,257.6	173.7	3,324,314.5	1.6
11/18/2014 11:12	11.6	0.2	0.1	0.6	2,256.6	173.4	3,322,842.0	1.7
11/18/2014 11:13	11.6	0.2	0.1	0.6	2,259.6	173.6	3,327,259.5	1.9
11/18/2014 11:14	11.6	0.2	0.1	0.6	2,256.5	173.4	3,322,694.8	1.9
11/18/2014 11:15	11.6	0.2	0.1	0.6	2,256.7	173.4	3,322,989.3	1.9
11/18/2014 11:16	11.6	0.2	0.1	0.6	2,256.5	173.4	3,322,694.8	1.8
11/18/2014 11:17	11.6	0.2	0.1	0.6	2,262.1	173.6	3,330,940.8	1.6
11/18/2014 11:18	11.6	0.2	0.1	0.6	2,261.6	173.4	3,330,204.5	1.5
11/18/2014 11:19	11.6	0.2	0.1	0.6	2,259.5	173.3	3,327,112.3	1.5
11/18/2014 11:20	11.6	0.1	0.1	0.3	2,258.1	173.3	3,325,050.8	1.5
11/18/2014 11:21	11.6	0.2	0.1	0.6	2,258.3	173.4	3,325,345.3	1.5
11/18/2014 11:22	11.6	0.2	0.1	0.6	2,261.5	173.3	3,330,057.3	1.5
11/18/2014 11:23	11.6	0.2	0.1	0.6	2,256.1	173.4	3,322,105.8	1.6
11/18/2014 11:24	11.6	0.2	0.1	0.6	2,260.1	173.2	3,327,995.8	1.7
11/18/2014 11:25	11.6	0.2	0.1	0.6	2,260.0	173.2	3,327,848.5	1.9
11/18/2014 11:26	11.6	0.2	0.1	0.6	2,262.2	173.1	3,331,088.0	2.0
11/18/2014 11:27	11.6	0.2	0.1	0.6	2,262.6	173.3	3,331,677.0	2.0
11/18/2014 11:28	11.6	0.2	0.1	0.6	2,260.5	173.2	3,328,584.8	1.9
11/18/2014 11:29	11.6	0.2	0.1	0.6	2,256.6	173.4	3,322,842.0	1.7
11/18/2014 11:30	11.6	0.2	0.1	0.6	2,256.6	173.1	3,322,842.0	1.5
11/18/2014 11:31	11.6	0.2	0.1	0.6	2,256.6	172.9	3,322,842.0	1.5
11/18/2014 11:32	11.6	0.2	0.1	0.6	2,255.7	173.0	3,321,516.8	1.5
11/18/2014 11:33	11.6	0.2	0.1	0.6	2,254.6	173.2	3,319,897.0	1.5
11/18/2014 11:34	11.6	0.2	0.1	0.6	2,258.5	173.1	3,325,639.8	1.5
11/18/2014 11:35	11.6	0.2	0.1	0.6	2,253.4	173.1	3,318,130.0	1.5
11/18/2014 11:36	11.6	0.2	0.1	0.6	2,247.2	173.0	3,309,000.5	1.7
11/18/2014 11:37	11.6	0.2	0.1	0.6	2,249.4	172.8	3,312,240.0	1.8
11/18/2014 11:38	11.6	0.1	0.1	0.3	2,251.0	172.7	3,314,596.0	1.8

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:39	11.6	0.1	0.1	0.3	2,251.6	172.6	3,315,479.5	1.9
11/18/2014 11:40	11.6	0.1	0.1	0.3	2,251.9	172.5	3,315,921.3	1.8
11/18/2014 11:41	11.6	0.1	0.1	0.3	2,250.6	172.9	3,314,007.0	1.7
11/18/2014 11:42	11.6	0.1	0.1	0.3	2,246.7	173.1	3,308,264.3	1.5
11/18/2014 11:43	11.6	0.1	0.1	0.3	2,246.0	173.0	3,307,233.5	1.5
11/18/2014 11:44	11.6	0.2	0.1	0.6	2,251.6	173.1	3,315,479.5	1.5
11/18/2014 11:45	11.6	0.2	0.1	0.6	2,246.7	173.0	3,308,264.3	1.4
11/18/2014 11:46	11.6	0.2	0.1	0.6	2,251.2	172.9	3,314,890.5	1.5
11/18/2014 11:47	11.6	0.2	0.1	0.6	2,253.3	172.9	3,317,982.8	1.6
11/18/2014 11:48	11.6	0.2	0.1	0.6	2,249.8	173.0	3,312,829.0	1.7
11/18/2014 11:49	11.6	0.2	0.1	0.6	2,250.8	172.8	3,314,301.5	1.8
11/18/2014 11:50	11.6	0.2	0.1	0.6	2,251.5	172.7	3,315,332.3	1.9
11/18/2014 11:51	11.6	0.2	0.1	0.6	2,251.8	172.7	3,315,774.0	1.9
11/18/2014 11:52	11.6	0.2	0.1	0.6	2,250.1	172.6	3,313,270.8	1.8
11/18/2014 11:53	11.6	0.2	0.1	0.6	2,246.7	172.8	3,308,264.3	1.6
11/18/2014 11:54	11.6	0.2	0.1	0.6	2,248.1	172.8	3,310,325.8	1.5
11/18/2014 11:55	11.6	0.2	0.1	0.6	2,247.7	172.6	3,309,736.8	1.5
11/18/2014 11:56	11.6	0.2	0.1	0.6	2,244.6	172.8	3,305,172.0	1.5
11/18/2014 11:57	11.6	0.2	0.1	0.6	2,250.2	172.7	3,313,418.0	1.5
11/18/2014 11:58	11.6	0.2	0.1	0.6	2,247.6	172.4	3,309,589.5	1.5
11/18/2014 11:59	11.6	0.2	0.1	0.6	2,249.4	172.6	3,312,240.0	1.6
11/18/2014 12:00	11.6	0.1	0.1	0.3	2,244.9	172.7	3,305,613.8	1.7
11/18/2014 12:01	11.6	0.2	0.1	0.6	2,250.1	172.6	3,313,270.8	1.9
11/18/2014 12:02	11.6	0.1	0.1	0.3	2,247.3	172.5	3,309,147.8	2.0
11/18/2014 12:03	11.6	0.1	0.1	0.3	2,250.7	172.7	3,314,154.3	1.9
11/18/2014 12:04	11.6	0.1	0.1	0.3	2,250.9	172.6	3,314,448.8	1.8
11/18/2014 12:05	11.6	0.1	0.1	0.3	2,250.5	172.4	3,313,859.8	1.5
11/18/2014 12:06	11.6	0.2	0.1	0.6	2,249.8	172.6	3,312,829.0	1.5
11/18/2014 12:07	11.6	0.2	0.1	0.6	2,250.3	172.4	3,313,565.3	1.5
11/18/2014 12:08	11.6	0.2	0.1	0.6	2,251.2	172.4	3,314,890.5	1.5

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:09	11.6	0.2	0.1	0.6	2,248.3	172.5	3,310,620.3	1.5
11/18/2014 12:10	11.6	0.2	0.1	0.6	2,245.9	172.4	3,307,086.3	1.5
11/18/2014 12:11	11.6	0.2	0.1	0.6	2,246.4	172.5	3,307,822.5	1.6
11/18/2014 12:12	11.6	0.2	0.1	0.6	2,247.9	172.5	3,310,031.3	1.7
11/18/2014 12:13	11.6	0.2	0.1	0.6	2,246.0	172.5	3,307,233.5	1.8
11/18/2014 12:14	11.6	0.2	0.1	0.6	2,247.4	172.5	3,309,295.0	1.9
11/18/2014 12:15	11.6	0.2	0.1	0.6	2,250.1	172.4	3,313,270.8	1.9
11/18/2014 12:16	11.6	0.2	0.1	0.6	2,251.1	172.7	3,314,743.3	1.9
11/18/2014 12:17	11.6	0.2	0.1	0.6	2,249.3	172.6	3,312,092.8	1.7
11/18/2014 12:18	11.6	0.2	0.1	0.6	2,250.3	172.4	3,313,565.3	1.5
11/18/2014 12:19	11.6	0.2	0.1	0.6	2,250.3	172.3	3,313,565.3	1.5
11/18/2014 12:20	11.6	0.2	0.1	0.6	2,250.1	172.3	3,313,270.8	1.5
11/18/2014 12:21	11.6	0.2	0.1	0.6	2,244.7	172.6	3,305,319.3	1.4
11/18/2014 12:22	11.6	0.2	0.1	0.6	2,244.5	172.6	3,305,024.8	1.5
11/18/2014 12:23	11.6	0.2	0.1	0.6	2,251.2	172.5	3,314,890.5	1.5
11/18/2014 12:24	11.6	0.2	0.1	0.6	2,250.4	172.3	3,313,712.5	1.6
11/18/2014 12:25	11.6	0.2	0.1	0.6	2,248.8	172.6	3,311,356.5	1.7
11/18/2014 12:26	11.6	0.2	0.1	0.6	2,253.1	172.5	3,317,688.3	1.9
11/18/2014 12:27	11.6	0.1	0.1	0.3	2,250.9	172.4	3,314,448.8	1.9
11/18/2014 12:28	11.6	0.1	0.1	0.3	2,247.8	172.6	3,309,884.0	2.0
11/18/2014 12:29	11.6	0.2	0.1	0.6	2,243.5	172.4	3,303,552.3	1.8
11/18/2014 12:30	11.6	0.2	0.1	0.6	2,244.0	172.2	3,304,288.5	1.5
11/18/2014 12:31	11.6	0.2	0.1	0.6	2,247.9	172.3	3,310,031.3	1.5
11/18/2014 12:32	11.6	0.2	0.1	0.6	2,247.1	172.3	3,308,853.3	1.5
11/18/2014 12:33	11.6	0.2	0.1	0.6	2,245.4	172.3	3,306,350.0	1.5
11/18/2014 12:34	11.6	0.2	0.1	0.6	2,245.7	172.3	3,306,791.8	1.5
11/18/2014 12:35	11.6	0.2	0.1	0.6	2,246.8	172.4	3,308,411.5	1.5
11/18/2014 12:36	11.6	0.2	0.1	0.6	2,245.1	172.2	3,305,908.3	1.6
11/18/2014 12:37	11.6	0.2	0.1	0.6	2,248.0	172.3	3,310,178.5	1.6
11/18/2014 12:38	11.6	0.2	0.1	0.6	2,245.2	172.4	3,306,055.5	1.8

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:39	11.6	0.2	0.1	0.6	2,248.9	172.5	3,311,503.8	1.9
11/18/2014 12:40	11.6	0.2	0.1	0.6	2,247.2	172.2	3,309,000.5	1.9
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	0.2	0.1	0.6	2,252.8	173.2	3,322,333.7	1.6

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 10:40	11.7	1.3	0.8	0.003	6.7	9.2	11.9	13.3
11/18/2014 10:41	11.7	1.3	0.8	0.003	6.8	9.2	11.9	13.3
11/18/2014 10:42	11.7	1.4	0.9	0.003	6.7	9.2	11.9	13.3
11/18/2014 10:43	11.7	1.5	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:44	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:45	11.7	1.6	1.0	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:46	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:47	11.7	1.7	1.1	0.004	9.0	9.2	11.9	13.3
11/18/2014 10:48	11.7	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:49	11.7	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:50	11.7	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:51	11.7	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:52	11.7	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:53	11.7	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:54	11.7	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:55	11.7	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 10:56	11.7	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:57	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 10:58	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 10:59	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:00	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:01	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:02	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:03	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:04	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:05	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:06	11.6	1.2	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:07	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:08	11.6	1.4	0.9	0.003	6.8	9.4	12.1	13.3

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 11:09	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:10	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:11	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:12	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:13	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:14	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:15	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:16	11.6	1.4	0.9	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:17	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:18	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:19	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:20	11.6	1.4	0.9	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:21	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:22	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:23	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:24	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:25	11.6	1.8	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:26	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:27	11.6	1.6	1.0	0.004	9.1	9.3	12.0	13.3
11/18/2014 11:28	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:29	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:30	11.6	1.2	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:31	11.6	1.2	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:32	11.6	1.3	0.8	0.003	6.8	9.4	12.1	13.3
11/18/2014 11:33	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:34	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:35	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:36	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:37	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 11:38	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 11:39	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:40	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:41	11.6	1.4	0.9	0.003	6.8	9.4	12.0	13.4
11/18/2014 11:42	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 11:43	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 11:44	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:45	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:46	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:47	11.6	1.7	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 11:48	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 11:49	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:50	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:51	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:52	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 11:53	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 11:54	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 11:55	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 11:56	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 11:57	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 11:58	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 11:59	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:00	11.6	1.8	1.1	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:01	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:02	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:03	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:04	11.6	1.4	0.9	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:05	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:06	11.6	1.2	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:07	11.6	1.3	0.8	0.003	6.8	9.4	12.0	13.4
11/18/2014 12:08	11.6	1.4	0.9	0.003	6.8	9.4	12.0	13.4

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 12:09	11.6	1.5	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:10	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:11	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:12	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:13	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:14	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:15	11.6	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:16	11.6	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:17	11.6	1.4	0.9	0.003	6.7	9.2	11.9	13.3
11/18/2014 12:18	11.6	1.3	0.8	0.003	6.8	9.4	11.9	13.4
11/18/2014 12:19	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:20	11.6	1.3	0.8	0.003	6.8	9.3	12.0	13.3
11/18/2014 12:21	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 12:22	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:23	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:24	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:25	11.6	1.8	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:26	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:27	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:28	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 12:29	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 12:30	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:31	11.6	1.2	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 12:32	11.6	1.3	0.8	0.003	6.7	9.4	11.9	13.4
11/18/2014 12:33	11.6	1.4	0.9	0.003	6.7	9.4	11.9	13.4
11/18/2014 12:34	11.6	1.5	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:35	11.6	1.6	1.0	0.004	9.0	9.4	11.9	13.4
11/18/2014 12:36	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:37	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 12:38	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 12:39	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 12:40	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.5	1.0	0.004	8.2	9.3	12.0	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 10:40	0.1	0.6	11.7	13.3	175.3	21,732.2	167.5	1.5
11/18/2014 10:41	0.1	0.6	11.7	13.3	175.2	21,760.5	165.0	1.4
11/18/2014 10:42	0.1	0.6	11.7	13.3	175.1	21,726.1	163.8	1.4
11/18/2014 10:43	0.1	0.6	11.7	13.3	174.9	21,726.2	165.4	1.4
11/18/2014 10:44	0.1	0.6	11.7	13.3	174.9	21,732.8	166.0	1.5
11/18/2014 10:45	0.1	0.6	11.7	13.3	175.0	21,780.1	167.7	1.5
11/18/2014 10:46	0.1	0.6	11.7	13.3	174.9	21,798.0	173.4	1.5
11/18/2014 10:47	0.1	0.6	11.7	13.3	174.7	21,804.7	180.5	1.6
11/18/2014 10:48	0.1	0.6	11.7	13.3	174.9	21,802.3	191.0	1.7
11/18/2014 10:49	0.1	0.6	11.7	13.3	175.0	21,801.7	201.1	1.8
11/18/2014 10:50	0.1	0.6	11.7	13.3	174.9	21,834.7	206.6	1.8
11/18/2014 10:51	0.1	0.6	11.7	13.3	174.7	21,828.6	201.2	1.8
11/18/2014 10:52	0.1	0.6	11.7	13.3	174.8	21,808.8	191.0	1.7
11/18/2014 10:53	0.1	0.6	11.7	13.3	174.4	21,817.8	170.8	1.5
11/18/2014 10:54	0.1	0.6	11.7	13.3	174.5	21,842.0	166.7	1.4
11/18/2014 10:55	0.1	0.6	11.7	13.3	174.5	21,807.9	164.5	1.4
11/18/2014 10:56	0.1	0.6	11.7	13.3	174.5	21,807.0	164.1	1.4
11/18/2014 10:57	0.1	0.6	11.6	13.4	174.2	21,821.0	165.8	1.5
11/18/2014 10:58	0.1	0.6	11.6	13.3	174.3	21,803.3	172.7	1.5
11/18/2014 10:59	0.1	0.6	11.6	13.3	174.1	21,806.2	182.7	1.6
11/18/2014 11:00	0.1	0.6	11.6	13.3	174.1	21,827.9	194.6	1.7
11/18/2014 11:01	0.1	0.6	11.6	13.3	174.0	21,803.3	202.2	1.8
11/18/2014 11:02	0.1	0.6	11.6	13.3	174.1	21,831.7	214.3	1.9
11/18/2014 11:03	0.1	0.6	11.6	13.3	174.1	21,846.1	214.7	1.9
11/18/2014 11:04	0.1	0.6	11.6	13.3	174.0	21,850.0	197.3	1.8
11/18/2014 11:05	0.1	0.6	11.6	13.3	174.1	21,827.1	171.5	1.5
11/18/2014 11:06	0.1	0.6	11.6	13.3	173.8	21,802.3	167.8	1.5
11/18/2014 11:07	0.1	0.6	11.6	13.3	173.8	21,823.6	164.8	1.4
11/18/2014 11:08	0.1	0.6	11.6	13.3	173.8	21,793.9	165.4	1.5

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:09	0.1	0.6	11.6	13.3	173.9	21,809.8	166.5	1.5
11/18/2014 11:10	0.1	0.6	11.6	13.3	173.7	21,806.0	171.8	1.5
11/18/2014 11:11	0.1	0.6	11.6	13.3	173.7	21,806.2	180.1	1.6
11/18/2014 11:12	0.1	0.6	11.6	13.3	173.4	21,796.8	193.3	1.7
11/18/2014 11:13	0.1	0.6	11.6	13.3	173.6	21,825.6	208.8	1.9
11/18/2014 11:14	0.1	0.6	11.6	13.3	173.4	21,796.1	214.8	1.9
11/18/2014 11:15	0.1	0.6	11.6	13.3	173.4	21,798.2	214.8	1.9
11/18/2014 11:16	0.1	0.6	11.6	13.3	173.4	21,796.1	202.3	1.8
11/18/2014 11:17	0.1	0.6	11.6	13.3	173.6	21,849.9	177.4	1.6
11/18/2014 11:18	0.1	0.6	11.6	13.3	173.4	21,845.2	167.2	1.5
11/18/2014 11:19	0.1	0.6	11.6	13.3	173.3	21,825.3	166.3	1.5
11/18/2014 11:20	0.1	0.3	11.6	13.3	173.3	21,811.8	165.9	1.5
11/18/2014 11:21	0.1	0.6	11.6	13.3	173.4	21,812.8	166.4	1.5
11/18/2014 11:22	0.1	0.6	11.6	13.3	173.3	21,844.1	169.7	1.5
11/18/2014 11:23	0.1	0.6	11.6	13.3	173.4	21,792.0	178.1	1.6
11/18/2014 11:24	0.1	0.6	11.6	13.3	173.2	21,830.7	193.0	1.7
11/18/2014 11:25	0.1	0.6	11.6	13.3	173.2	21,829.3	207.5	1.9
11/18/2014 11:26	0.1	0.6	11.6	13.3	173.1	21,851.0	219.1	2.0
11/18/2014 11:27	0.1	0.6	11.6	13.3	173.3	21,855.0	223.0	2.0
11/18/2014 11:28	0.1	0.6	11.6	13.3	173.2	21,834.3	210.3	1.9
11/18/2014 11:29	0.1	0.6	11.6	13.3	173.4	21,797.3	186.8	1.7
11/18/2014 11:30	0.1	0.6	11.6	13.3	173.1	21,797.3	167.1	1.5
11/18/2014 11:31	0.1	0.6	11.6	13.3	172.9	21,796.6	165.8	1.5
11/18/2014 11:32	0.1	0.6	11.6	13.3	173.0	21,787.7	166.3	1.5
11/18/2014 11:33	0.1	0.6	11.6	13.3	173.2	21,777.2	165.8	1.5
11/18/2014 11:34	0.1	0.6	11.6	13.3	173.1	21,815.5	171.1	1.5
11/18/2014 11:35	0.1	0.6	11.6	13.3	173.1	21,765.5	174.5	1.5
11/18/2014 11:36	0.1	0.6	11.6	13.3	173.0	21,706.0	185.1	1.7
11/18/2014 11:37	0.1	0.6	11.6	13.4	172.8	21,727.7	195.7	1.8
11/18/2014 11:38	0.1	0.3	11.6	13.3	172.7	21,742.7	204.4	1.8

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 11:39	0.1	0.3	11.6	13.3	172.6	21,748.2	208.1	1.9
11/18/2014 11:40	0.1	0.3	11.6	13.3	172.5	21,751.2	202.2	1.8
11/18/2014 11:41	0.1	0.3	11.6	13.4	172.9	21,739.3	188.1	1.7
11/18/2014 11:42	0.1	0.3	11.6	13.4	173.1	21,700.9	169.7	1.5
11/18/2014 11:43	0.1	0.3	11.6	13.4	173.0	21,694.2	164.9	1.5
11/18/2014 11:44	0.1	0.6	11.6	13.3	173.1	21,748.5	165.0	1.5
11/18/2014 11:45	0.1	0.6	11.6	13.3	173.0	21,701.3	164.0	1.4
11/18/2014 11:46	0.1	0.6	11.6	13.3	172.9	21,744.4	171.5	1.5
11/18/2014 11:47	0.1	0.6	11.6	13.4	172.9	21,764.5	180.4	1.6
11/18/2014 11:48	0.1	0.6	11.6	13.4	173.0	21,731.5	189.8	1.7
11/18/2014 11:49	0.1	0.6	11.6	13.3	172.8	21,740.4	201.9	1.8
11/18/2014 11:50	0.1	0.6	11.6	13.3	172.7	21,748.0	210.3	1.9
11/18/2014 11:51	0.1	0.6	11.6	13.3	172.7	21,750.4	209.5	1.9
11/18/2014 11:52	0.1	0.6	11.6	13.3	172.6	21,734.4	197.5	1.8
11/18/2014 11:53	0.1	0.6	11.6	13.4	172.8	21,701.6	175.8	1.6
11/18/2014 11:54	0.1	0.6	11.6	13.3	172.8	21,715.2	165.6	1.5
11/18/2014 11:55	0.1	0.6	11.6	13.3	172.6	21,710.5	165.9	1.5
11/18/2014 11:56	0.1	0.6	11.6	13.3	172.8	21,680.7	165.2	1.5
11/18/2014 11:57	0.1	0.6	11.6	13.3	172.7	21,735.4	164.5	1.5
11/18/2014 11:58	0.1	0.6	11.6	13.3	172.4	21,709.9	172.7	1.5
11/18/2014 11:59	0.1	0.6	11.6	13.3	172.6	21,727.2	179.5	1.6
11/18/2014 12:00	0.1	0.3	11.6	13.4	172.7	21,684.2	191.9	1.7
11/18/2014 12:01	0.1	0.6	11.6	13.4	172.6	21,733.7	209.1	1.9
11/18/2014 12:02	0.1	0.3	11.6	13.3	172.5	21,707.4	215.4	2.0
11/18/2014 12:03	0.1	0.3	11.6	13.3	172.7	21,739.4	215.7	1.9
11/18/2014 12:04	0.1	0.3	11.6	13.3	172.6	21,741.8	202.8	1.8
11/18/2014 12:05	0.1	0.3	11.6	13.3	172.4	21,737.8	174.4	1.5
11/18/2014 12:06	0.1	0.6	11.6	13.4	172.6	21,730.7	166.5	1.5
11/18/2014 12:07	0.1	0.6	11.6	13.4	172.4	21,736.1	165.9	1.5
11/18/2014 12:08	0.1	0.6	11.6	13.4	172.4	21,745.0	165.7	1.5

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:09	0.1	0.6	11.6	13.4	172.5	21,716.3	165.9	1.5
11/18/2014 12:10	0.1	0.6	11.6	13.4	172.4	21,693.2	170.6	1.5
11/18/2014 12:11	0.1	0.6	11.6	13.4	172.5	21,698.0	174.3	1.6
11/18/2014 12:12	0.1	0.6	11.6	13.4	172.5	21,713.0	186.1	1.7
11/18/2014 12:13	0.1	0.6	11.6	13.4	172.5	21,694.8	195.0	1.8
11/18/2014 12:14	0.1	0.6	11.6	13.3	172.5	21,708.3	206.5	1.9
11/18/2014 12:15	0.1	0.6	11.6	13.4	172.4	21,733.9	211.5	1.9
11/18/2014 12:16	0.1	0.6	11.6	13.4	172.7	21,743.6	208.8	1.9
11/18/2014 12:17	0.1	0.6	11.6	13.3	172.6	21,725.9	192.6	1.7
11/18/2014 12:18	0.1	0.6	11.6	13.4	172.4	21,735.5	170.8	1.5
11/18/2014 12:19	0.1	0.6	11.6	13.3	172.3	21,736.4	166.6	1.5
11/18/2014 12:20	0.1	0.6	11.6	13.3	172.3	21,734.4	165.0	1.5
11/18/2014 12:21	0.1	0.6	11.6	13.3	172.6	21,682.2	163.6	1.4
11/18/2014 12:22	0.1	0.6	11.6	13.3	172.6	21,680.4	167.3	1.5
11/18/2014 12:23	0.1	0.6	11.6	13.3	172.5	21,745.1	169.5	1.5
11/18/2014 12:24	0.1	0.6	11.6	13.4	172.3	21,736.5	181.4	1.6
11/18/2014 12:25	0.1	0.6	11.6	13.4	172.6	21,721.1	192.2	1.7
11/18/2014 12:26	0.1	0.6	11.6	13.4	172.5	21,762.8	207.3	1.9
11/18/2014 12:27	0.1	0.3	11.6	13.3	172.4	21,741.9	213.7	1.9
11/18/2014 12:28	0.1	0.3	11.6	13.3	172.6	21,712.2	215.5	2.0
11/18/2014 12:29	0.1	0.6	11.6	13.4	172.4	21,670.1	202.6	1.8
11/18/2014 12:30	0.1	0.6	11.6	13.4	172.2	21,674.9	174.6	1.5
11/18/2014 12:31	0.1	0.6	11.6	13.4	172.3	21,712.4	166.1	1.5
11/18/2014 12:32	0.1	0.6	11.6	13.4	172.3	21,705.3	165.7	1.5
11/18/2014 12:33	0.1	0.6	11.6	13.4	172.3	21,688.8	165.1	1.5
11/18/2014 12:34	0.1	0.6	11.6	13.4	172.3	21,691.3	164.9	1.5
11/18/2014 12:35	0.1	0.6	11.6	13.4	172.4	21,701.7	170.8	1.5
11/18/2014 12:36	0.1	0.6	11.6	13.4	172.2	21,685.7	174.4	1.6
11/18/2014 12:37	0.1	0.6	11.6	13.4	172.3	21,713.8	183.9	1.6
11/18/2014 12:38	0.1	0.6	11.6	13.3	172.4	21,686.5	197.4	1.8

RATA Data Report

CT1

From: 11/18/2014 10:40 **To:** 11/18/2014 12:40 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:32 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 12:39	0.1	0.6	11.6	13.3	172.5	21,722.8	206.6	1.9
11/18/2014 12:40	0.1	0.6	11.6	13.3	172.2	21,706.0	211.9	1.9
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.1	0.6	11.6	13.3	173.2	21,760.2	183.7	1.6

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 14:03	11.6	0.1	0.1	0.3	2,246.4	171.3	3,307,822.5	1.6
11/18/2014 14:04	11.6	0.1	0.1	0.3	2,246.0	171.3	3,307,233.5	1.7
11/18/2014 14:05	11.6	0.1	0.1	0.3	2,243.5	171.3	3,303,552.3	1.9
11/18/2014 14:06	11.6	0.1	0.1	0.3	2,242.1	171.3	3,301,490.8	1.9
11/18/2014 14:07	11.6	0.1	0.1	0.3	2,243.0	171.2	3,302,816.0	2.0
11/18/2014 14:08	11.6	0.2	0.1	0.6	2,239.8	171.3	3,298,104.0	1.8
11/18/2014 14:09	11.6	0.1	0.1	0.3	2,244.5	171.2	3,305,024.8	1.6
11/18/2014 14:10	11.6	0.1	0.1	0.3	2,244.1	171.1	3,304,435.8	1.5
11/18/2014 14:11	11.6	0.1	0.1	0.3	2,242.8	171.1	3,302,521.5	1.5
11/18/2014 14:12	11.6	0.1	0.1	0.3	2,241.3	171.2	3,300,312.8	1.5
11/18/2014 14:13	11.6	0.2	0.1	0.6	2,241.8	171.0	3,301,049.0	1.5
11/18/2014 14:14	11.6	0.2	0.1	0.6	2,242.4	171.0	3,301,932.5	1.5
11/18/2014 14:15	11.6	0.2	0.1	0.6	2,237.1	170.9	3,294,128.3	1.6
11/18/2014 14:16	11.6	0.1	0.1	0.3	2,240.5	170.9	3,299,134.8	1.7
11/18/2014 14:17	11.6	0.1	0.1	0.3	2,240.3	171.0	3,298,840.3	1.8
11/18/2014 14:18	11.6	0.1	0.1	0.3	2,238.7	170.8	3,296,484.3	1.9
11/18/2014 14:19	11.6	0.2	0.1	0.6	2,234.9	170.8	3,290,888.8	1.9
11/18/2014 14:20	11.6	0.2	0.1	0.6	2,236.5	170.9	3,293,244.8	1.8
11/18/2014 14:21	11.6	0.2	0.1	0.6	2,240.8	171.0	3,299,576.5	1.6
11/18/2014 14:22	11.6	0.2	0.1	0.6	2,236.7	170.9	3,293,539.3	1.5
11/18/2014 14:23	11.6	0.2	0.1	0.6	2,238.5	170.7	3,296,189.8	1.5
11/18/2014 14:24	11.6	0.2	0.1	0.6	2,238.3	171.0	3,295,895.3	1.4
11/18/2014 14:25	11.6	0.2	0.1	0.6	2,237.6	171.0	3,294,864.5	1.5
11/18/2014 14:26	11.6	0.1	0.1	0.3	2,240.4	171.0	3,298,987.5	1.5
11/18/2014 14:27	11.6	0.1	0.1	0.3	2,236.4	170.9	3,293,097.5	1.6
11/18/2014 14:28	11.6	0.1	0.1	0.3	2,239.0	171.1	3,296,926.0	1.7
11/18/2014 14:29	11.6	0.1	0.1	0.3	2,240.6	171.1	3,299,282.0	1.9
11/18/2014 14:30	11.6	0.1	0.1	0.3	2,236.8	171.1	3,293,686.5	2.0
11/18/2014 14:31	11.6	0.1	0.1	0.3	2,236.1	171.1	3,292,655.8	2.0

RATA Data Report

CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 14:32	11.6	0.1	0.1	0.3	2,240.0	171.2	3,298,398.5	1.9
11/18/2014 14:33	11.6	0.1	0.1	0.3	2,236.6	171.2	3,293,392.0	1.7
11/18/2014 14:34	11.6	0.1	0.1	0.3	2,239.9	171.1	3,298,251.3	1.5
11/18/2014 14:35	11.6	0.1	0.1	0.3	2,238.1	171.1	3,295,600.8	1.5
11/18/2014 14:36	11.6	0.1	0.1	0.3	2,237.8	171.1	3,295,159.0	1.5
11/18/2014 14:37	11.6	0.1	0.1	0.3	2,238.4	171.0	3,296,042.5	1.4
11/18/2014 14:38	11.6	0.1	0.1	0.3	2,239.0	171.1	3,296,926.0	1.5
11/18/2014 14:39	11.6	0.2	0.1	0.6	2,237.8	171.2	3,295,159.0	1.5
11/18/2014 14:40	11.6	0.1	0.1	0.3	2,236.8	171.2	3,293,686.5	1.6
11/18/2014 14:41	11.6	0.2	0.1	0.6	2,240.3	171.1	3,298,840.3	1.7
11/18/2014 14:42	11.6	0.2	0.1	0.6	2,236.0	171.1	3,292,508.5	1.8
11/18/2014 14:43	11.6	0.2	0.1	0.6	2,239.5	171.2	3,297,662.3	1.9
11/18/2014 14:44	11.6	0.2	0.1	0.6	2,240.7	171.1	3,299,429.3	1.9
11/18/2014 14:45	11.6	0.2	0.1	0.6	2,238.1	171.2	3,295,600.8	1.7
11/18/2014 14:46	11.6	0.2	0.1	0.6	2,242.1	171.0	3,301,490.8	1.5
11/18/2014 14:47	11.6	0.2	0.1	0.6	2,241.8	171.1	3,301,049.0	1.4
11/18/2014 14:48	11.6	0.2	0.1	0.6	2,237.7	171.1	3,295,011.8	1.5
11/18/2014 14:49	11.6	0.1	0.1	0.3	2,237.3	171.1	3,294,422.8	1.5
11/18/2014 14:50	11.6	0.1	0.1	0.3	2,240.2	171.2	3,298,693.0	1.5
11/18/2014 14:51	11.6	0.1	0.1	0.3	2,239.6	171.2	3,297,809.5	1.5
11/18/2014 14:52	11.6	0.1	0.1	0.3	2,235.5	171.2	3,291,772.3	1.7
11/18/2014 14:53	11.6	0.1	0.1	0.3	2,241.8	171.0	3,301,049.0	1.9
11/18/2014 14:54	11.6	0.1	0.1	0.3	2,238.7	171.0	3,296,484.3	2.1
11/18/2014 14:55	11.6	0.2	0.1	0.6	2,239.6	171.0	3,297,809.5	2.1
11/18/2014 14:56	11.6	0.2	0.1	0.6	2,237.1	171.0	3,294,128.3	2.0
11/18/2014 14:57	11.6	0.1	0.1	0.3	2,237.7	171.1	3,295,011.8	1.8
11/18/2014 14:58	11.6	0.1	0.1	0.3	2,240.7	171.0	3,299,429.3	1.5
11/18/2014 14:59	11.6	0.1	0.1	0.3	2,238.7	171.2	3,296,484.3	1.5
11/18/2014 15:00	11.6	0.1	0.1	0.3	2,236.5	171.2	3,293,244.8	1.5
11/18/2014 15:01	11.6	0.2	0.1	0.6	2,238.7	171.2	3,296,484.3	1.5

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 15:02	11.6	0.2	0.1	0.6	2,239.6	171.2	3,297,809.5	1.5
11/18/2014 15:03	11.6	0.2	0.1	0.6	2,242.1	171.1	3,301,490.8	1.5
11/18/2014 15:04	11.6	0.1	0.1	0.3	2,240.4	171.1	3,298,987.5	1.5
11/18/2014 15:05	11.6	0.2	0.1	0.6	2,236.5	171.0	3,293,244.8	1.6
11/18/2014 15:06	11.6	0.2	0.1	0.6	2,235.2	171.0	3,291,330.5	1.7
11/18/2014 15:07	11.6	0.2	0.1	0.6	2,239.4	171.2	3,297,515.0	1.8
11/18/2014 15:08	11.6	0.2	0.1	0.6	2,241.8	171.1	3,301,049.0	1.8
11/18/2014 15:09	11.6	0.2	0.1	0.6	2,243.9	171.4	3,304,141.3	1.8
11/18/2014 15:10	11.6	0.2	0.1	0.6	2,237.2	171.3	3,294,275.5	1.6
11/18/2014 15:11	11.6	0.2	0.1	0.6	2,238.0	171.2	3,295,453.5	1.5
11/18/2014 15:12	11.6	0.2	0.1	0.6	2,235.8	171.1	3,292,214.0	1.5
11/18/2014 15:13	11.6	0.2	0.1	0.6	2,235.2	171.1	3,291,330.5	1.4
11/18/2014 15:14	11.6	0.1	0.1	0.3	2,236.3	171.3	3,292,950.3	1.5
11/18/2014 15:15	11.6	0.1	0.1	0.3	2,236.3	171.1	3,292,950.3	1.5
11/18/2014 15:16	11.6	0.1	0.1	0.3	2,239.0	171.2	3,296,926.0	1.6
11/18/2014 15:17	11.6	0.1	0.1	0.3	2,238.6	171.3	3,296,337.0	1.7
11/18/2014 15:18	11.6	0.1	0.1	0.3	2,240.9	171.1	3,299,723.8	1.8
11/18/2014 15:19	11.6	0.1	0.1	0.3	2,242.1	171.3	3,301,490.8	2.0
11/18/2014 15:20	11.6	0.1	0.1	0.3	2,240.4	171.0	3,298,987.5	2.0
11/18/2014 15:21	11.6	0.1	0.1	0.3	2,240.3	171.0	3,298,840.3	1.9
11/18/2014 15:22	11.6	0.1	0.1	0.3	2,239.1	171.1	3,297,073.3	1.7
11/18/2014 15:23	11.6	0.1	0.1	0.3	2,240.1	171.0	3,298,545.8	1.5
11/18/2014 15:24	11.6	0.1	0.1	0.3	2,241.4	171.0	3,300,460.0	1.5
11/18/2014 15:25	11.6	0.1	0.1	0.3	2,240.6	171.1	3,299,282.0	1.5
11/18/2014 15:26	11.6	0.2	0.1	0.6	2,236.3	171.2	3,292,950.3	1.4
11/18/2014 15:27	11.6	0.2	0.1	0.6	2,240.1	171.0	3,298,545.8	1.5
11/18/2014 15:28	11.6	0.2	0.1	0.6	2,241.4	171.0	3,300,460.0	1.5
11/18/2014 15:29	11.6	0.2	0.1	0.6	2,239.9	170.9	3,298,251.3	1.5
11/18/2014 15:30	11.6	0.2	0.1	0.6	2,235.5	171.0	3,291,772.3	1.6
11/18/2014 15:31	11.6	0.2	0.1	0.6	2,241.1	171.1	3,300,018.3	1.8

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 15:32	11.6	0.2	0.1	0.6	2,239.9	171.0	3,298,251.3	1.9
11/18/2014 15:33	11.6	0.2	0.1	0.6	2,238.0	171.1	3,295,453.5	1.9
11/18/2014 15:34	11.6	0.2	0.1	0.6	2,242.6	171.0	3,302,227.0	1.9
11/18/2014 15:35	11.6	0.2	0.1	0.6	2,236.7	171.1	3,293,539.3	1.7
11/18/2014 15:36	11.6	0.2	0.1	0.6	2,234.8	171.0	3,290,741.5	1.5
11/18/2014 15:37	11.6	0.2	0.1	0.6	2,239.8	170.9	3,298,104.0	1.5
11/18/2014 15:38	11.6	0.2	0.1	0.6	2,235.9	171.0	3,292,361.3	1.5
11/18/2014 15:39	11.6	0.1	0.1	0.3	2,237.0	171.0	3,293,981.0	1.5
11/18/2014 15:40	11.6	0.1	0.1	0.3	2,239.9	170.9	3,298,251.3	1.5
11/18/2014 15:41	11.6	0.1	0.1	0.3	2,238.0	171.0	3,295,453.5	1.5
11/18/2014 15:42	11.6	0.2	0.1	0.6	2,238.3	171.0	3,295,895.3	1.6
11/18/2014 15:43	11.6	0.1	0.1	0.3	2,237.4	171.0	3,294,570.0	1.7
11/18/2014 15:44	11.6	0.1	0.1	0.3	2,235.0	170.9	3,291,036.0	1.8
11/18/2014 15:45	11.6	0.1	0.1	0.3	2,236.5	171.0	3,293,244.8	1.9
11/18/2014 15:46	11.6	0.2	0.1	0.6	2,239.6	171.0	3,297,809.5	1.9
11/18/2014 15:47	11.6	0.1	0.1	0.3	2,239.8	171.1	3,298,104.0	1.7
11/18/2014 15:48	11.6	0.1	0.1	0.3	2,239.1	171.1	3,297,073.3	1.6
11/18/2014 15:49	11.6	0.1	0.1	0.3	2,236.3	171.2	3,292,950.3	1.4
11/18/2014 15:50	11.6	0.1	0.1	0.3	2,236.5	171.1	3,293,244.8	1.5
11/18/2014 15:51	11.6	0.2	0.1	0.6	2,237.3	171.2	3,294,422.8	1.5
11/18/2014 15:52	11.6	0.2	0.1	0.6	2,234.4	171.2	3,290,152.5	1.5
11/18/2014 15:53	11.6	0.2	0.1	0.6	2,241.0	171.2	3,299,871.0	1.5
11/18/2014 15:54	11.6	0.2	0.1	0.6	2,238.6	171.1	3,296,337.0	1.6
11/18/2014 15:55	11.6	0.2	0.1	0.6	2,238.6	171.2	3,296,337.0	1.7
11/18/2014 15:56	11.6	0.2	0.1	0.6	2,237.6	171.2	3,294,864.5	1.8
11/18/2014 15:57	11.6	0.2	0.1	0.6	2,241.0	171.2	3,299,871.0	1.9
11/18/2014 15:58	11.6	0.2	0.1	0.6	2,237.1	171.0	3,294,128.3	1.9
11/18/2014 15:59	11.6	0.2	0.1	0.6	2,235.6	171.2	3,291,919.5	1.8
11/18/2014 16:00	11.6	0.2	0.1	0.6	2,240.7	171.2	3,299,429.3	1.6
11/18/2014 16:01	11.6	0.1	0.1	0.3	2,238.3	171.2	3,295,895.3	1.5

RATA Data Report

CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:02	11.6	0.1	0.1	0.3	2,236.8	171.3	3,293,686.5	1.5
11/18/2014 16:03	11.6	0.1	0.1	0.3	2,239.2	171.3	3,297,220.5	1.4
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	0.1	0.1	0.4	2,239.0	171.1	3,296,955.2	1.7

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 14:03	0.1	0.3	11.6	13.4	171.3	21,698.1	180.8	1.6
11/18/2014 14:04	0.1	0.3	11.6	13.4	171.3	21,694.0	192.1	1.7
11/18/2014 14:05	0.1	0.3	11.6	13.4	171.3	21,670.0	207.9	1.9
11/18/2014 14:06	0.1	0.3	11.6	13.4	171.3	21,657.2	212.8	1.9
11/18/2014 14:07	0.1	0.3	11.6	13.4	171.2	21,665.2	215.4	2.0
11/18/2014 14:08	0.1	0.6	11.6	13.4	171.3	21,634.8	201.7	1.8
11/18/2014 14:09	0.1	0.3	11.6	13.4	171.2	21,680.4	181.4	1.6
11/18/2014 14:10	0.1	0.3	11.6	13.4	171.1	21,676.5	164.9	1.5
11/18/2014 14:11	0.1	0.3	11.6	13.4	171.1	21,663.6	165.4	1.5
11/18/2014 14:12	0.1	0.3	11.6	13.4	171.2	21,648.8	165.5	1.5
11/18/2014 14:13	0.1	0.6	11.6	13.4	171.0	21,653.4	164.5	1.5
11/18/2014 14:14	0.1	0.6	11.6	13.4	171.0	21,659.7	170.6	1.5
11/18/2014 14:15	0.1	0.6	11.6	13.4	170.9	21,608.2	178.0	1.6
11/18/2014 14:16	0.1	0.3	11.6	13.3	170.9	21,641.1	189.5	1.7
11/18/2014 14:17	0.1	0.3	11.6	13.4	171.0	21,639.5	201.5	1.8
11/18/2014 14:18	0.1	0.3	11.6	13.4	170.8	21,624.4	211.6	1.9
11/18/2014 14:19	0.1	0.6	11.6	13.4	170.8	21,586.8	211.4	1.9
11/18/2014 14:20	0.1	0.6	11.6	13.4	170.9	21,602.5	203.8	1.8
11/18/2014 14:21	0.1	0.6	11.6	13.4	171.0	21,644.0	180.6	1.6
11/18/2014 14:22	0.1	0.6	11.6	13.4	170.9	21,604.2	165.0	1.5
11/18/2014 14:23	0.1	0.6	11.6	13.3	170.7	21,621.7	164.8	1.5
11/18/2014 14:24	0.1	0.6	11.6	13.3	171.0	21,620.2	164.0	1.4
11/18/2014 14:25	0.1	0.6	11.6	13.3	171.0	21,613.5	165.5	1.5
11/18/2014 14:26	0.1	0.3	11.6	13.4	171.0	21,640.7	169.2	1.5
11/18/2014 14:27	0.1	0.3	11.6	13.4	170.9	21,601.7	176.9	1.6
11/18/2014 14:28	0.1	0.3	11.6	13.3	171.1	21,626.5	189.2	1.7
11/18/2014 14:29	0.1	0.3	11.6	13.4	171.1	21,642.3	205.8	1.9
11/18/2014 14:30	0.1	0.3	11.6	13.4	171.1	21,605.6	217.2	2.0
11/18/2014 14:31	0.1	0.3	11.6	13.4	171.1	21,598.9	223.7	2.0

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 14:32	0.1	0.3	11.6	13.4	171.2	21,636.5	211.5	1.9
11/18/2014 14:33	0.1	0.3	11.6	13.3	171.2	21,603.8	189.5	1.7
11/18/2014 14:34	0.1	0.3	11.6	13.3	171.1	21,635.8	166.6	1.5
11/18/2014 14:35	0.1	0.3	11.6	13.3	171.1	21,618.0	164.5	1.5
11/18/2014 14:36	0.1	0.3	11.6	13.4	171.1	21,614.9	165.3	1.5
11/18/2014 14:37	0.1	0.3	11.6	13.3	171.0	21,620.6	163.0	1.4
11/18/2014 14:38	0.1	0.3	11.6	13.3	171.1	21,626.9	169.3	1.5
11/18/2014 14:39	0.1	0.6	11.6	13.4	171.2	21,614.9	172.1	1.5
11/18/2014 14:40	0.1	0.3	11.6	13.4	171.2	21,605.3	179.5	1.6
11/18/2014 14:41	0.1	0.6	11.6	13.3	171.1	21,639.1	188.3	1.7
11/18/2014 14:42	0.1	0.6	11.6	13.3	171.1	21,598.2	200.5	1.8
11/18/2014 14:43	0.1	0.6	11.6	13.3	171.2	21,631.8	206.5	1.9
11/18/2014 14:44	0.1	0.6	11.6	13.3	171.1	21,643.0	207.5	1.9
11/18/2014 14:45	0.1	0.6	11.6	13.3	171.2	21,618.3	193.7	1.7
11/18/2014 14:46	0.1	0.6	11.6	13.3	171.0	21,656.7	172.6	1.5
11/18/2014 14:47	0.1	0.6	11.6	13.3	171.1	21,654.3	163.6	1.4
11/18/2014 14:48	0.1	0.6	11.6	13.3	171.1	21,614.4	164.1	1.5
11/18/2014 14:49	0.1	0.3	11.6	13.3	171.1	21,610.3	164.2	1.5
11/18/2014 14:50	0.1	0.3	11.6	13.3	171.2	21,638.3	164.3	1.5
11/18/2014 14:51	0.1	0.3	11.6	13.3	171.2	21,632.6	173.9	1.5
11/18/2014 14:52	0.1	0.3	11.6	13.3	171.2	21,593.5	188.8	1.7
11/18/2014 14:53	0.1	0.3	11.6	13.3	171.0	21,654.2	205.6	1.9
11/18/2014 14:54	0.1	0.3	11.6	13.3	171.0	21,624.0	224.9	2.1
11/18/2014 14:55	0.1	0.6	11.6	13.3	171.0	21,632.6	229.3	2.1
11/18/2014 14:56	0.1	0.6	11.6	13.4	171.0	21,608.7	220.3	2.0
11/18/2014 14:57	0.1	0.3	11.6	13.4	171.1	21,614.4	194.8	1.8
11/18/2014 14:58	0.1	0.3	11.6	13.4	171.0	21,643.0	166.1	1.5
11/18/2014 14:59	0.1	0.3	11.6	13.4	171.2	21,623.8	166.6	1.5
11/18/2014 15:00	0.1	0.3	11.6	13.4	171.2	21,603.0	165.9	1.5
11/18/2014 15:01	0.1	0.6	11.6	13.3	171.2	21,623.8	165.3	1.5

RATA Data Report

CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 15:02	0.1	0.6	11.6	13.3	171.2	21,632.5	165.3	1.5
11/18/2014 15:03	0.1	0.6	11.6	13.3	171.1	21,657.2	171.7	1.5
11/18/2014 15:04	0.1	0.3	11.6	13.3	171.1	21,640.5	173.7	1.5
11/18/2014 15:05	0.1	0.6	11.6	13.3	171.0	21,603.0	179.2	1.6
11/18/2014 15:06	0.1	0.6	11.6	13.4	171.0	21,590.0	188.3	1.7
11/18/2014 15:07	0.1	0.6	11.6	13.3	171.2	21,630.9	195.7	1.8
11/18/2014 15:08	0.1	0.6	11.6	13.3	171.1	21,654.0	196.9	1.8
11/18/2014 15:09	0.1	0.6	11.6	13.3	171.4	21,673.9	195.0	1.8
11/18/2014 15:10	0.1	0.6	11.6	13.4	171.3	21,609.1	183.2	1.6
11/18/2014 15:11	0.1	0.6	11.6	13.4	171.2	21,617.3	168.4	1.5
11/18/2014 15:12	0.1	0.6	11.6	13.4	171.1	21,595.5	164.2	1.5
11/18/2014 15:13	0.1	0.6	11.6	13.3	171.1	21,590.0	162.8	1.4
11/18/2014 15:14	0.1	0.3	11.6	13.4	171.3	21,601.0	164.6	1.5
11/18/2014 15:15	0.1	0.3	11.6	13.4	171.1	21,601.2	169.0	1.5
11/18/2014 15:16	0.1	0.3	11.6	13.3	171.2	21,626.9	175.7	1.6
11/18/2014 15:17	0.1	0.3	11.6	13.4	171.3	21,622.9	188.3	1.7
11/18/2014 15:18	0.1	0.3	11.6	13.3	171.1	21,645.3	203.9	1.8
11/18/2014 15:19	0.1	0.3	11.6	13.3	171.3	21,657.2	217.6	2.0
11/18/2014 15:20	0.1	0.3	11.6	13.3	171.0	21,640.5	220.3	2.0
11/18/2014 15:21	0.1	0.3	11.6	13.4	171.0	21,639.7	213.0	1.9
11/18/2014 15:22	0.1	0.3	11.6	13.4	171.1	21,627.9	189.1	1.7
11/18/2014 15:23	0.1	0.3	11.6	13.3	171.0	21,637.5	166.4	1.5
11/18/2014 15:24	0.1	0.3	11.6	13.4	171.0	21,650.3	165.0	1.5
11/18/2014 15:25	0.1	0.3	11.6	13.3	171.1	21,642.2	165.9	1.5
11/18/2014 15:26	0.1	0.6	11.6	13.4	171.2	21,600.7	163.5	1.4
11/18/2014 15:27	0.1	0.6	11.6	13.3	171.0	21,637.6	164.6	1.5
11/18/2014 15:28	0.1	0.6	11.6	13.4	171.0	21,649.6	168.1	1.5
11/18/2014 15:29	0.1	0.6	11.6	13.3	170.9	21,635.9	173.1	1.5
11/18/2014 15:30	0.1	0.6	11.6	13.4	171.0	21,592.8	182.0	1.6
11/18/2014 15:31	0.1	0.6	11.6	13.4	171.1	21,647.2	196.6	1.8

RATA Data Report
CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 15:32	0.1	0.6	11.6	13.3	171.0	21,635.1	206.1	1.9
11/18/2014 15:33	0.1	0.6	11.6	13.3	171.1	21,616.7	210.8	1.9
11/18/2014 15:34	0.1	0.6	11.6	13.4	171.0	21,661.5	206.6	1.9
11/18/2014 15:35	0.1	0.6	11.6	13.3	171.1	21,604.6	190.0	1.7
11/18/2014 15:36	0.1	0.6	11.6	13.3	171.0	21,586.3	167.4	1.5
11/18/2014 15:37	0.1	0.6	11.6	13.3	170.9	21,635.0	164.7	1.5
11/18/2014 15:38	0.1	0.6	11.6	13.3	171.0	21,596.7	164.0	1.5
11/18/2014 15:39	0.1	0.3	11.6	13.3	171.0	21,607.8	164.0	1.5
11/18/2014 15:40	0.1	0.3	11.6	13.3	170.9	21,635.2	164.4	1.5
11/18/2014 15:41	0.1	0.3	11.6	13.3	171.0	21,616.7	168.4	1.5
11/18/2014 15:42	0.1	0.6	11.6	13.4	171.0	21,619.9	176.1	1.6
11/18/2014 15:43	0.1	0.3	11.6	13.3	171.0	21,611.0	188.8	1.7
11/18/2014 15:44	0.1	0.3	11.6	13.3	170.9	21,587.9	196.5	1.8
11/18/2014 15:45	0.1	0.3	11.6	13.3	171.0	21,602.3	206.1	1.9
11/18/2014 15:46	0.1	0.6	11.6	13.3	171.0	21,632.7	207.2	1.9
11/18/2014 15:47	0.1	0.3	11.6	13.3	171.1	21,635.0	193.4	1.7
11/18/2014 15:48	0.1	0.3	11.6	13.4	171.1	21,627.7	176.8	1.6
11/18/2014 15:49	0.1	0.3	11.6	13.3	171.2	21,600.5	163.3	1.4
11/18/2014 15:50	0.1	0.3	11.6	13.3	171.1	21,602.8	164.5	1.5
11/18/2014 15:51	0.1	0.6	11.6	13.3	171.2	21,610.6	163.8	1.5
11/18/2014 15:52	0.1	0.6	11.6	13.3	171.2	21,582.7	164.1	1.5
11/18/2014 15:53	0.1	0.6	11.6	13.4	171.2	21,645.8	168.6	1.5
11/18/2014 15:54	0.1	0.6	11.6	13.3	171.1	21,623.4	176.6	1.6
11/18/2014 15:55	0.1	0.6	11.6	13.4	171.2	21,622.6	186.2	1.7
11/18/2014 15:56	0.1	0.6	11.6	13.3	171.2	21,613.1	197.4	1.8
11/18/2014 15:57	0.1	0.6	11.6	13.4	171.2	21,646.5	208.5	1.9
11/18/2014 15:58	0.1	0.6	11.6	13.3	171.0	21,608.3	208.2	1.9
11/18/2014 15:59	0.1	0.6	11.6	13.3	171.2	21,593.8	201.8	1.8
11/18/2014 16:00	0.1	0.6	11.6	13.3	171.2	21,643.2	183.8	1.6
11/18/2014 16:01	0.1	0.3	11.6	13.4	171.2	21,620.0	164.8	1.5

RATA Data Report
CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:02	0.1	0.3	11.6	13.3	171.3	21,605.5	163.9	1.5
11/18/2014 16:03	0.1	0.3	11.6	13.3	171.3	21,628.7	163.7	1.4
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.1	0.4	11.6	13.3	171.1	21,627.0	183.6	1.7

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 14:03	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:04	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:05	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:06	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:07	11.6	1.5	1.0	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:08	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:09	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:10	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:11	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:12	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:13	11.6	1.5	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 14:14	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 14:15	11.6	1.7	1.1	0.004	8.9	9.5	12.1	13.4
11/18/2014 14:16	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 14:17	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:18	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:19	11.6	1.6	1.0	0.004	8.9	9.5	12.1	13.4
11/18/2014 14:20	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:21	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:22	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:23	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 14:24	11.6	1.4	0.9	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:25	11.6	1.5	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:26	11.6	1.7	1.1	0.004	9.0	9.6	12.2	13.4
11/18/2014 14:27	11.6	1.7	1.1	0.004	8.9	9.6	12.2	13.4
11/18/2014 14:28	11.6	1.8	1.1	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:29	11.6	1.8	1.1	0.004	9.0	9.6	12.2	13.4
11/18/2014 14:30	11.6	1.7	1.1	0.004	8.9	9.6	12.2	13.4
11/18/2014 14:31	11.6	1.6	1.0	0.004	8.9	9.6	12.2	13.4

RATA Data Report

CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 14:32	11.6	1.4	0.9	0.003	6.7	9.6	12.2	13.4
11/18/2014 14:33	11.6	1.3	0.8	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:34	11.6	1.2	0.8	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:35	11.6	1.2	0.8	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:36	11.6	1.3	0.8	0.003	6.7	9.6	12.2	13.4
11/18/2014 14:37	11.6	1.4	0.9	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:38	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 14:39	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 14:40	11.6	1.7	1.1	0.004	8.9	9.5	12.1	13.4
11/18/2014 14:41	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 14:42	11.6	1.7	1.1	0.004	8.9	9.5	12.2	13.3
11/18/2014 14:43	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:44	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 14:45	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 14:46	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 14:47	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 14:48	11.6	1.4	0.9	0.003	6.7	9.5	12.2	13.3
11/18/2014 14:49	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 14:50	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:51	11.6	1.7	1.1	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:52	11.6	1.8	1.1	0.004	8.9	9.5	12.2	13.3
11/18/2014 14:53	11.6	1.8	1.1	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:54	11.6	1.7	1.1	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:55	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 14:56	11.6	1.4	0.9	0.003	6.7	9.6	12.2	13.4
11/18/2014 14:57	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:58	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 14:59	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 15:00	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 15:01	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 15:02	11.6	1.5	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 15:03	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 15:04	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:05	11.6	1.7	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 15:06	11.6	1.7	1.1	0.004	8.9	9.5	12.1	13.4
11/18/2014 15:07	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:08	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:09	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:10	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 15:11	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 15:12	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 15:13	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 15:14	11.6	1.6	1.0	0.004	8.9	9.5	12.1	13.4
11/18/2014 15:15	11.6	1.7	1.1	0.004	8.9	9.5	12.1	13.4
11/18/2014 15:16	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:17	11.6	1.8	1.1	0.004	9.0	9.5	12.1	13.4
11/18/2014 15:18	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:19	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:20	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 15:21	11.6	1.4	0.9	0.003	6.7	9.5	12.1	13.4
11/18/2014 15:22	11.6	1.3	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 15:23	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 15:24	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 15:25	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 15:26	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 15:27	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 15:28	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:29	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 15:30	11.6	1.7	1.1	0.004	8.9	9.4	12.0	13.4
11/18/2014 15:31	11.6	1.7	1.1	0.004	9.0	9.5	12.1	13.4

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 15:32	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:33	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:34	11.6	1.5	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:35	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 15:36	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 15:37	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 15:38	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 15:39	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 15:40	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:41	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:42	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:43	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 15:44	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 15:45	11.6	1.7	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 15:46	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 15:47	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 15:48	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 15:49	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 15:50	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 15:51	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 15:52	11.6	1.5	1.0	0.004	8.9	9.3	12.0	13.3
11/18/2014 15:53	11.6	1.6	1.0	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:54	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 15:55	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:56	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 15:57	11.6	1.7	1.1	0.004	9.0	9.4	12.0	13.4
11/18/2014 15:58	11.6	1.6	1.0	0.004	8.9	9.3	12.0	13.3
11/18/2014 15:59	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 16:00	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 16:01	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4

RATA Data Report

CT1

From: 11/18/2014 14:03 **To:** 11/18/2014 16:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:37 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 16:02	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 16:03	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.5	1.0	0.004	8.1	9.4	12.1	13.3

RATA Data Report

CT1

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 16:15	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:16	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 16:17	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:18	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:19	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 16:20	11.6	1.7	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 16:21	11.6	1.7	1.1	0.004	8.9	9.4	12.0	13.4
11/18/2014 16:22	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 16:23	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 16:24	11.6	1.3	0.8	0.003	6.7	9.2	11.9	13.3
11/18/2014 16:25	11.6	1.3	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 16:26	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:27	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:28	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 16:29	11.6	1.6	1.0	0.004	9.0	9.5	12.2	13.3
11/18/2014 16:30	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:31	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:32	11.6	1.8	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 16:33	11.6	1.7	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 16:34	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:35	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:36	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:37	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:38	11.6	1.2	0.8	0.003	6.7	9.5	12.1	13.4
11/18/2014 16:39	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:40	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:41	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:42	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:43	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 16:44	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:45	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:46	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:47	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:48	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:49	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:50	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:51	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 16:52	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:53	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:54	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:55	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:56	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:57	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:58	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 16:59	11.6	1.4	0.9	0.003	6.7	9.4	12.0	13.4
11/18/2014 17:00	11.6	1.3	0.8	0.003	6.7	9.4	12.0	13.4
11/18/2014 17:01	11.6	1.2	0.8	0.003	6.7	9.4	11.9	13.4
11/18/2014 17:02	11.6	1.2	0.8	0.003	6.7	9.3	12.0	13.3
11/18/2014 17:03	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:04	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:05	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:06	11.6	1.6	1.0	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:07	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:08	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:09	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:10	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:11	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:12	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:13	11.6	1.5	1.0	0.004	8.9	9.3	12.0	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 17:14	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:15	11.6	1.5	1.0	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:16	11.6	1.6	1.0	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:17	11.6	1.7	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:18	11.6	1.8	1.1	0.004	8.9	9.3	12.0	13.3
11/18/2014 17:19	11.6	1.8	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 17:20	11.6	1.8	1.1	0.004	8.9	9.4	12.1	13.3
11/18/2014 17:21	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:22	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 17:23	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:24	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:25	11.6	1.1	0.7	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:26	11.6	1.1	0.7	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:27	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:28	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:29	11.6	1.5	1.0	0.004	8.9	9.4	12.1	13.3
11/18/2014 17:30	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:31	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:32	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:33	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:34	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:35	11.6	1.7	1.1	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:36	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:37	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:38	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:39	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:40	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:41	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:42	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:43	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3

RATA Data Report

CT1

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 17:44	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:45	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:46	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:47	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:48	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:49	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:50	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:51	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:52	11.6	1.2	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:53	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
11/18/2014 17:54	11.6	1.4	0.9	0.003	6.7	9.3	12.0	13.3
11/18/2014 17:55	11.6	1.5	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:56	11.6	1.6	1.0	0.004	9.0	9.3	12.0	13.3
11/18/2014 17:57	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:58	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 17:59	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:00	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:01	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:02	11.6	1.5	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:03	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 18:04	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 18:05	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 18:06	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 18:07	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:08	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:09	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:10	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:11	11.6	1.8	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:12	11.6	1.7	1.1	0.004	9.0	9.4	12.1	13.3
11/18/2014 18:13	11.6	1.6	1.0	0.004	9.0	9.4	12.1	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 NOx, Ppm 1 Minute(s)	Unit CT1 NOx, Ppmvdc 1 Minute(s)	Unit CT1 NOx, LbPerMBtu 1 Minute(s)	Unit CT1 NOx, LbPerHr 1 Minute(s)	Unit CT1 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT1 NOx, Inlet, Ppm 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)
11/18/2014 18:14	11.6	1.4	0.9	0.003	6.7	9.4	12.1	13.3
11/18/2014 18:15	11.6	1.3	0.8	0.003	6.7	9.4	12.1	13.3
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.5	1.0	0.004	8.2	9.4	12.1	13.3

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, Mwe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:15	11.6	0.2	0.1	0.6	2,233.7	171.3	3,289,121.8	1.4
11/18/2014 16:16	11.6	0.2	0.1	0.6	2,237.7	171.2	3,295,011.8	1.4
11/18/2014 16:17	11.6	0.2	0.1	0.6	2,240.4	171.3	3,298,987.5	1.5
11/18/2014 16:18	11.6	0.2	0.1	0.6	2,240.6	171.3	3,299,282.0	1.6
11/18/2014 16:19	11.6	0.2	0.1	0.6	2,239.5	171.3	3,297,662.3	1.7
11/18/2014 16:20	11.6	0.2	0.1	0.6	2,235.3	171.1	3,291,477.8	1.8
11/18/2014 16:21	11.6	0.2	0.1	0.6	2,237.3	171.1	3,294,422.8	1.9
11/18/2014 16:22	11.6	0.2	0.1	0.6	2,240.3	171.1	3,298,840.3	1.9
11/18/2014 16:23	11.6	0.2	0.1	0.6	2,237.9	171.2	3,295,306.3	1.8
11/18/2014 16:24	11.6	0.2	0.1	0.6	2,239.4	171.4	3,297,515.0	1.7
11/18/2014 16:25	11.6	0.2	0.1	0.6	2,235.1	171.3	3,291,183.3	1.5
11/18/2014 16:26	11.6	0.2	0.1	0.6	2,235.2	171.3	3,291,330.5	1.5
11/18/2014 16:27	11.6	0.2	0.1	0.6	2,235.7	171.3	3,292,066.8	1.4
11/18/2014 16:28	11.6	0.2	0.1	0.6	2,236.2	171.3	3,292,803.0	1.5
11/18/2014 16:29	11.6	0.2	0.1	0.6	2,240.4	171.3	3,298,987.5	1.5
11/18/2014 16:30	11.6	0.1	0.1	0.3	2,237.7	171.4	3,295,011.8	1.5
11/18/2014 16:31	11.6	0.1	0.1	0.3	2,238.5	171.4	3,296,189.8	1.6
11/18/2014 16:32	11.6	0.1	0.1	0.3	2,234.3	171.4	3,290,005.3	1.7
11/18/2014 16:33	11.6	0.1	0.1	0.3	2,233.8	171.4	3,289,269.0	1.9
11/18/2014 16:34	11.6	0.1	0.1	0.3	2,239.0	171.3	3,296,926.0	2.0
11/18/2014 16:35	11.6	0.2	0.1	0.6	2,239.4	171.4	3,297,515.0	1.9
11/18/2014 16:36	11.6	0.2	0.1	0.6	2,240.2	171.3	3,298,693.0	1.7
11/18/2014 16:37	11.6	0.2	0.1	0.6	2,238.9	171.4	3,296,778.8	1.5
11/18/2014 16:38	11.6	0.2	0.1	0.6	2,237.7	171.3	3,295,011.8	1.4
11/18/2014 16:39	11.6	0.2	0.1	0.6	2,237.3	171.4	3,294,422.8	1.5
11/18/2014 16:40	11.6	0.2	0.1	0.6	2,238.1	171.4	3,295,600.8	1.4
11/18/2014 16:41	11.6	0.2	0.1	0.6	2,241.6	171.4	3,300,754.5	1.5
11/18/2014 16:42	11.6	0.2	0.1	0.6	2,243.1	171.4	3,302,963.3	1.5
11/18/2014 16:43	11.6	0.2	0.1	0.6	2,241.0	171.3	3,299,871.0	1.6

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:44	11.6	0.2	0.1	0.6	2,241.5	171.5	3,300,607.3	1.7
11/18/2014 16:45	11.6	0.2	0.1	0.6	2,238.7	171.3	3,296,484.3	1.7
11/18/2014 16:46	11.6	0.2	0.1	0.6	2,239.2	171.4	3,297,220.5	1.8
11/18/2014 16:47	11.6	0.2	0.1	0.6	2,240.6	171.4	3,299,282.0	1.8
11/18/2014 16:48	11.6	0.2	0.1	0.6	2,244.0	171.5	3,304,288.5	1.7
11/18/2014 16:49	11.6	0.2	0.1	0.6	2,244.2	171.5	3,304,583.0	1.5
11/18/2014 16:50	11.6	0.2	0.1	0.6	2,242.0	171.4	3,301,343.5	1.5
11/18/2014 16:51	11.6	0.2	0.1	0.6	2,239.8	171.6	3,298,104.0	1.4
11/18/2014 16:52	11.6	0.2	0.1	0.6	2,241.0	171.5	3,299,871.0	1.4
11/18/2014 16:53	11.6	0.1	0.1	0.3	2,241.2	171.4	3,300,165.5	1.5
11/18/2014 16:54	11.6	0.1	0.1	0.3	2,240.3	171.5	3,298,840.3	1.6
11/18/2014 16:55	11.6	0.1	0.1	0.3	2,239.6	171.5	3,297,809.5	1.7
11/18/2014 16:56	11.6	0.2	0.1	0.6	2,241.0	171.6	3,299,871.0	1.8
11/18/2014 16:57	11.6	0.2	0.1	0.6	2,241.7	171.7	3,300,901.8	2.0
11/18/2014 16:58	11.6	0.2	0.1	0.6	2,241.0	171.7	3,299,871.0	2.0
11/18/2014 16:59	11.6	0.1	0.1	0.3	2,239.4	171.5	3,297,515.0	1.9
11/18/2014 17:00	11.6	0.1	0.1	0.3	2,238.6	171.4	3,296,337.0	1.6
11/18/2014 17:01	11.6	0.1	0.1	0.3	2,240.8	171.5	3,299,576.5	1.5
11/18/2014 17:02	11.6	0.1	0.1	0.3	2,235.9	171.7	3,292,361.3	1.5
11/18/2014 17:03	11.6	0.1	0.1	0.3	2,235.8	171.6	3,292,214.0	1.5
11/18/2014 17:04	11.6	0.1	0.1	0.3	2,244.1	171.7	3,304,435.8	1.5
11/18/2014 17:05	11.6	0.2	0.1	0.6	2,240.0	171.7	3,298,398.5	1.5
11/18/2014 17:06	11.6	0.2	0.1	0.6	2,236.9	171.7	3,293,833.8	1.5
11/18/2014 17:07	11.6	0.2	0.1	0.6	2,235.8	171.9	3,292,214.0	1.6
11/18/2014 17:08	11.6	0.2	0.1	0.6	2,236.9	171.8	3,293,833.8	1.6
11/18/2014 17:09	11.6	0.2	0.1	0.6	2,234.0	171.9	3,289,563.5	1.7
11/18/2014 17:10	11.6	0.2	0.1	0.6	2,243.5	172.0	3,303,552.3	1.7
11/18/2014 17:11	11.6	0.2	0.1	0.6	2,242.4	171.8	3,301,932.5	1.7
11/18/2014 17:12	11.6	0.2	0.1	0.6	2,237.8	171.7	3,295,159.0	1.6
11/18/2014 17:13	11.6	0.2	0.1	0.6	2,236.5	171.7	3,293,244.8	1.6

RATA Data Report

CT1

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 17:14	11.6	0.2	0.1	0.6	2,238.7	171.6	3,296,484.3	1.4
11/18/2014 17:15	11.6	0.2	0.1	0.6	2,233.2	171.7	3,288,385.5	1.5
11/18/2014 17:16	11.6	0.2	0.1	0.6	2,234.3	171.6	3,290,005.3	1.4
11/18/2014 17:17	11.6	0.1	0.1	0.3	2,235.4	171.7	3,291,625.0	1.5
11/18/2014 17:18	11.6	0.1	0.1	0.3	2,233.7	171.5	3,289,121.8	1.6
11/18/2014 17:19	11.6	0.1	0.1	0.3	2,234.9	171.6	3,290,888.8	1.8
11/18/2014 17:20	11.6	0.1	0.1	0.3	2,234.5	171.6	3,290,299.8	2.0
11/18/2014 17:21	11.6	0.1	0.1	0.3	2,238.3	171.7	3,295,895.3	2.1
11/18/2014 17:22	11.6	0.1	0.1	0.3	2,235.3	171.6	3,291,477.8	2.1
11/18/2014 17:23	11.6	0.2	0.1	0.6	2,236.6	171.7	3,293,392.0	2.0
11/18/2014 17:24	11.6	0.2	0.1	0.6	2,235.2	171.9	3,291,330.5	1.7
11/18/2014 17:25	11.6	0.2	0.1	0.6	2,236.1	171.8	3,292,655.8	1.5
11/18/2014 17:26	11.6	0.2	0.1	0.6	2,234.2	171.9	3,289,858.0	1.5
11/18/2014 17:27	11.6	0.2	0.1	0.6	2,234.7	171.9	3,290,594.3	1.5
11/18/2014 17:28	11.6	0.2	0.1	0.6	2,235.8	172.0	3,292,214.0	1.5
11/18/2014 17:29	11.6	0.2	0.1	0.6	2,236.9	171.9	3,293,833.8	1.5
11/18/2014 17:30	11.6	0.2	0.1	0.6	2,241.3	171.8	3,300,312.8	1.5
11/18/2014 17:31	11.6	0.2	0.1	0.6	2,244.0	171.9	3,304,288.5	1.5
11/18/2014 17:32	11.6	0.2	0.1	0.6	2,241.9	171.9	3,301,196.3	1.5
11/18/2014 17:33	11.6	0.2	0.1	0.6	2,240.7	171.9	3,299,429.3	1.6
11/18/2014 17:34	11.6	0.2	0.1	0.6	2,242.0	171.9	3,301,343.5	1.7
11/18/2014 17:35	11.6	0.2	0.1	0.6	2,242.9	171.8	3,302,668.8	1.8
11/18/2014 17:36	11.6	0.2	0.1	0.6	2,243.6	171.9	3,303,699.5	1.8
11/18/2014 17:37	11.6	0.2	0.1	0.6	2,242.5	172.0	3,302,079.8	1.9
11/18/2014 17:38	11.6	0.2	0.1	0.6	2,245.2	171.9	3,306,055.5	1.8
11/18/2014 17:39	11.6	0.2	0.1	0.6	2,243.2	172.1	3,303,110.5	1.5
11/18/2014 17:40	11.6	0.2	0.1	0.6	2,240.4	171.9	3,298,987.5	1.5
11/18/2014 17:41	11.6	0.1	0.1	0.3	2,241.3	172.0	3,300,312.8	1.4
11/18/2014 17:42	11.6	0.2	0.1	0.6	2,245.5	172.1	3,306,497.3	1.4
11/18/2014 17:43	11.6	0.2	0.1	0.6	2,242.6	172.0	3,302,227.0	1.5

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 17:44	11.6	0.2	0.1	0.6	2,244.4	172.1	3,304,877.5	1.5
11/18/2014 17:45	11.6	0.2	0.1	0.6	2,247.0	172.0	3,308,706.0	1.7
11/18/2014 17:46	11.6	0.1	0.1	0.3	2,240.8	172.1	3,299,576.5	1.8
11/18/2014 17:47	11.6	0.2	0.1	0.6	2,240.3	172.2	3,298,840.3	2.0
11/18/2014 17:48	11.6	0.2	0.1	0.6	2,246.0	172.0	3,307,233.5	2.0
11/18/2014 17:49	11.6	0.1	0.1	0.3	2,242.0	171.8	3,301,343.5	2.0
11/18/2014 17:50	11.6	0.1	0.1	0.3	2,239.1	171.9	3,297,073.3	1.8
11/18/2014 17:51	11.6	0.1	0.1	0.3	2,237.3	172.0	3,294,422.8	1.5
11/18/2014 17:52	11.6	0.1	0.1	0.3	2,241.0	172.1	3,299,871.0	1.5
11/18/2014 17:53	11.6	0.1	0.1	0.3	2,241.8	172.0	3,301,049.0	1.5
11/18/2014 17:54	11.6	0.1	0.1	0.3	2,241.6	171.9	3,300,754.5	1.5
11/18/2014 17:55	11.6	0.2	0.1	0.6	2,243.8	172.0	3,303,994.0	1.5
11/18/2014 17:56	11.6	0.2	0.1	0.6	2,244.7	172.2	3,305,319.3	1.5
11/18/2014 17:57	11.6	0.2	0.1	0.6	2,245.8	172.1	3,306,939.0	1.6
11/18/2014 17:58	11.6	0.2	0.1	0.6	2,246.5	172.0	3,307,969.8	1.6
11/18/2014 17:59	11.6	0.2	0.1	0.6	2,246.1	172.0	3,307,380.8	1.7
11/18/2014 18:00	11.6	0.2	0.1	0.6	2,246.2	172.1	3,307,528.0	1.8
11/18/2014 18:01	11.6	0.2	0.1	0.6	2,244.8	172.1	3,305,466.5	1.8
11/18/2014 18:02	11.6	0.2	0.1	0.6	2,239.9	172.1	3,298,251.3	1.8
11/18/2014 18:03	11.6	0.2	0.1	0.6	2,240.6	172.1	3,299,282.0	1.7
11/18/2014 18:04	11.6	0.2	0.1	0.6	2,241.4	172.2	3,300,460.0	1.5
11/18/2014 18:05	11.6	0.2	0.1	0.6	2,239.6	172.4	3,297,809.5	1.5
11/18/2014 18:06	11.6	0.2	0.1	0.6	2,243.9	172.2	3,304,141.3	1.4
11/18/2014 18:07	11.6	0.2	0.1	0.6	2,244.8	172.2	3,305,466.5	1.4
11/18/2014 18:08	11.6	0.2	0.1	0.6	2,239.1	172.3	3,297,073.3	1.5
11/18/2014 18:09	11.6	0.2	0.1	0.6	2,242.5	172.3	3,302,079.8	1.5
11/18/2014 18:10	11.6	0.2	0.1	0.6	2,245.6	172.2	3,306,644.5	1.7
11/18/2014 18:11	11.6	0.1	0.1	0.3	2,239.3	172.2	3,297,367.8	1.8
11/18/2014 18:12	11.6	0.1	0.1	0.3	2,246.0	172.2	3,307,233.5	2.0
11/18/2014 18:13	11.6	0.1	0.1	0.3	2,242.9	172.1	3,302,668.8	2.0

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 CO, Ppm 1 Minute(s)	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 HI, MBtuPerHr 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 18:14	11.6	0.1	0.1	0.3	2,241.8	172.1	3,301,049.0	2.0
11/18/2014 18:15	11.6	0.1	0.1	0.3	2,241.5	172.1	3,300,607.3	1.8
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	0.2	0.1	0.5	2,239.9	171.7	3,298,307.3	1.6

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:15	0.1	0.6	11.6	13.3	171.3	21,575.9	163.4	1.4
11/18/2014 16:16	0.1	0.6	11.6	13.3	171.2	21,614.4	163.2	1.4
11/18/2014 16:17	0.1	0.6	11.6	13.3	171.3	21,640.7	167.7	1.5
11/18/2014 16:18	0.1	0.6	11.6	13.3	171.3	21,642.6	174.0	1.6
11/18/2014 16:19	0.1	0.6	11.6	13.3	171.3	21,632.1	186.5	1.7
11/18/2014 16:20	0.1	0.6	11.6	13.3	171.1	21,590.7	198.8	1.8
11/18/2014 16:21	0.1	0.6	11.6	13.4	171.1	21,610.8	209.8	1.9
11/18/2014 16:22	0.1	0.6	11.6	13.3	171.1	21,639.4	209.3	1.9
11/18/2014 16:23	0.1	0.6	11.6	13.3	171.2	21,616.2	201.3	1.8
11/18/2014 16:24	0.1	0.6	11.6	13.3	171.4	21,630.7	184.5	1.7
11/18/2014 16:25	0.1	0.6	11.6	13.3	171.3	21,589.1	165.6	1.5
11/18/2014 16:26	0.1	0.6	11.6	13.3	171.3	21,589.8	163.9	1.5
11/18/2014 16:27	0.1	0.6	11.6	13.3	171.3	21,594.6	163.5	1.4
11/18/2014 16:28	0.1	0.6	11.6	13.3	171.3	21,600.2	164.9	1.5
11/18/2014 16:29	0.1	0.6	11.6	13.3	171.3	21,640.1	165.2	1.5
11/18/2014 16:30	0.1	0.3	11.6	13.3	171.4	21,614.4	170.2	1.5
11/18/2014 16:31	0.1	0.3	11.6	13.3	171.4	21,622.3	182.3	1.6
11/18/2014 16:32	0.1	0.3	11.6	13.3	171.4	21,581.4	192.3	1.7
11/18/2014 16:33	0.1	0.3	11.6	13.3	171.4	21,576.7	207.1	1.9
11/18/2014 16:34	0.1	0.3	11.6	13.3	171.3	21,626.4	215.8	2.0
11/18/2014 16:35	0.1	0.6	11.6	13.3	171.4	21,630.8	207.7	1.9
11/18/2014 16:36	0.1	0.6	11.6	13.3	171.3	21,638.2	191.4	1.7
11/18/2014 16:37	0.1	0.6	11.6	13.3	171.4	21,626.3	169.4	1.5
11/18/2014 16:38	0.1	0.6	11.6	13.4	171.3	21,614.4	163.9	1.4
11/18/2014 16:39	0.1	0.6	11.6	13.3	171.4	21,610.5	164.8	1.5
11/18/2014 16:40	0.1	0.6	11.6	13.3	171.4	21,617.8	163.1	1.4
11/18/2014 16:41	0.1	0.6	11.6	13.3	171.4	21,651.5	169.2	1.5
11/18/2014 16:42	0.1	0.6	11.6	13.3	171.4	21,666.7	171.8	1.5
11/18/2014 16:43	0.1	0.6	11.6	13.3	171.3	21,646.1	178.5	1.6

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 16:44	0.1	0.6	11.6	13.3	171.5	21,650.8	187.5	1.7
11/18/2014 16:45	0.1	0.6	11.6	13.3	171.3	21,623.7	193.8	1.7
11/18/2014 16:46	0.1	0.6	11.6	13.3	171.4	21,628.4	201.9	1.8
11/18/2014 16:47	0.1	0.6	11.6	13.3	171.4	21,641.9	197.8	1.8
11/18/2014 16:48	0.1	0.6	11.6	13.3	171.5	21,674.7	187.5	1.7
11/18/2014 16:49	0.1	0.6	11.6	13.3	171.5	21,677.2	171.2	1.5
11/18/2014 16:50	0.1	0.6	11.6	13.3	171.4	21,655.7	164.2	1.5
11/18/2014 16:51	0.1	0.6	11.6	13.3	171.6	21,634.8	163.8	1.4
11/18/2014 16:52	0.1	0.6	11.6	13.3	171.5	21,646.1	163.2	1.4
11/18/2014 16:53	0.1	0.3	11.6	13.3	171.4	21,648.2	168.6	1.5
11/18/2014 16:54	0.1	0.3	11.6	13.3	171.5	21,639.4	176.5	1.6
11/18/2014 16:55	0.1	0.3	11.6	13.3	171.5	21,632.2	189.2	1.7
11/18/2014 16:56	0.1	0.6	11.6	13.3	171.6	21,646.5	204.1	1.8
11/18/2014 16:57	0.1	0.6	11.6	13.3	171.7	21,652.8	216.7	2.0
11/18/2014 16:58	0.1	0.6	11.6	13.3	171.7	21,646.2	221.9	2.0
11/18/2014 16:59	0.1	0.3	11.6	13.4	171.5	21,630.4	206.5	1.9
11/18/2014 17:00	0.1	0.3	11.6	13.4	171.4	21,623.3	184.0	1.6
11/18/2014 17:01	0.1	0.3	11.6	13.4	171.5	21,644.7	165.3	1.5
11/18/2014 17:02	0.1	0.3	11.6	13.3	171.7	21,596.6	165.1	1.5
11/18/2014 17:03	0.1	0.3	11.6	13.3	171.6	21,595.6	164.6	1.5
11/18/2014 17:04	0.1	0.3	11.6	13.3	171.7	21,676.4	164.2	1.5
11/18/2014 17:05	0.1	0.6	11.6	13.3	171.7	21,636.2	168.7	1.5
11/18/2014 17:06	0.1	0.6	11.6	13.3	171.7	21,606.6	171.8	1.5
11/18/2014 17:07	0.1	0.6	11.6	13.3	171.9	21,596.0	175.2	1.6
11/18/2014 17:08	0.1	0.6	11.6	13.3	171.8	21,606.5	179.5	1.6
11/18/2014 17:09	0.1	0.6	11.6	13.3	171.9	21,578.5	187.3	1.7
11/18/2014 17:10	0.1	0.6	11.6	13.3	172.0	21,670.3	189.0	1.7
11/18/2014 17:11	0.1	0.6	11.6	13.3	171.8	21,659.2	186.8	1.7
11/18/2014 17:12	0.1	0.6	11.6	13.3	171.7	21,615.4	182.6	1.6
11/18/2014 17:13	0.1	0.6	11.6	13.3	171.7	21,602.7	173.8	1.6

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 17:14	0.1	0.6	11.6	13.3	171.6	21,623.6	162.7	1.4
11/18/2014 17:15	0.1	0.6	11.6	13.3	171.7	21,570.7	163.9	1.5
11/18/2014 17:16	0.1	0.6	11.6	13.3	171.6	21,581.3	162.4	1.4
11/18/2014 17:17	0.1	0.3	11.6	13.3	171.7	21,591.6	165.9	1.5
11/18/2014 17:18	0.1	0.3	11.6	13.3	171.5	21,575.6	178.6	1.6
11/18/2014 17:19	0.1	0.3	11.6	13.3	171.6	21,587.0	194.6	1.8
11/18/2014 17:20	0.1	0.3	11.6	13.3	171.6	21,583.5	214.0	2.0
11/18/2014 17:21	0.1	0.3	11.6	13.3	171.7	21,620.4	231.3	2.1
11/18/2014 17:22	0.1	0.3	11.6	13.3	171.6	21,590.9	232.6	2.1
11/18/2014 17:23	0.1	0.6	11.6	13.3	171.7	21,603.7	220.8	2.0
11/18/2014 17:24	0.1	0.6	11.6	13.3	171.9	21,589.9	187.4	1.7
11/18/2014 17:25	0.1	0.6	11.6	13.3	171.8	21,598.8	166.0	1.5
11/18/2014 17:26	0.1	0.6	11.6	13.3	171.9	21,580.3	166.0	1.5
11/18/2014 17:27	0.1	0.6	11.6	13.3	171.9	21,585.0	164.7	1.5
11/18/2014 17:28	0.1	0.6	11.6	13.3	172.0	21,595.9	164.0	1.5
11/18/2014 17:29	0.1	0.6	11.6	13.3	171.9	21,606.2	166.6	1.5
11/18/2014 17:30	0.1	0.6	11.6	13.3	171.8	21,648.9	165.4	1.5
11/18/2014 17:31	0.1	0.6	11.6	13.3	171.9	21,674.7	169.2	1.5
11/18/2014 17:32	0.1	0.6	11.6	13.3	171.9	21,654.8	170.5	1.5
11/18/2014 17:33	0.1	0.6	11.6	13.3	171.9	21,642.9	180.8	1.6
11/18/2014 17:34	0.1	0.6	11.6	13.3	171.9	21,655.7	187.7	1.7
11/18/2014 17:35	0.1	0.6	11.6	13.3	171.8	21,664.6	200.9	1.8
11/18/2014 17:36	0.1	0.6	11.6	13.3	171.9	21,670.8	203.8	1.8
11/18/2014 17:37	0.1	0.6	11.6	13.3	172.0	21,660.5	206.4	1.9
11/18/2014 17:38	0.1	0.6	11.6	13.3	171.9	21,686.3	195.0	1.8
11/18/2014 17:39	0.1	0.6	11.6	13.3	172.1	21,667.1	172.7	1.5
11/18/2014 17:40	0.1	0.6	11.6	13.3	171.9	21,639.9	164.7	1.5
11/18/2014 17:41	0.1	0.3	11.6	13.3	172.0	21,648.7	163.8	1.4
11/18/2014 17:42	0.1	0.6	11.6	13.3	172.1	21,689.5	163.3	1.4
11/18/2014 17:43	0.1	0.6	11.6	13.3	172.0	21,661.5	165.0	1.5

RATA Data Report
CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 17:44	0.1	0.6	11.6	13.3	172.1	21,679.3	173.5	1.5
11/18/2014 17:45	0.1	0.6	11.6	13.3	172.0	21,703.9	185.3	1.7
11/18/2014 17:46	0.1	0.3	11.6	13.3	172.1	21,644.7	201.8	1.8
11/18/2014 17:47	0.1	0.6	11.6	13.3	172.2	21,639.1	216.3	2.0
11/18/2014 17:48	0.1	0.6	11.6	13.3	172.0	21,694.3	223.2	2.0
11/18/2014 17:49	0.1	0.3	11.6	13.3	171.8	21,656.1	217.2	2.0
11/18/2014 17:50	0.1	0.3	11.6	13.3	171.9	21,628.1	196.1	1.8
11/18/2014 17:51	0.1	0.3	11.6	13.3	172.0	21,610.3	167.5	1.5
11/18/2014 17:52	0.1	0.3	11.6	13.3	172.1	21,646.5	166.7	1.5
11/18/2014 17:53	0.1	0.3	11.6	13.3	172.0	21,653.8	165.7	1.5
11/18/2014 17:54	0.1	0.3	11.6	13.3	171.9	21,651.9	164.3	1.5
11/18/2014 17:55	0.1	0.6	11.6	13.3	172.0	21,673.6	165.5	1.5
11/18/2014 17:56	0.1	0.6	11.6	13.3	172.2	21,681.5	171.3	1.5
11/18/2014 17:57	0.1	0.6	11.6	13.3	172.1	21,692.7	175.3	1.6
11/18/2014 17:58	0.1	0.6	11.6	13.3	172.0	21,699.1	180.4	1.6
11/18/2014 17:59	0.1	0.6	11.6	13.3	172.0	21,695.0	189.0	1.7
11/18/2014 18:00	0.1	0.6	11.6	13.3	172.1	21,696.7	196.2	1.8
11/18/2014 18:01	0.1	0.6	11.6	13.3	172.1	21,682.9	197.1	1.8
11/18/2014 18:02	0.1	0.6	11.6	13.3	172.1	21,635.8	195.2	1.8
11/18/2014 18:03	0.1	0.6	11.6	13.3	172.1	21,642.0	185.5	1.7
11/18/2014 18:04	0.1	0.6	11.6	13.3	172.2	21,649.8	168.6	1.5
11/18/2014 18:05	0.1	0.6	11.6	13.3	172.4	21,633.0	165.6	1.5
11/18/2014 18:06	0.1	0.6	11.6	13.3	172.2	21,673.9	164.2	1.4
11/18/2014 18:07	0.1	0.6	11.6	13.3	172.2	21,682.5	163.7	1.4
11/18/2014 18:08	0.1	0.6	11.6	13.3	172.3	21,628.1	165.8	1.5
11/18/2014 18:09	0.1	0.6	11.6	13.3	172.3	21,660.8	173.6	1.5
11/18/2014 18:10	0.1	0.6	11.6	13.3	172.2	21,690.5	185.7	1.7
11/18/2014 18:11	0.1	0.3	11.6	13.3	172.2	21,629.7	200.7	1.8
11/18/2014 18:12	0.1	0.3	11.6	13.3	172.2	21,694.5	215.3	2.0
11/18/2014 18:13	0.1	0.3	11.6	13.3	172.1	21,664.9	221.2	2.0

RATA Data Report

CT1

COLUSA GENERATING STATION

From: 11/18/2014 16:15 **To:** 11/18/2014 18:15 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:39 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT1 CO, Ppmvdc 1 Minute(s)	Unit CT1 CO, LbPerHr 1 Minute(s)	Unit CT1 O2, Dry, Pct 1 Minute(s)	Unit CT1 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT1 Load, MWe 1 Minute(s)	Unit CT1 GasFlow, Total, 1000scfh 1 Minute(s)	Unit CT1 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT1 NH3Slip, Ppmvdc 1 Minute(s)
11/18/2014 18:14	0.1	0.3	11.6	13.3	172.1	21,653.9	216.1	2.0
11/18/2014 18:15	0.1	0.3	11.6	13.3	172.1	21,650.8	196.6	1.8
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.1	0.5	11.6	13.3	171.7	21,635.8	182.8	1.6

RATA Data Report

CT2

R1 comb min

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 07:53	13.9	1.1	0.9	0.003	3.8	9.5	11.4	13.8
11/19/2014 07:54	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 07:55	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 07:56	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 07:57	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 07:58	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 07:59	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:00	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:01	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:02	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:03	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:04	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:05	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:06	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:07	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:08	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:09	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:10	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:11	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:12	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:13	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:14	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:15	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:16	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:17	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:18	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:19	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:20	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:21	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8

RATA Data Report

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 08:22	13.8	1.0	0.8	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:23	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:24	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:25	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:26	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:27	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:28	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:29	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:30	13.9	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:31	13.9	1.0	0.8	0.003	3.8	9.3	11.2	13.8
11/19/2014 08:32	13.9	1.0	0.8	0.003	3.8	9.3	11.2	13.8
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8

RATA Data Report

CT2

R1 comp min

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 07:53	13.9	-0.5	0.0	-1.2	1,262.6	104.1	2,470,050.3	1.0
11/19/2014 07:54	13.9	-0.5	0.0	-1.2	1,263.2	104.2	2,471,224.1	1.0
11/19/2014 07:55	13.9	-0.5	0.0	-1.2	1,262.9	104.2	2,470,637.2	1.0
11/19/2014 07:56	13.9	-0.5	0.0	-1.2	1,262.2	104.1	2,469,267.8	1.0
11/19/2014 07:57	13.9	-0.5	0.0	-1.2	1,264.9	104.3	2,474,549.9	1.0
11/19/2014 07:58	13.9	-0.5	0.0	-1.2	1,267.5	104.7	2,479,636.3	1.0
11/19/2014 07:59	13.8	-0.5	0.0	-1.2	1,268.5	104.9	2,446,640.6	1.0
11/19/2014 08:00	13.8	-0.5	0.0	-1.2	1,269.2	105.0	2,447,990.7	1.0
11/19/2014 08:01	13.8	-0.5	0.0	-1.2	1,267.5	105.0	2,444,711.8	1.0
11/19/2014 08:02	13.8	-0.5	0.0	-1.2	1,268.5	104.9	2,446,640.6	1.0
11/19/2014 08:03	13.8	-0.5	0.0	-1.2	1,268.2	104.9	2,446,062.0	1.0
11/19/2014 08:04	13.8	-0.5	0.0	-1.2	1,267.9	104.8	2,445,483.3	1.0
11/19/2014 08:05	13.8	-0.5	0.0	-1.2	1,268.5	104.8	2,446,640.6	1.0
11/19/2014 08:06	13.8	-0.5	0.0	-1.2	1,268.8	105.2	2,447,219.2	1.0
11/19/2014 08:07	13.8	-0.5	0.0	-1.2	1,270.5	105.2	2,450,498.1	1.0
11/19/2014 08:08	13.8	-0.5	0.0	-1.2	1,269.8	105.2	2,449,148.0	1.0
11/19/2014 08:09	13.8	-0.5	0.0	-1.2	1,271.2	105.2	2,451,848.3	1.0
11/19/2014 08:10	13.8	-0.5	0.0	-1.2	1,269.5	105.2	2,448,569.4	1.0
11/19/2014 08:11	13.8	-0.5	0.0	-1.2	1,270.8	105.3	2,451,076.8	1.0
11/19/2014 08:12	13.8	-0.5	0.0	-1.2	1,270.2	105.1	2,449,919.5	1.0
11/19/2014 08:13	13.8	-0.5	0.0	-1.2	1,271.5	105.2	2,452,426.9	1.0
11/19/2014 08:14	13.8	-0.5	0.0	-1.2	1,270.8	105.4	2,451,076.8	1.0
11/19/2014 08:15	13.8	-0.5	0.0	-1.2	1,272.5	105.4	2,454,355.7	1.0
11/19/2014 08:16	13.8	-0.5	0.0	-1.2	1,271.5	105.4	2,452,426.9	1.0
11/19/2014 08:17	13.8	-0.5	0.0	-1.2	1,271.5	105.3	2,452,426.9	1.0
11/19/2014 08:18	13.8	-0.5	0.0	-1.2	1,272.2	105.5	2,453,777.0	1.0
11/19/2014 08:19	13.8	-0.5	0.0	-1.2	1,275.5	106.3	2,460,142.0	1.0
11/19/2014 08:20	13.8	-0.5	0.0	-1.2	1,278.8	106.4	2,466,506.9	1.0
11/19/2014 08:21	13.8	-0.5	0.0	-1.2	1,277.5	106.4	2,463,999.5	1.0

RATA Data Report

CT2

R1 min comp

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 08:22	13.8	-0.5	0.0	-1.2	1,278.1	106.4	2,465,156.8	1.0
11/19/2014 08:23	13.8	-0.5	0.0	-1.2	1,277.8	106.4	2,464,578.1	1.0
11/19/2014 08:24	13.8	-0.5	0.0	-1.2	1,277.8	106.4	2,464,578.1	1.0
11/19/2014 08:25	13.8	-0.5	0.0	-1.2	1,277.8	106.7	2,464,578.1	1.0
11/19/2014 08:26	13.8	-0.5	0.0	-1.2	1,270.5	104.9	2,450,498.1	1.0
11/19/2014 08:27	13.8	-0.5	0.0	-1.2	1,265.9	104.5	2,441,625.8	1.0
11/19/2014 08:28	13.8	-0.5	0.0	-1.2	1,264.2	104.0	2,438,346.9	1.0
11/19/2014 08:29	13.8	-0.5	0.0	-1.2	1,263.2	104.0	2,436,418.1	1.0
11/19/2014 08:30	13.9	-0.5	0.0	-1.2	1,262.6	104.0	2,470,050.3	1.0
11/19/2014 08:31	13.9	-0.5	0.0	-1.2	1,263.9	104.1	2,472,593.5	1.0
11/19/2014 08:32	13.9	-0.5	0.0	-1.2	1,268.8	104.8	2,482,179.5	1.0
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.8	-0.5	0.0	-1.2	1,269.6	105.1	2,456,638.9	1.0

RATA Data Report 2

CT2

R1 min comp

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 07:53	0.0	-1.2	13.9	13.8	104.1	12,195.2	86.6	1.0
11/19/2014 07:54	0.0	-1.2	13.9	13.8	104.2	12,201.6	86.6	1.0
11/19/2014 07:55	0.0	-1.2	13.9	13.8	104.2	12,198.4	86.8	1.0
11/19/2014 07:56	0.0	-1.2	13.9	13.8	104.1	12,192.0	87.0	1.0
11/19/2014 07:57	0.0	-1.2	13.9	13.8	104.3	12,217.6	86.6	1.0
11/19/2014 07:58	0.0	-1.2	13.9	13.8	104.7	12,243.2	86.7	1.0
11/19/2014 07:59	0.0	-1.2	13.8	13.8	104.9	12,252.8	86.8	1.0
11/19/2014 08:00	0.0	-1.2	13.8	13.8	105.0	12,259.2	87.0	1.0
11/19/2014 08:01	0.0	-1.2	13.8	13.8	105.0	12,243.2	87.1	1.0
11/19/2014 08:02	0.0	-1.2	13.8	13.8	104.9	12,252.8	86.9	1.0
11/19/2014 08:03	0.0	-1.2	13.8	13.8	104.9	12,249.6	87.0	1.0
11/19/2014 08:04	0.0	-1.2	13.8	13.8	104.8	12,246.4	86.8	1.0
11/19/2014 08:05	0.0	-1.2	13.8	13.8	104.8	12,252.8	86.7	1.0
11/19/2014 08:06	0.0	-1.2	13.8	13.8	105.2	12,256.0	86.9	1.0
11/19/2014 08:07	0.0	-1.2	13.8	13.8	105.2	12,272.0	87.1	1.0
11/19/2014 08:08	0.0	-1.2	13.8	13.8	105.2	12,265.6	86.8	1.0
11/19/2014 08:09	0.0	-1.2	13.8	13.8	105.2	12,278.4	87.0	1.0
11/19/2014 08:10	0.0	-1.2	13.8	13.8	105.2	12,262.4	87.1	1.0
11/19/2014 08:11	0.0	-1.2	13.8	13.8	105.3	12,275.2	87.1	1.0
11/19/2014 08:12	0.0	-1.2	13.8	13.8	105.1	12,268.8	87.5	1.0
11/19/2014 08:13	0.0	-1.2	13.8	13.8	105.2	12,281.6	87.0	1.0
11/19/2014 08:14	0.0	-1.2	13.8	13.8	105.4	12,275.2	86.9	1.0
11/19/2014 08:15	0.0	-1.2	13.8	13.8	105.4	12,291.2	86.8	1.0
11/19/2014 08:16	0.0	-1.2	13.8	13.8	105.4	12,281.6	87.0	1.0
11/19/2014 08:17	0.0	-1.2	13.8	13.8	105.3	12,281.6	87.0	1.0
11/19/2014 08:18	0.0	-1.2	13.8	13.8	105.5	12,288.0	86.7	1.0
11/19/2014 08:19	0.0	-1.2	13.8	13.8	106.3	12,320.0	87.3	1.0
11/19/2014 08:20	0.0	-1.2	13.8	13.8	106.4	12,352.0	87.2	1.0
11/19/2014 08:21	0.0	-1.2	13.8	13.8	106.4	12,339.2	87.0	1.0

RATA Data Report 2

CT2

Run 1 min comp

COLUSA GENERATING STATION

From: 11/19/2014 07:53 **To:** 11/19/2014 08:32 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 08:22	0.0	-1.2	13.8	13.8	106.4	12,345.6	87.2	1.0
11/19/2014 08:23	0.0	-1.2	13.8	13.8	106.4	12,342.4	87.2	1.0
11/19/2014 08:24	0.0	-1.2	13.8	13.8	106.4	12,342.4	87.1	1.0
11/19/2014 08:25	0.0	-1.2	13.8	13.8	106.7	12,342.4	87.1	1.0
11/19/2014 08:26	0.0	-1.2	13.8	13.8	104.9	12,272.0	87.1	1.0
11/19/2014 08:27	0.0	-1.2	13.8	13.8	104.5	12,227.2	86.9	1.0
11/19/2014 08:28	0.0	-1.2	13.8	13.8	104.0	12,211.2	87.0	1.0
11/19/2014 08:29	0.0	-1.2	13.8	13.8	104.0	12,201.6	86.8	1.0
11/19/2014 08:30	0.0	-1.2	13.9	13.8	104.0	12,195.2	86.8	1.0
11/19/2014 08:31	0.0	-1.2	13.9	13.8	104.1	12,208.0	86.5	1.0
11/19/2014 08:32	0.0	-1.2	13.9	13.8	104.8	12,256.0	86.8	1.0
Valid Data Points	40	40	40	40	40	40	40	40
Average:	0.0	-1.2	13.8	13.8	105.1	12,263.4	86.9	1.0

RATA Data Report

CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 08:43	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:44	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:45	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:46	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:47	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:48	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 08:49	13.9	1.0	0.8	0.003	3.8	9.6	11.6	13.8
11/19/2014 08:50	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:51	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:52	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:53	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:54	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:55	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:56	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 08:57	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:58	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 08:59	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:00	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:01	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:02	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:03	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:04	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:05	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:06	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:07	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:08	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:09	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:10	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:11	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8

RATA Data Report
CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 09:12	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:13	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:14	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:15	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:16	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:17	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:18	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:19	13.8	1.1	0.9	0.003	3.8	9.4	11.5	13.7
11/19/2014 09:20	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8

RATA Data Report

CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 08:43	13.8	-0.5	0.0	-1.2	1,266.2	104.5	2,442,204.4	1.0
11/19/2014 08:44	13.8	-0.5	0.0	-1.2	1,267.5	104.6	2,444,711.8	1.0
11/19/2014 08:45	13.8	-0.5	0.0	-1.2	1,267.2	104.5	2,444,133.2	1.0
11/19/2014 08:46	13.8	-0.5	0.0	-1.2	1,266.9	104.5	2,443,554.6	1.0
11/19/2014 08:47	13.8	-0.5	0.0	-1.2	1,267.9	104.5	2,445,483.3	1.0
11/19/2014 08:48	13.8	-0.5	0.0	-1.2	1,272.8	105.6	2,454,934.3	1.0
11/19/2014 08:49	13.9	-0.5	0.0	-1.2	1,271.8	105.3	2,488,048.5	1.0
11/19/2014 08:50	13.8	-0.5	0.0	-1.2	1,273.2	105.4	2,455,705.8	1.0
11/19/2014 08:51	13.8	-0.5	0.0	-1.2	1,272.5	105.3	2,454,355.7	1.0
11/19/2014 08:52	13.8	-0.5	0.0	-1.2	1,272.2	105.3	2,453,777.0	1.0
11/19/2014 08:53	13.8	-0.5	0.0	-1.2	1,272.2	105.2	2,453,777.0	1.0
11/19/2014 08:54	13.8	-0.5	0.0	-1.2	1,271.2	105.3	2,451,848.3	1.0
11/19/2014 08:55	13.8	-0.5	0.0	-1.2	1,271.8	105.2	2,453,005.5	1.0
11/19/2014 08:56	13.8	-0.5	0.0	-1.2	1,268.5	104.9	2,446,640.6	1.0
11/19/2014 08:57	13.8	-0.5	0.0	-1.2	1,270.8	105.2	2,451,076.8	1.0
11/19/2014 08:58	13.8	-0.5	0.0	-1.2	1,272.8	105.4	2,454,934.3	1.0
11/19/2014 08:59	13.8	-0.5	0.0	-1.2	1,272.8	105.4	2,454,934.3	1.0
11/19/2014 09:00	13.8	-0.5	0.0	-1.2	1,274.8	105.9	2,458,791.8	1.0
11/19/2014 09:01	13.8	-0.5	0.0	-1.2	1,276.1	106.0	2,461,299.2	1.0
11/19/2014 09:02	13.8	-0.5	0.0	-1.2	1,274.1	105.7	2,457,441.7	1.0
11/19/2014 09:03	13.8	-0.5	0.0	-1.2	1,274.8	105.7	2,458,791.8	1.0
11/19/2014 09:04	13.8	-0.5	0.0	-1.2	1,274.1	105.7	2,457,441.7	1.0
11/19/2014 09:05	13.8	-0.5	0.0	-1.2	1,273.8	105.7	2,456,863.1	1.0
11/19/2014 09:06	13.8	-0.5	0.0	-1.2	1,273.5	105.7	2,456,284.4	1.0
11/19/2014 09:07	13.8	-0.5	0.0	-1.2	1,273.8	105.6	2,456,863.1	1.0
11/19/2014 09:08	13.8	-0.5	0.0	-1.2	1,271.2	105.1	2,451,848.3	1.0
11/19/2014 09:09	13.8	-0.5	0.0	-1.2	1,270.8	105.2	2,451,076.8	1.0
11/19/2014 09:10	13.8	-0.5	0.0	-1.2	1,269.8	105.1	2,449,148.0	1.0
11/19/2014 09:11	13.8	-0.5	0.0	-1.2	1,271.5	105.1	2,452,426.9	1.0

RATA Data Report

CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:12	13.8	-0.5	0.0	-1.2	1,271.5	105.1	2,452,426.9	1.0
11/19/2014 09:13	13.8	-0.5	0.0	-1.2	1,274.8	105.6	2,458,791.8	1.0
11/19/2014 09:14	13.8	-0.5	0.0	-1.2	1,274.8	105.8	2,458,791.8	1.0
11/19/2014 09:15	13.8	-0.5	0.0	-1.2	1,274.8	105.9	2,458,791.8	1.0
11/19/2014 09:16	13.8	-0.5	0.0	-1.2	1,278.5	106.2	2,465,928.3	1.0
11/19/2014 09:17	13.8	-0.5	0.0	-1.2	1,281.4	106.8	2,471,521.7	1.0
11/19/2014 09:18	13.8	-0.5	0.0	-1.2	1,273.8	105.5	2,456,863.1	1.0
11/19/2014 09:19	13.8	-0.5	0.0	-1.2	1,271.8	105.3	2,453,005.5	1.0
11/19/2014 09:20	13.8	-0.5	0.0	-1.2	1,270.8	105.2	2,451,076.8	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	-0.5	0.0	-1.2	1,272.3	105.4	2,454,963.2	1.0

RATA Data Report 2

CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 08:43	0.0	-1.2	13.8	13.8	104.5	12,230.4	86.4	1.0
11/19/2014 08:44	0.0	-1.2	13.8	13.8	104.6	12,243.2	86.3	1.0
11/19/2014 08:45	0.0	-1.2	13.8	13.8	104.5	12,240.0	86.4	1.0
11/19/2014 08:46	0.0	-1.2	13.8	13.8	104.5	12,236.8	86.6	1.0
11/19/2014 08:47	0.0	-1.2	13.8	13.8	104.5	12,246.4	86.7	1.0
11/19/2014 08:48	0.0	-1.2	13.8	13.8	105.6	12,294.4	87.0	1.0
11/19/2014 08:49	0.0	-1.2	13.9	13.8	105.3	12,284.8	86.7	1.0
11/19/2014 08:50	0.0	-1.2	13.8	13.8	105.4	12,297.6	86.6	1.0
11/19/2014 08:51	0.0	-1.2	13.8	13.8	105.3	12,291.2	87.0	1.0
11/19/2014 08:52	0.0	-1.2	13.8	13.8	105.3	12,288.0	86.8	1.0
11/19/2014 08:53	0.0	-1.2	13.8	13.8	105.2	12,288.0	86.8	1.0
11/19/2014 08:54	0.0	-1.2	13.8	13.8	105.3	12,278.4	86.8	1.0
11/19/2014 08:55	0.0	-1.2	13.8	13.8	105.2	12,284.8	86.9	1.0
11/19/2014 08:56	0.0	-1.2	13.8	13.8	104.9	12,252.8	86.8	1.0
11/19/2014 08:57	0.0	-1.2	13.8	13.8	105.2	12,275.2	86.5	1.0
11/19/2014 08:58	0.0	-1.2	13.8	13.8	105.4	12,294.4	86.6	1.0
11/19/2014 08:59	0.0	-1.2	13.8	13.8	105.4	12,294.4	86.6	1.0
11/19/2014 09:00	0.0	-1.2	13.8	13.8	105.9	12,313.6	86.6	1.0
11/19/2014 09:01	0.0	-1.2	13.8	13.8	106.0	12,326.4	86.7	1.0
11/19/2014 09:02	0.0	-1.2	13.8	13.8	105.7	12,307.2	87.0	1.0
11/19/2014 09:03	0.0	-1.2	13.8	13.8	105.7	12,313.6	86.8	1.0
11/19/2014 09:04	0.0	-1.2	13.8	13.8	105.7	12,307.2	87.1	1.0
11/19/2014 09:05	0.0	-1.2	13.8	13.8	105.7	12,304.0	86.6	1.0
11/19/2014 09:06	0.0	-1.2	13.8	13.8	105.7	12,300.8	86.5	1.0
11/19/2014 09:07	0.0	-1.2	13.8	13.8	105.6	12,304.0	86.8	1.0
11/19/2014 09:08	0.0	-1.2	13.8	13.8	105.1	12,278.4	86.9	1.0
11/19/2014 09:09	0.0	-1.2	13.8	13.8	105.2	12,275.2	86.5	1.0
11/19/2014 09:10	0.0	-1.2	13.8	13.8	105.1	12,265.6	86.8	1.0
11/19/2014 09:11	0.0	-1.2	13.8	13.8	105.1	12,281.6	86.5	1.0

RATA Data Report 2

CT2

R2 min comp

COLUSA GENERATING STATION

From: 11/19/2014 08:43 **To:** 11/19/2014 09:20 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:12	0.0	-1.2	13.8	13.8	105.1	12,281.6	86.8	1.0
11/19/2014 09:13	0.0	-1.2	13.8	13.8	105.6	12,313.6	86.5	1.0
11/19/2014 09:14	0.0	-1.2	13.8	13.8	105.8	12,313.6	86.6	1.0
11/19/2014 09:15	0.0	-1.2	13.8	13.8	105.9	12,313.6	86.6	1.0
11/19/2014 09:16	0.0	-1.2	13.8	13.8	106.2	12,348.8	86.6	1.0
11/19/2014 09:17	0.0	-1.2	13.8	13.8	106.8	12,377.6	87.1	1.0
11/19/2014 09:18	0.0	-1.2	13.8	13.8	105.5	12,304.0	86.4	1.0
11/19/2014 09:19	0.0	-1.2	13.8	13.7	105.3	12,284.8	87.0	1.0
11/19/2014 09:20	0.0	-1.2	13.8	13.8	105.2	12,275.2	86.5	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.2	13.8	13.8	105.4	12,289.8	86.7	1.0

RATA Data Report

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 09:30	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:31	13.8	1.0	0.8	0.003	3.8	9.4	11.5	13.7
11/19/2014 09:32	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:33	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:34	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:35	13.8	1.1	0.9	0.003	3.8	9.6	11.6	13.8
11/19/2014 09:36	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:37	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:38	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:39	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:40	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:41	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:42	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:43	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 09:44	13.8	1.0	0.8	0.003	3.8	9.3	11.2	13.8
11/19/2014 09:45	13.8	1.0	0.8	0.003	3.8	9.3	11.2	13.8
11/19/2014 09:46	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8
11/19/2014 09:47	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:48	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:49	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:50	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:51	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 09:52	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:53	13.8	1.0	0.8	0.003	3.8	9.4	11.5	13.7
11/19/2014 09:54	13.8	1.1	0.9	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:55	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 09:56	13.8	1.0	0.8	0.003	3.8	9.3	11.2	13.8
11/19/2014 09:57	13.8	1.0	0.8	0.003	3.8	9.3	11.2	13.8
11/19/2014 09:58	13.8	1.0	0.8	0.003	3.8	9.4	11.3	13.8

RATA Data Report

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 09:59	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 10:00	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 10:01	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 10:02	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 10:03	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8
11/19/2014 10:04	13.8	1.0	0.8	0.003	3.8	9.6	11.5	13.8
11/19/2014 10:05	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 10:06	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
11/19/2014 10:07	13.8	1.1	0.9	0.003	3.8	9.6	11.5	13.8
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	1.0	0.8	0.003	3.8	9.5	11.4	13.8

RATA Data Report

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:30	13.8	-0.5	0.0	-1.2	1,278.1	106.2	2,465,156.8	1.0
11/19/2014 09:31	13.8	-0.5	0.0	-1.2	1,278.1	106.3	2,465,156.8	1.0
11/19/2014 09:32	13.8	-0.5	0.0	-1.2	1,278.8	106.3	2,466,506.9	1.0
11/19/2014 09:33	13.8	-0.5	0.0	-1.2	1,278.8	106.2	2,466,506.9	1.0
11/19/2014 09:34	13.8	-0.5	0.0	-1.2	1,275.5	105.9	2,460,142.0	1.0
11/19/2014 09:35	13.8	-0.5	0.0	-1.2	1,275.8	106.0	2,460,720.6	1.0
11/19/2014 09:36	13.8	-0.5	0.0	-1.2	1,276.1	105.9	2,461,299.2	1.0
11/19/2014 09:37	13.8	-0.5	0.0	-1.2	1,275.1	105.7	2,459,370.5	1.0
11/19/2014 09:38	13.8	-0.5	0.0	-1.2	1,273.5	105.5	2,456,284.4	1.0
11/19/2014 09:39	13.8	-0.5	0.0	-1.2	1,272.8	105.2	2,454,934.3	1.0
11/19/2014 09:40	13.8	-0.5	0.0	-1.2	1,267.5	104.6	2,444,711.8	1.0
11/19/2014 09:41	13.8	-0.5	0.0	-1.2	1,267.2	104.3	2,444,133.2	1.0
11/19/2014 09:42	13.8	-0.5	0.0	-1.2	1,266.5	104.2	2,442,783.1	1.0
11/19/2014 09:43	13.8	-0.5	0.0	-1.2	1,264.9	104.1	2,439,697.0	1.0
11/19/2014 09:44	13.8	-0.5	0.0	-1.2	1,266.2	104.4	2,442,204.4	1.0
11/19/2014 09:45	13.8	-0.5	0.0	-1.2	1,276.8	106.3	2,462,649.4	1.0
11/19/2014 09:46	13.8	-0.5	0.0	-1.2	1,277.5	106.2	2,463,999.5	1.0
11/19/2014 09:47	13.8	-0.5	0.0	-1.2	1,278.1	106.2	2,465,156.8	1.0
11/19/2014 09:48	13.8	-0.5	0.0	-1.2	1,277.1	106.1	2,463,228.0	1.0
11/19/2014 09:49	13.8	-0.5	0.0	-1.2	1,278.1	106.3	2,465,156.8	1.0
11/19/2014 09:50	13.8	-0.5	0.0	-1.2	1,278.1	106.3	2,465,156.8	1.0
11/19/2014 09:51	13.8	-0.5	0.0	-1.2	1,280.4	106.5	2,469,592.9	1.0
11/19/2014 09:52	13.8	-0.5	0.0	-1.2	1,279.8	106.3	2,468,435.7	1.0
11/19/2014 09:53	13.8	-0.5	0.0	-1.2	1,267.9	104.7	2,445,483.3	1.0
11/19/2014 09:54	13.8	-0.5	0.0	-1.2	1,266.2	104.2	2,442,204.4	1.0
11/19/2014 09:55	13.8	-0.5	0.0	-1.2	1,264.9	104.0	2,439,697.0	1.0
11/19/2014 09:56	13.8	-0.5	0.0	-1.2	1,273.8	105.5	2,456,863.1	1.0
11/19/2014 09:57	13.8	-0.5	0.0	-1.2	1,273.8	105.7	2,456,863.1	1.0
11/19/2014 09:58	13.8	-0.5	0.0	-1.2	1,276.1	106.0	2,461,299.2	1.0

RATA Data Report

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:59	13.8	-0.5	0.0	-1.2	1,275.8	105.9	2,460,720.6	1.0
11/19/2014 10:00	13.8	-0.5	0.0	-1.2	1,280.8	106.5	2,470,364.4	1.0
11/19/2014 10:01	13.8	-0.5	0.0	-1.2	1,279.8	106.5	2,468,435.7	1.0
11/19/2014 10:02	13.8	-0.5	0.0	-1.2	1,281.4	106.6	2,471,521.7	1.0
11/19/2014 10:03	13.8	-0.5	0.0	-1.2	1,279.8	106.6	2,468,435.7	1.0
11/19/2014 10:04	13.8	-0.5	0.0	-1.2	1,280.8	106.7	2,470,364.4	1.0
11/19/2014 10:05	13.8	-0.5	0.0	-1.2	1,281.1	106.7	2,470,943.1	1.0
11/19/2014 10:06	13.8	-0.5	0.0	-1.2	1,280.8	106.6	2,470,364.4	1.0
11/19/2014 10:07	13.8	-0.5	0.0	-1.2	1,281.1	106.6	2,470,943.1	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	-0.5	0.0	-1.2	1,275.4	105.8	2,459,933.9	1.0

RATA Data Report 2

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:30	0.0	-1.2	13.8	13.8	106.2	12,345.6	86.5	1.0
11/19/2014 09:31	0.0	-1.2	13.8	13.7	106.3	12,345.6	86.5	1.0
11/19/2014 09:32	0.0	-1.2	13.8	13.8	106.3	12,352.0	86.8	1.0
11/19/2014 09:33	0.0	-1.2	13.8	13.8	106.2	12,352.0	87.0	1.0
11/19/2014 09:34	0.0	-1.2	13.8	13.8	105.9	12,320.0	86.7	1.0
11/19/2014 09:35	0.0	-1.2	13.8	13.8	106.0	12,323.2	86.8	1.0
11/19/2014 09:36	0.0	-1.2	13.8	13.8	105.9	12,326.4	86.9	1.0
11/19/2014 09:37	0.0	-1.2	13.8	13.8	105.7	12,316.8	86.9	1.0
11/19/2014 09:38	0.0	-1.2	13.8	13.8	105.5	12,300.8	86.5	1.0
11/19/2014 09:39	0.0	-1.2	13.8	13.8	105.2	12,294.4	86.9	1.0
11/19/2014 09:40	0.0	-1.2	13.8	13.8	104.6	12,243.2	86.6	1.0
11/19/2014 09:41	0.0	-1.2	13.8	13.8	104.3	12,240.0	86.3	1.0
11/19/2014 09:42	0.0	-1.2	13.8	13.8	104.2	12,233.6	86.3	1.0
11/19/2014 09:43	0.0	-1.2	13.8	13.8	104.1	12,217.6	86.3	1.0
11/19/2014 09:44	0.0	-1.2	13.8	13.8	104.4	12,230.4	86.4	1.0
11/19/2014 09:45	0.0	-1.2	13.8	13.8	106.3	12,332.8	86.8	1.0
11/19/2014 09:46	0.0	-1.2	13.8	13.8	106.2	12,339.2	86.3	1.0
11/19/2014 09:47	0.0	-1.2	13.8	13.8	106.2	12,345.6	86.5	1.0
11/19/2014 09:48	0.0	-1.2	13.8	13.8	106.1	12,336.0	87.0	1.0
11/19/2014 09:49	0.0	-1.2	13.8	13.8	106.3	12,345.6	87.1	1.0
11/19/2014 09:50	0.0	-1.2	13.8	13.8	106.3	12,345.6	86.7	1.0
11/19/2014 09:51	0.0	-1.2	13.8	13.8	106.5	12,368.0	87.0	1.0
11/19/2014 09:52	0.0	-1.2	13.8	13.8	106.3	12,361.6	86.8	1.0
11/19/2014 09:53	0.0	-1.2	13.8	13.7	104.7	12,246.4	86.8	1.0
11/19/2014 09:54	0.0	-1.2	13.8	13.8	104.2	12,230.4	86.8	1.0
11/19/2014 09:55	0.0	-1.2	13.8	13.8	104.0	12,217.6	86.8	1.0
11/19/2014 09:56	0.0	-1.2	13.8	13.8	105.5	12,304.0	86.2	1.0
11/19/2014 09:57	0.0	-1.2	13.8	13.8	105.7	12,304.0	86.4	1.0
11/19/2014 09:58	0.0	-1.2	13.8	13.8	106.0	12,326.4	86.6	1.0

RATA Data Report 2

CT2

R3 min comp

COLUSA GENERATING STATION

From: 11/19/2014 09:30 **To:** 11/19/2014 10:07 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:57 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 09:59	0.0	-1.2	13.8	13.8	105.9	12,323.2	86.9	1.0
11/19/2014 10:00	0.0	-1.2	13.8	13.8	106.5	12,371.2	86.5	1.0
11/19/2014 10:01	0.0	-1.2	13.8	13.8	106.5	12,361.6	86.9	1.0
11/19/2014 10:02	0.0	-1.2	13.8	13.8	106.6	12,377.6	86.8	1.0
11/19/2014 10:03	0.0	-1.2	13.8	13.8	106.6	12,361.6	86.7	1.0
11/19/2014 10:04	0.0	-1.2	13.8	13.8	106.7	12,371.2	86.8	1.0
11/19/2014 10:05	0.0	-1.2	13.8	13.8	106.7	12,374.4	86.0	1.0
11/19/2014 10:06	0.0	-1.2	13.8	13.8	106.6	12,371.2	87.1	1.0
11/19/2014 10:07	0.0	-1.2	13.8	13.8	106.6	12,374.4	87.0	1.0
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.2	13.8	13.8	105.8	12,319.2	86.7	1.0

RATA Data Report

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 10:26	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 10:27	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 10:28	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 10:29	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 10:30	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 10:31	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 10:32	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 10:33	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 10:34	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:35	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:36	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:37	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:38	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:39	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:40	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:41	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:42	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:43	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:44	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:45	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:46	13.8	1.3	1.1	0.004	6.1	9.2	11.2	13.7
11/19/2014 10:47	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:48	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:49	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:50	13.8	1.3	1.1	0.004	6.2	9.3	11.3	13.7
11/19/2014 10:51	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:52	13.8	1.3	1.1	0.004	6.1	9.2	11.2	13.7
11/19/2014 10:53	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:54	13.8	1.3	1.1	0.004	6.1	9.2	11.2	13.7

RATA Data Report

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 10:55	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:56	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:57	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:58	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 10:59	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 11:00	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:01	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:02	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:03	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7

RATA Data Report

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 10:26	13.8	-0.5	0.0	-1.4	1,541.8	140.9	2,973,772.6	0.9
11/19/2014 10:27	13.8	-0.5	0.0	-1.4	1,538.9	140.1	2,968,179.1	0.9
11/19/2014 10:28	13.8	-0.5	0.0	-1.4	1,531.6	139.8	2,954,099.1	0.9
11/19/2014 10:29	13.8	-0.5	0.0	-1.4	1,531.9	139.7	2,954,677.8	0.9
11/19/2014 10:30	13.8	-0.5	0.0	-1.4	1,530.6	139.8	2,952,170.4	0.9
11/19/2014 10:31	13.8	-0.5	0.0	-1.4	1,528.9	139.9	2,948,891.5	0.9
11/19/2014 10:32	13.8	-0.5	0.0	-1.4	1,531.6	139.7	2,954,099.1	0.9
11/19/2014 10:33	13.8	-0.5	0.0	-1.4	1,539.2	140.4	2,968,757.8	0.9
11/19/2014 10:34	13.8	-0.5	0.0	-1.4	1,540.5	140.9	2,971,265.2	0.9
11/19/2014 10:35	13.8	-0.5	0.0	-1.4	1,542.2	140.9	2,974,544.1	0.9
11/19/2014 10:36	13.8	-0.5	0.0	-1.4	1,542.8	141.0	2,975,701.3	0.9
11/19/2014 10:37	13.8	-0.5	0.0	-1.4	1,543.8	141.1	2,977,630.1	0.9
11/19/2014 10:38	13.8	-0.5	0.0	-1.4	1,543.5	141.2	2,977,051.5	0.9
11/19/2014 10:39	13.8	-0.5	0.0	-1.4	1,545.1	141.1	2,980,137.5	0.9
11/19/2014 10:40	13.8	-0.5	0.0	-1.4	1,546.1	141.0	2,982,066.3	0.9
11/19/2014 10:41	13.8	-0.5	0.0	-1.4	1,539.2	140.8	2,968,757.8	0.9
11/19/2014 10:42	13.8	-0.5	0.0	-1.4	1,540.5	140.6	2,971,265.2	0.9
11/19/2014 10:43	13.8	-0.5	0.0	-1.4	1,539.2	140.6	2,968,757.8	0.9
11/19/2014 10:44	13.8	-0.5	0.0	-1.4	1,538.9	140.5	2,968,179.1	0.9
11/19/2014 10:45	13.8	-0.5	0.0	-1.4	1,540.5	140.4	2,971,265.2	0.9
11/19/2014 10:46	13.8	-0.5	0.0	-1.4	1,536.9	140.6	2,964,321.6	0.9
11/19/2014 10:47	13.8	-0.5	0.0	-1.4	1,539.8	140.7	2,969,915.0	0.9
11/19/2014 10:48	13.8	-0.5	0.0	-1.4	1,538.5	140.6	2,967,407.6	0.9
11/19/2014 10:49	13.8	-0.5	0.0	-1.4	1,540.5	140.8	2,971,265.2	0.9
11/19/2014 10:50	13.8	-0.5	0.0	-1.4	1,538.5	140.6	2,967,407.6	0.9
11/19/2014 10:51	13.8	-0.5	0.0	-1.4	1,538.9	140.7	2,968,179.1	0.9
11/19/2014 10:52	13.8	-0.5	0.0	-1.4	1,536.9	140.6	2,964,321.6	0.9
11/19/2014 10:53	13.8	-0.5	0.0	-1.4	1,538.5	140.6	2,967,407.6	0.9
11/19/2014 10:54	13.8	-0.5	0.0	-1.4	1,537.2	140.7	2,964,900.2	0.9

RATA Data Report

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 10:55	13.8	-0.5	0.0	-1.4	1,538.5	140.6	2,967,407.6	0.9
11/19/2014 10:56	13.8	-0.5	0.0	-1.4	1,541.5	140.6	2,973,193.9	0.9
11/19/2014 10:57	13.8	-0.5	0.0	-1.4	1,538.2	140.6	2,966,829.0	0.9
11/19/2014 10:58	13.8	-0.5	0.0	-1.4	1,539.5	140.4	2,969,336.4	0.9
11/19/2014 10:59	13.8	-0.5	0.0	-1.4	1,537.5	140.3	2,965,478.9	0.9
11/19/2014 11:00	13.8	-0.5	0.0	-1.4	1,535.9	140.1	2,962,392.8	0.9
11/19/2014 11:01	13.8	-0.5	0.0	-1.4	1,533.9	140.0	2,958,535.3	0.9
11/19/2014 11:02	13.8	-0.5	0.0	-1.4	1,531.9	139.9	2,954,677.8	0.9
11/19/2014 11:03	13.8	-0.5	0.0	-1.4	1,534.9	139.9	2,960,464.1	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	-0.5	0.0	-1.4	1,538.3	140.5	2,966,966.0	0.9

RATA Data Report 2

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 10:26	0.0	-1.4	13.8	13.7	140.9	14,892.8	96.2	0.9
11/19/2014 10:27	0.0	-1.4	13.8	13.7	140.1	14,864.0	94.9	0.9
11/19/2014 10:28	0.0	-1.4	13.8	13.7	139.8	14,793.6	96.5	0.9
11/19/2014 10:29	0.0	-1.4	13.8	13.7	139.7	14,796.8	96.1	0.9
11/19/2014 10:30	0.0	-1.4	13.8	13.7	139.8	14,784.0	95.9	0.9
11/19/2014 10:31	0.0	-1.4	13.8	13.7	139.9	14,768.0	96.2	0.9
11/19/2014 10:32	0.0	-1.4	13.8	13.7	139.7	14,793.6	96.4	0.9
11/19/2014 10:33	0.0	-1.4	13.8	13.7	140.4	14,867.2	96.4	0.9
11/19/2014 10:34	0.0	-1.4	13.8	13.7	140.9	14,880.0	97.1	0.9
11/19/2014 10:35	0.0	-1.4	13.8	13.7	140.9	14,896.0	97.1	0.9
11/19/2014 10:36	0.0	-1.4	13.8	13.7	141.0	14,902.4	97.0	0.9
11/19/2014 10:37	0.0	-1.4	13.8	13.7	141.1	14,912.0	97.7	0.9
11/19/2014 10:38	0.0	-1.4	13.8	13.7	141.2	14,908.8	98.2	0.9
11/19/2014 10:39	0.0	-1.4	13.8	13.7	141.1	14,924.8	97.9	0.9
11/19/2014 10:40	0.0	-1.4	13.8	13.7	141.0	14,934.4	97.1	0.9
11/19/2014 10:41	0.0	-1.4	13.8	13.7	140.8	14,867.2	97.1	0.9
11/19/2014 10:42	0.0	-1.4	13.8	13.7	140.6	14,880.0	97.1	0.9
11/19/2014 10:43	0.0	-1.4	13.8	13.7	140.6	14,867.2	98.0	0.9
11/19/2014 10:44	0.0	-1.4	13.8	13.7	140.5	14,864.0	97.4	0.9
11/19/2014 10:45	0.0	-1.4	13.8	13.7	140.4	14,880.0	98.5	0.9
11/19/2014 10:46	0.0	-1.4	13.8	13.7	140.6	14,844.8	97.1	0.9
11/19/2014 10:47	0.0	-1.4	13.8	13.7	140.7	14,873.6	98.0	0.9
11/19/2014 10:48	0.0	-1.4	13.8	13.7	140.6	14,860.8	97.9	0.9
11/19/2014 10:49	0.0	-1.4	13.8	13.7	140.8	14,880.0	98.5	0.9
11/19/2014 10:50	0.0	-1.4	13.8	13.7	140.6	14,860.8	98.1	0.9
11/19/2014 10:51	0.0	-1.4	13.8	13.7	140.7	14,864.0	97.9	0.9
11/19/2014 10:52	0.0	-1.4	13.8	13.7	140.6	14,844.8	97.3	0.9
11/19/2014 10:53	0.0	-1.4	13.8	13.7	140.6	14,860.8	97.4	0.9
11/19/2014 10:54	0.0	-1.4	13.8	13.7	140.7	14,848.0	97.2	0.9

RATA Data Report 2

CT2

R1 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 10:26 **To:** 11/19/2014 11:03 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 12:59 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 10:55	0.0	-1.4	13.8	13.7	140.6	14,860.8	97.6	0.9
11/19/2014 10:56	0.0	-1.4	13.8	13.7	140.6	14,889.6	97.8	0.9
11/19/2014 10:57	0.0	-1.4	13.8	13.7	140.6	14,857.6	98.0	0.9
11/19/2014 10:58	0.0	-1.4	13.8	13.7	140.4	14,870.4	97.3	0.9
11/19/2014 10:59	0.0	-1.4	13.8	13.7	140.3	14,851.2	97.8	0.9
11/19/2014 11:00	0.0	-1.4	13.8	13.7	140.1	14,835.2	96.5	0.9
11/19/2014 11:01	0.0	-1.4	13.8	13.7	140.0	14,816.0	97.6	0.9
11/19/2014 11:02	0.0	-1.4	13.8	13.7	139.9	14,796.8	97.2	0.9
11/19/2014 11:03	0.0	-1.4	13.8	13.7	139.9	14,825.6	98.1	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.4	13.8	13.7	140.5	14,858.4	97.3	0.9

RATA Data Report

CT2

R2 - mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 11:13	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:14	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:15	13.8	1.3	1.1	0.004	6.1	9.0	11.0	13.7
11/19/2014 11:16	13.8	1.3	1.1	0.004	6.1	8.9	10.9	13.7
11/19/2014 11:17	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 11:18	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 11:19	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:20	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:21	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:22	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:23	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:24	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:25	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:26	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:27	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:28	13.8	1.3	1.1	0.004	6.1	9.0	11.0	13.7
11/19/2014 11:29	13.8	1.3	1.1	0.004	6.1	9.0	11.0	13.7
11/19/2014 11:30	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:31	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:32	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 11:33	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:34	13.8	1.3	1.1	0.004	6.1	9.2	11.2	13.7
11/19/2014 11:35	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 11:36	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 11:37	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 11:38	13.8	1.3	1.1	0.004	6.2	9.2	11.2	13.7
11/19/2014 11:39	13.8	1.3	1.1	0.004	6.1	9.2	11.2	13.7
11/19/2014 11:40	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:41	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7

RATA Data Report

CT2

R2 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 11:42	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:43	13.8	1.3	1.1	0.004	6.2	9.0	11.0	13.7
11/19/2014 11:44	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:45	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:46	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:47	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:48	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:49	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 11:50	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:13	13.8	-0.5	0.0	-1.4	1,533.2	139.6	2,957,185.2	0.9
11/19/2014 11:14	13.8	-0.5	0.0	-1.4	1,531.6	139.8	2,954,099.1	0.9
11/19/2014 11:15	13.8	-0.5	0.0	-1.4	1,533.9	139.6	2,958,535.3	0.9
11/19/2014 11:16	13.8	-0.5	0.0	-1.4	1,531.9	139.6	2,954,677.8	0.9
11/19/2014 11:17	13.8	-0.5	0.0	-1.4	1,530.6	139.5	2,952,170.4	0.9
11/19/2014 11:18	13.8	-0.5	0.0	-1.4	1,530.9	139.6	2,952,749.0	0.9
11/19/2014 11:19	13.8	-0.5	0.0	-1.4	1,531.2	139.7	2,953,327.6	0.9
11/19/2014 11:20	13.8	-0.5	0.0	-1.4	1,531.9	139.6	2,954,677.8	0.9
11/19/2014 11:21	13.8	-0.5	0.0	-1.4	1,529.6	139.8	2,950,241.6	0.9
11/19/2014 11:22	13.8	-0.5	0.0	-1.4	1,530.6	139.5	2,952,170.4	0.9
11/19/2014 11:23	13.8	-0.5	0.0	-1.4	1,529.6	139.4	2,950,241.6	0.9
11/19/2014 11:24	13.8	-0.5	0.0	-1.4	1,526.6	139.5	2,944,455.3	0.9
11/19/2014 11:25	13.8	-0.5	0.0	-1.4	1,527.3	139.3	2,945,805.4	0.9
11/19/2014 11:26	13.8	-0.5	0.0	-1.4	1,526.3	139.1	2,943,876.7	0.9
11/19/2014 11:27	13.8	-0.5	0.0	-1.4	1,532.6	139.8	2,956,027.9	0.9
11/19/2014 11:28	13.8	-0.5	0.0	-1.4	1,535.2	140.0	2,961,042.7	0.9
11/19/2014 11:29	13.8	-0.5	0.0	-1.4	1,534.2	140.0	2,959,113.9	0.9
11/19/2014 11:30	13.8	-0.5	0.0	-1.4	1,537.9	140.2	2,966,250.4	0.9
11/19/2014 11:31	13.8	-0.5	0.0	-1.4	1,540.5	140.5	2,971,265.2	0.9
11/19/2014 11:32	13.8	-0.5	0.0	-1.4	1,534.5	140.5	2,959,692.6	0.9
11/19/2014 11:33	13.8	-0.5	0.0	-1.4	1,538.5	140.4	2,967,407.6	0.9
11/19/2014 11:34	13.8	-0.5	0.0	-1.4	1,536.2	140.6	2,962,971.5	0.9
11/19/2014 11:35	13.8	-0.5	0.0	-1.4	1,540.5	140.6	2,971,265.2	0.9
11/19/2014 11:36	13.8	-0.5	0.0	-1.4	1,538.2	140.5	2,966,829.0	0.9
11/19/2014 11:37	13.8	-0.5	0.0	-1.4	1,537.5	140.6	2,965,478.9	0.9
11/19/2014 11:38	13.8	-0.5	0.0	-1.4	1,539.2	140.7	2,968,757.8	0.9
11/19/2014 11:39	13.8	-0.5	0.0	-1.4	1,535.5	140.7	2,961,621.3	0.9
11/19/2014 11:40	13.8	-0.5	0.0	-1.4	1,543.5	140.7	2,977,051.5	0.9
11/19/2014 11:41	13.8	-0.5	0.0	-1.4	1,535.2	140.6	2,961,042.7	0.9

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:42	13.8	-0.5	0.0	-1.4	1,540.8	140.7	2,971,843.8	0.9
11/19/2014 11:43	13.8	-0.5	0.0	-1.4	1,539.5	140.7	2,969,336.4	0.9
11/19/2014 11:44	13.8	-0.5	0.0	-1.4	1,539.8	140.7	2,969,915.0	0.9
11/19/2014 11:45	13.8	-0.5	0.0	-1.4	1,537.9	140.6	2,966,250.4	0.9
11/19/2014 11:46	13.8	-0.5	0.0	-1.4	1,543.8	140.6	2,977,630.1	0.9
11/19/2014 11:47	13.8	-0.5	0.0	-1.4	1,540.8	140.9	2,971,843.8	0.9
11/19/2014 11:48	13.8	-0.5	0.0	-1.4	1,542.5	141.1	2,975,122.7	0.9
11/19/2014 11:49	13.8	-0.5	0.0	-1.4	1,542.2	141.1	2,974,544.1	0.9
11/19/2014 11:50	13.8	-0.5	0.0	-1.4	1,542.5	141.3	2,975,122.7	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	-0.5	0.0	-1.4	1,535.6	140.2	2,961,885.3	0.9

RATA Data Report 2

CT2

R2 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:13	0.0	-1.4	13.8	13.7	139.6	14,809.6	96.9	0.9
11/19/2014 11:14	0.0	-1.4	13.8	13.7	139.8	14,793.6	96.7	0.9
11/19/2014 11:15	0.0	-1.4	13.8	13.7	139.6	14,816.0	96.7	0.9
11/19/2014 11:16	0.0	-1.4	13.8	13.7	139.6	14,796.8	96.5	0.9
11/19/2014 11:17	0.0	-1.4	13.8	13.7	139.5	14,784.0	96.7	0.9
11/19/2014 11:18	0.0	-1.4	13.8	13.7	139.6	14,787.2	96.6	0.9
11/19/2014 11:19	0.0	-1.4	13.8	13.7	139.7	14,790.4	97.3	0.9
11/19/2014 11:20	0.0	-1.4	13.8	13.7	139.6	14,796.8	97.2	0.9
11/19/2014 11:21	0.0	-1.4	13.8	13.7	139.8	14,774.4	97.1	0.9
11/19/2014 11:22	0.0	-1.4	13.8	13.7	139.5	14,784.0	97.2	0.9
11/19/2014 11:23	0.0	-1.4	13.8	13.7	139.4	14,774.4	96.4	0.9
11/19/2014 11:24	0.0	-1.4	13.8	13.7	139.5	14,745.6	97.5	0.9
11/19/2014 11:25	0.0	-1.4	13.8	13.7	139.3	14,752.0	96.6	0.9
11/19/2014 11:26	0.0	-1.4	13.8	13.7	139.1	14,742.4	96.6	0.9
11/19/2014 11:27	0.0	-1.4	13.8	13.7	139.8	14,803.2	96.5	0.9
11/19/2014 11:28	0.0	-1.4	13.8	13.7	140.0	14,828.8	97.0	0.9
11/19/2014 11:29	0.0	-1.4	13.8	13.7	140.0	14,819.2	97.5	0.9
11/19/2014 11:30	0.0	-1.4	13.8	13.7	140.2	14,854.4	97.0	0.9
11/19/2014 11:31	0.0	-1.4	13.8	13.7	140.5	14,880.0	97.6	0.9
11/19/2014 11:32	0.0	-1.4	13.8	13.7	140.5	14,822.4	97.1	0.9
11/19/2014 11:33	0.0	-1.4	13.8	13.7	140.4	14,860.8	97.0	0.9
11/19/2014 11:34	0.0	-1.4	13.8	13.7	140.6	14,838.4	97.5	0.9
11/19/2014 11:35	0.0	-1.4	13.8	13.7	140.6	14,880.0	97.1	0.9
11/19/2014 11:36	0.0	-1.4	13.8	13.7	140.5	14,857.6	97.5	0.9
11/19/2014 11:37	0.0	-1.4	13.8	13.7	140.6	14,851.2	97.5	0.9
11/19/2014 11:38	0.0	-1.4	13.8	13.7	140.7	14,867.2	97.2	0.9
11/19/2014 11:39	0.0	-1.4	13.8	13.7	140.7	14,832.0	97.8	0.9
11/19/2014 11:40	0.0	-1.4	13.8	13.7	140.7	14,908.8	96.5	0.9
11/19/2014 11:41	0.0	-1.4	13.8	13.7	140.6	14,828.8	97.7	0.9

RATA Data Report 2

CT2

R2 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:13 **To:** 11/19/2014 11:50 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:00 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:42	0.0	-1.4	13.8	13.7	140.7	14,883.2	97.7	0.9
11/19/2014 11:43	0.0	-1.4	13.8	13.7	140.7	14,870.4	97.7	0.9
11/19/2014 11:44	0.0	-1.4	13.8	13.7	140.7	14,873.6	96.9	0.9
11/19/2014 11:45	0.0	-1.4	13.8	13.7	140.6	14,854.4	96.8	0.9
11/19/2014 11:46	0.0	-1.4	13.8	13.7	140.6	14,912.0	98.6	0.9
11/19/2014 11:47	0.0	-1.4	13.8	13.7	140.9	14,883.2	96.7	0.9
11/19/2014 11:48	0.0	-1.4	13.8	13.7	141.1	14,899.2	97.8	0.9
11/19/2014 11:49	0.0	-1.4	13.8	13.7	141.1	14,896.0	97.5	0.9
11/19/2014 11:50	0.0	-1.4	13.8	13.7	141.3	14,899.2	97.6	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.4	13.8	13.7	140.2	14,832.9	97.2	0.9

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 11:59	13.8	1.3	1.1	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:00	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:01	13.8	1.3	1.1	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:02	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:03	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:04	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:05	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:06	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:07	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:08	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:09	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:10	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:11	13.8	1.2	1.0	0.004	6.2	8.0	11.0	12.8
11/19/2014 12:12	13.8	1.2	1.0	0.004	6.2	9.0	11.0	13.7
11/19/2014 12:13	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:14	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:15	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:16	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:17	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:18	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:19	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:20	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:21	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:22	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:23	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:24	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:25	13.8	1.2	1.0	0.004	6.2	9.0	11.0	13.7
11/19/2014 12:26	13.8	1.2	1.0	0.004	6.2	9.0	11.0	13.7
11/19/2014 12:27	13.8	1.2	1.0	0.004	6.2	9.0	11.0	13.7

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 12:28	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:29	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:30	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:31	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:32	13.8	1.2	1.0	0.004	6.2	9.1	11.1	13.7
11/19/2014 12:33	13.8	1.2	1.0	0.004	6.1	9.1	11.1	13.7
11/19/2014 12:34	13.8	1.2	1.0	0.004	6.2	9.0	11.0	13.7
11/19/2014 12:35	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
11/19/2014 12:36	13.8	1.2	1.0	0.004	6.1	9.0	11.0	13.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	1.2	1.0	0.004	6.1	9.0	11.1	13.7

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:59	13.8	-0.5	0.0	-1.4	1,538.2	140.4	2,966,829.0	0.9
11/19/2014 12:00	13.8	-0.5	0.0	-1.4	1,536.2	140.4	2,962,971.5	0.9
11/19/2014 12:01	13.8	-0.5	0.0	-1.4	1,534.5	140.4	2,959,692.6	0.9
11/19/2014 12:02	13.8	-0.5	0.0	-1.4	1,532.9	140.3	2,956,606.5	0.9
11/19/2014 12:03	13.8	-0.5	0.0	-1.4	1,534.9	140.4	2,960,464.1	0.9
11/19/2014 12:04	13.8	-0.5	0.0	-1.4	1,538.5	140.6	2,967,407.6	0.9
11/19/2014 12:05	13.8	-0.5	0.0	-1.4	1,539.2	140.6	2,968,757.8	0.9
11/19/2014 12:06	13.8	-0.5	0.0	-1.4	1,539.8	140.8	2,969,915.0	0.9
11/19/2014 12:07	13.8	-0.5	0.0	-1.4	1,534.9	140.4	2,960,464.1	0.9
11/19/2014 12:08	13.8	-0.5	0.0	-1.4	1,534.2	140.3	2,959,113.9	0.9
11/19/2014 12:09	13.8	-0.5	0.0	-1.4	1,536.2	140.3	2,962,971.5	0.9
11/19/2014 12:10	13.8	-0.5	0.0	-1.4	1,535.5	140.4	2,961,621.3	0.9
11/19/2014 12:11	13.8	-0.5	0.0	-1.4	1,539.5	140.3	2,969,336.4	0.9
11/19/2014 12:12	13.8	-0.5	0.0	-1.4	1,537.9	140.4	2,966,250.4	0.9
11/19/2014 12:13	13.8	-0.5	0.0	-1.4	1,534.2	140.3	2,959,113.9	0.9
11/19/2014 12:14	13.8	-0.5	0.0	-1.4	1,536.9	140.2	2,964,321.6	0.9
11/19/2014 12:15	13.8	-0.5	0.0	-1.4	1,534.2	140.3	2,959,113.9	0.9
11/19/2014 12:16	13.8	-0.5	0.0	-1.4	1,534.9	140.2	2,960,464.1	0.9
11/19/2014 12:17	13.8	-0.5	0.0	-1.4	1,532.2	140.2	2,955,256.4	0.9
11/19/2014 12:18	13.8	-0.5	0.0	-1.4	1,534.2	140.2	2,959,113.9	0.9
11/19/2014 12:19	13.8	-0.5	0.0	-1.4	1,535.5	140.6	2,961,621.3	0.9
11/19/2014 12:20	13.8	-0.5	0.0	-1.4	1,540.2	140.6	2,970,686.5	0.9
11/19/2014 12:21	13.8	-0.5	0.0	-1.4	1,542.8	140.6	2,975,701.3	0.9
11/19/2014 12:22	13.8	-0.5	0.0	-1.4	1,536.5	140.7	2,963,550.1	0.9
11/19/2014 12:23	13.8	-0.5	0.0	-1.4	1,537.9	140.7	2,966,250.4	0.9
11/19/2014 12:24	13.8	-0.5	0.0	-1.4	1,534.9	140.9	2,960,464.1	0.9
11/19/2014 12:25	13.8	-0.5	0.0	-1.4	1,538.9	140.7	2,968,179.1	0.9
11/19/2014 12:26	13.8	-0.5	0.0	-1.4	1,537.9	140.7	2,966,250.4	0.9
11/19/2014 12:27	13.8	-0.5	0.0	-1.4	1,540.8	140.8	2,971,843.8	0.9

RATA Data Report

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmwdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 12:28	13.8	-0.5	0.0	-1.4	1,540.5	140.7	2,971,265.2	0.9
11/19/2014 12:29	13.8	-0.5	0.0	-1.4	1,543.2	140.6	2,976,472.8	0.9
11/19/2014 12:30	13.8	-0.5	0.0	-1.4	1,535.2	140.7	2,961,042.7	0.9
11/19/2014 12:31	13.8	-0.5	0.0	-1.4	1,537.2	140.6	2,964,900.2	0.9
11/19/2014 12:32	13.8	-0.5	0.0	-1.4	1,537.5	140.4	2,965,478.9	0.9
11/19/2014 12:33	13.8	-0.5	0.0	-1.4	1,533.2	140.1	2,957,185.2	0.9
11/19/2014 12:34	13.8	-0.5	0.0	-1.4	1,537.5	139.9	2,965,478.9	0.9
11/19/2014 12:35	13.8	-0.5	0.0	-1.4	1,535.5	139.6	2,961,621.3	0.9
11/19/2014 12:36	13.8	-0.5	0.0	-1.4	1,534.2	139.9	2,959,113.9	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.8	-0.5	0.0	-1.4	1,536.8	140.4	2,964,128.7	0.9

RATA Data Report 2

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 11:59	0.0	-1.4	13.8	13.7	140.4	14,857.6	96.5	0.9
11/19/2014 12:00	0.0	-1.4	13.8	13.7	140.4	14,838.4	96.7	0.9
11/19/2014 12:01	0.0	-1.4	13.8	13.7	140.4	14,822.4	97.3	0.9
11/19/2014 12:02	0.0	-1.4	13.8	13.7	140.3	14,806.4	97.6	0.9
11/19/2014 12:03	0.0	-1.4	13.8	13.7	140.4	14,825.6	97.5	0.9
11/19/2014 12:04	0.0	-1.4	13.8	13.7	140.6	14,860.8	98.2	0.9
11/19/2014 12:05	0.0	-1.4	13.8	13.7	140.6	14,867.2	97.0	0.9
11/19/2014 12:06	0.0	-1.4	13.8	13.7	140.8	14,873.6	96.4	0.9
11/19/2014 12:07	0.0	-1.4	13.8	13.7	140.4	14,825.6	96.7	0.9
11/19/2014 12:08	0.0	-1.4	13.8	13.7	140.3	14,819.2	97.4	0.9
11/19/2014 12:09	0.0	-1.4	13.8	13.7	140.3	14,838.4	98.3	0.9
11/19/2014 12:10	0.0	-1.4	13.8	13.7	140.4	14,832.0	97.1	0.9
11/19/2014 12:11	0.0	-1.4	13.8	12.8	140.3	14,870.4	97.5	0.9
11/19/2014 12:12	0.0	-1.4	13.8	13.7	140.4	14,854.4	97.7	0.9
11/19/2014 12:13	0.0	-1.4	13.8	13.7	140.3	14,819.2	97.3	0.9
11/19/2014 12:14	0.0	-1.4	13.8	13.7	140.2	14,844.8	96.9	0.9
11/19/2014 12:15	0.0	-1.4	13.8	13.7	140.3	14,819.2	96.2	0.9
11/19/2014 12:16	0.0	-1.4	13.8	13.7	140.2	14,825.6	97.8	0.9
11/19/2014 12:17	0.0	-1.4	13.8	13.7	140.2	14,800.0	96.0	0.9
11/19/2014 12:18	0.0	-1.4	13.8	13.7	140.2	14,819.2	97.5	0.9
11/19/2014 12:19	0.0	-1.4	13.8	13.7	140.6	14,832.0	96.6	0.9
11/19/2014 12:20	0.0	-1.4	13.8	13.7	140.6	14,876.8	97.4	0.9
11/19/2014 12:21	0.0	-1.4	13.8	13.7	140.6	14,902.4	97.8	0.9
11/19/2014 12:22	0.0	-1.4	13.8	13.7	140.7	14,841.6	95.8	0.9
11/19/2014 12:23	0.0	-1.4	13.8	13.7	140.7	14,854.4	97.9	0.9
11/19/2014 12:24	0.0	-1.4	13.8	13.7	140.9	14,825.6	97.1	0.9
11/19/2014 12:25	0.0	-1.4	13.8	13.7	140.7	14,864.0	97.5	0.9
11/19/2014 12:26	0.0	-1.4	13.8	13.7	140.7	14,854.4	98.3	0.9
11/19/2014 12:27	0.0	-1.4	13.8	13.7	140.8	14,883.2	97.4	0.9

RATA Data Report 2

CT2

R3 mid comp

COLUSA GENERATING STATION

From: 11/19/2014 11:59 **To:** 11/19/2014 12:36 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/19/2014 13:02 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 12:28	0.0	-1.4	13.8	13.7	140.7	14,880.0	96.8	0.9
11/19/2014 12:29	0.0	-1.4	13.8	13.7	140.6	14,905.6	99.0	0.9
11/19/2014 12:30	0.0	-1.4	13.8	13.7	140.7	14,828.8	98.1	0.9
11/19/2014 12:31	0.0	-1.4	13.8	13.7	140.6	14,848.0	96.4	0.9
11/19/2014 12:32	0.0	-1.4	13.8	13.7	140.4	14,851.2	98.3	0.9
11/19/2014 12:33	0.0	-1.4	13.8	13.7	140.1	14,809.6	97.8	0.9
11/19/2014 12:34	0.0	-1.4	13.8	13.7	139.9	14,851.2	96.3	0.9
11/19/2014 12:35	0.0	-1.4	13.8	13.7	139.6	14,832.0	98.0	0.9
11/19/2014 12:36	0.0	-1.4	13.8	13.7	139.9	14,819.2	96.9	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.4	13.8	13.7	140.4	14,844.2	97.3	0.9

RATA Data Report

CT2

R1 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 12:56	13.7	1.3	1.1	0.004	7.4	9.0	11.1	13.6
11/19/2014 12:57	13.7	1.2	1.0	0.004	7.4	9.0	11.1	13.6
11/19/2014 12:58	13.7	1.1	0.9	0.003	5.5	8.9	11.0	13.6
11/19/2014 12:59	13.7	1.1	0.9	0.003	5.5	8.9	11.0	13.6
11/19/2014 13:00	13.7	1.1	0.9	0.003	5.6	8.9	11.0	13.6
11/19/2014 13:01	13.7	1.2	1.0	0.004	7.4	8.9	11.0	13.6
11/19/2014 13:02	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:03	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:04	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:05	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:06	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:07	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:08	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:09	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:10	13.7	1.2	1.0	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:11	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:12	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:13	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:14	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:15	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:16	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:17	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:18	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:19	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:20	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:21	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:22	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:23	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:24	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6

RATA Data Report

CT2

R1 Base comp

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 13:25	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:26	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:27	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:28	13.7	1.3	1.1	0.004	7.4	8.9	11.0	13.6
11/19/2014 13:29	13.7	1.3	1.1	0.004	7.4	8.9	11.0	13.6
11/19/2014 13:30	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:31	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:32	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:33	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	1.3	1.1	0.004	7.3	8.8	10.9	13.6

RATA Data Report

CT2

R1 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 12:56	13.7	-0.5	0.0	-1.7	1,851.6	178.7	3,521,703.0	1.1
11/19/2014 12:57	13.7	-0.5	0.0	-1.7	1,847.0	178.8	3,512,953.9	1.0
11/19/2014 12:58	13.7	-0.5	0.0	-1.7	1,847.3	178.8	3,513,524.5	0.9
11/19/2014 12:59	13.7	-0.5	0.0	-1.7	1,848.9	178.8	3,516,567.7	0.9
11/19/2014 13:00	13.7	-0.5	0.0	-1.7	1,851.9	178.6	3,522,273.6	0.9
11/19/2014 13:01	13.7	-0.5	0.0	-1.7	1,849.3	178.6	3,517,328.5	0.9
11/19/2014 13:02	13.7	-0.5	0.0	-1.7	1,849.3	178.4	3,517,328.5	0.9
11/19/2014 13:03	13.7	-0.5	0.0	-1.7	1,848.6	178.6	3,515,997.1	0.9
11/19/2014 13:04	13.7	-0.5	0.0	-1.7	1,849.9	178.7	3,518,469.7	0.9
11/19/2014 13:05	13.7	-0.5	0.0	-1.7	1,845.6	178.5	3,510,291.2	0.9
11/19/2014 13:06	13.7	-0.5	0.0	-1.7	1,850.3	178.7	3,519,230.5	0.9
11/19/2014 13:07	13.7	-0.5	0.0	-1.7	1,846.3	178.9	3,511,622.6	0.9
11/19/2014 13:08	13.7	-0.5	0.0	-1.7	1,848.9	178.6	3,516,567.7	0.9
11/19/2014 13:09	13.7	-0.5	0.0	-1.7	1,849.3	178.4	3,517,328.5	0.9
11/19/2014 13:10	13.7	-0.5	0.0	-1.7	1,842.0	178.5	3,503,444.0	0.9
11/19/2014 13:11	13.7	-0.5	0.0	-1.7	1,850.6	178.4	3,519,801.1	0.9
11/19/2014 13:12	13.7	-0.5	0.0	-1.7	1,852.3	178.4	3,523,034.4	0.9
11/19/2014 13:13	13.7	-0.5	0.0	-1.7	1,849.3	178.4	3,517,328.5	0.9
11/19/2014 13:14	13.7	-0.5	0.0	-1.7	1,846.3	178.5	3,511,622.6	0.9
11/19/2014 13:15	13.7	-0.5	0.0	-1.7	1,846.6	178.4	3,512,193.1	0.9
11/19/2014 13:16	13.7	-0.5	0.0	-1.7	1,849.3	178.2	3,517,328.5	0.9
11/19/2014 13:17	13.7	-0.5	0.0	-1.7	1,846.3	178.7	3,511,622.6	0.9
11/19/2014 13:18	13.7	-0.5	0.0	-1.7	1,844.3	178.4	3,507,818.6	0.9
11/19/2014 13:19	13.7	-0.5	0.0	-1.7	1,847.3	178.4	3,513,524.5	0.9
11/19/2014 13:20	13.7	-0.5	0.0	-1.7	1,842.0	178.3	3,503,444.0	0.9
11/19/2014 13:21	13.7	-0.5	0.0	-1.7	1,847.3	178.3	3,513,524.5	0.9
11/19/2014 13:22	13.7	-0.5	0.0	-1.7	1,844.3	178.2	3,507,818.6	0.9
11/19/2014 13:23	13.7	-0.5	0.0	-1.7	1,848.6	178.3	3,515,997.1	0.9
11/19/2014 13:24	13.7	-0.5	0.0	-1.7	1,847.6	178.4	3,514,095.1	0.9

RATA Data Report

CT2

R1 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 13:25	13.7	-0.5	0.0	-1.7	1,843.3	178.4	3,505,916.6	0.9
11/19/2014 13:26	13.7	-0.5	0.0	-1.7	1,844.3	178.0	3,507,818.6	0.9
11/19/2014 13:27	13.7	-0.5	0.0	-1.7	1,842.6	178.0	3,504,585.2	0.9
11/19/2014 13:28	13.7	-0.5	0.0	-1.7	1,851.6	178.1	3,521,703.0	0.9
11/19/2014 13:29	13.7	-0.5	0.0	-1.7	1,846.0	178.1	3,511,052.0	0.9
11/19/2014 13:30	13.7	-0.5	0.0	-1.7	1,846.3	178.1	3,511,622.6	0.9
11/19/2014 13:31	13.7	-0.5	0.0	-1.7	1,843.0	178.1	3,505,346.0	0.9
11/19/2014 13:32	13.7	-0.5	0.0	-1.7	1,842.0	178.2	3,503,444.0	0.9
11/19/2014 13:33	13.7	-0.5	0.0	-1.7	1,845.0	178.3	3,509,150.0	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	-0.5	0.0	-1.7	1,847.2	178.4	3,513,274.3	0.9

RATA Data Report 2

CT2

R1 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 12:56	0.0	-1.7	13.7	13.6	178.7	17,884.8	137.8	1.1
11/19/2014 12:57	0.0	-1.7	13.7	13.6	178.8	17,840.0	124.3	1.0
11/19/2014 12:58	0.0	-1.7	13.7	13.6	178.8	17,843.2	116.7	0.9
11/19/2014 12:59	0.0	-1.7	13.7	13.6	178.8	17,859.2	117.3	0.9
11/19/2014 13:00	0.0	-1.7	13.7	13.6	178.6	17,888.0	116.2	0.9
11/19/2014 13:01	0.0	-1.7	13.7	13.6	178.6	17,862.4	115.6	0.9
11/19/2014 13:02	0.0	-1.7	13.7	13.6	178.4	17,862.4	115.6	0.9
11/19/2014 13:03	0.0	-1.7	13.7	13.6	178.6	17,856.0	114.8	0.9
11/19/2014 13:04	0.0	-1.7	13.7	13.6	178.7	17,868.8	114.5	0.9
11/19/2014 13:05	0.0	-1.7	13.7	13.6	178.5	17,827.2	115.0	0.9
11/19/2014 13:06	0.0	-1.7	13.7	13.6	178.7	17,872.0	114.7	0.9
11/19/2014 13:07	0.0	-1.7	13.7	13.6	178.9	17,833.6	114.7	0.9
11/19/2014 13:08	0.0	-1.7	13.7	13.6	178.6	17,859.2	114.5	0.9
11/19/2014 13:09	0.0	-1.7	13.7	13.6	178.4	17,862.4	115.1	0.9
11/19/2014 13:10	0.0	-1.7	13.7	13.6	178.5	17,792.0	114.2	0.9
11/19/2014 13:11	0.0	-1.7	13.7	13.6	178.4	17,875.2	114.0	0.9
11/19/2014 13:12	0.0	-1.7	13.7	13.6	178.4	17,891.2	114.0	0.9
11/19/2014 13:13	0.0	-1.7	13.7	13.6	178.4	17,862.4	114.7	0.9
11/19/2014 13:14	0.0	-1.7	13.7	13.6	178.5	17,833.6	113.1	0.9
11/19/2014 13:15	0.0	-1.7	13.7	13.6	178.4	17,836.8	114.6	0.9
11/19/2014 13:16	0.0	-1.7	13.7	13.6	178.2	17,862.4	114.0	0.9
11/19/2014 13:17	0.0	-1.7	13.7	13.6	178.7	17,833.6	113.7	0.9
11/19/2014 13:18	0.0	-1.7	13.7	13.6	178.4	17,814.4	113.6	0.9
11/19/2014 13:19	0.0	-1.7	13.7	13.6	178.4	17,843.2	113.7	0.9
11/19/2014 13:20	0.0	-1.7	13.7	13.6	178.3	17,792.0	114.0	0.9
11/19/2014 13:21	0.0	-1.7	13.7	13.6	178.3	17,843.2	114.3	0.9
11/19/2014 13:22	0.0	-1.7	13.7	13.6	178.2	17,814.4	113.2	0.9
11/19/2014 13:23	0.0	-1.7	13.7	13.6	178.3	17,856.0	114.0	0.9
11/19/2014 13:24	0.0	-1.7	13.7	13.6	178.4	17,846.4	112.7	0.9

RATA Data Report 2

CT2

R1 Base Comp

COLUSA GENERATING STATION

From: 11/19/2014 12:56 **To:** 11/19/2014 13:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:26 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 13:25	0.0	-1.7	13.7	13.6	178.4	17,804.8	113.5	0.9
11/19/2014 13:26	0.0	-1.7	13.7	13.6	178.0	17,814.4	113.7	0.9
11/19/2014 13:27	0.0	-1.7	13.7	13.6	178.0	17,798.4	113.8	0.9
11/19/2014 13:28	0.0	-1.7	13.7	13.6	178.1	17,884.8	113.4	0.9
11/19/2014 13:29	0.0	-1.7	13.7	13.6	178.1	17,830.4	113.1	0.9
11/19/2014 13:30	0.0	-1.7	13.7	13.6	178.1	17,833.6	113.8	0.9
11/19/2014 13:31	0.0	-1.7	13.7	13.6	178.1	17,801.6	114.6	0.9
11/19/2014 13:32	0.0	-1.7	13.7	13.6	178.2	17,792.0	113.6	0.9
11/19/2014 13:33	0.0	-1.7	13.7	13.6	178.3	17,820.8	114.5	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.7	13.7	13.6	178.4	17,842.0	115.2	0.9

RATA Data Report

CT2

R2 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 13:45	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 13:46	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:47	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:48	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:49	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:50	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:51	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:52	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:53	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:54	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:55	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:56	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:57	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:58	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 13:59	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 14:00	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 14:01	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:02	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:03	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:04	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:05	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:06	13.7	1.3	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 14:07	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:08	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:09	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:10	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:11	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:12	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:13	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6

RATA Data Report

CT2

R2 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 14:14	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:15	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:16	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:17	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:18	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:19	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:20	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:21	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:22	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:23	13.7	1.3	1.1	0.004	7.4	8.6	10.7	13.6
11/19/2014 14:24	13.7	1.3	1.1	0.004	7.4	8.6	10.7	13.6
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6

RATA Data Report

CT2

R2 Base comp

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 13:45	13.7	-0.5	0.0	-1.7	1,844.6	178.3	3,508,389.2	0.9
11/19/2014 13:46	13.7	-0.5	0.0	-1.7	1,844.6	178.2	3,508,389.2	0.9
11/19/2014 13:47	13.7	-0.5	0.0	-1.7	1,846.3	178.1	3,511,622.6	0.9
11/19/2014 13:48	13.7	-0.5	0.0	-1.7	1,843.6	178.2	3,506,487.2	0.9
11/19/2014 13:49	13.7	-0.5	0.0	-1.7	1,844.0	178.1	3,507,248.0	0.9
11/19/2014 13:50	13.7	-0.5	0.0	-1.7	1,845.0	178.2	3,509,150.0	0.9
11/19/2014 13:51	13.7	-0.5	0.0	-1.7	1,846.3	178.3	3,511,622.6	0.9
11/19/2014 13:52	13.7	-0.5	0.0	-1.7	1,845.3	178.1	3,509,720.6	0.9
11/19/2014 13:53	13.7	-0.5	0.0	-1.7	1,843.0	178.2	3,505,346.0	0.9
11/19/2014 13:54	13.7	-0.5	0.0	-1.7	1,846.0	178.2	3,511,052.0	0.9
11/19/2014 13:55	13.7	-0.5	0.0	-1.7	1,847.9	178.0	3,514,665.7	0.9
11/19/2014 13:56	13.7	-0.5	0.0	-1.7	1,844.0	178.0	3,507,248.0	0.9
11/19/2014 13:57	13.7	-0.5	0.0	-1.7	1,843.6	178.3	3,506,487.2	0.9
11/19/2014 13:58	13.7	-0.5	0.0	-1.7	1,846.3	178.2	3,511,622.6	0.9
11/19/2014 13:59	13.7	-0.5	0.0	-1.7	1,845.6	178.3	3,510,291.2	0.9
11/19/2014 14:00	13.7	-0.5	0.0	-1.7	1,845.0	178.4	3,509,150.0	0.9
11/19/2014 14:01	13.7	-0.5	0.0	-1.7	1,845.6	178.2	3,510,291.2	0.9
11/19/2014 14:02	13.7	-0.5	0.0	-1.7	1,846.6	178.2	3,512,193.1	0.9
11/19/2014 14:03	13.7	-0.5	0.0	-1.7	1,843.3	178.4	3,505,916.6	0.9
11/19/2014 14:04	13.7	-0.5	0.0	-1.7	1,845.6	178.4	3,510,291.2	0.9
11/19/2014 14:05	13.7	-0.5	0.0	-1.7	1,844.6	178.4	3,508,389.2	0.9
11/19/2014 14:06	13.7	-0.5	0.0	-1.7	1,845.6	178.5	3,510,291.2	0.9
11/19/2014 14:07	13.7	-0.5	0.0	-1.7	1,845.0	178.2	3,509,150.0	0.9
11/19/2014 14:08	13.7	-0.5	0.0	-1.7	1,845.6	178.2	3,510,291.2	0.9
11/19/2014 14:09	13.7	-0.5	0.0	-1.7	1,844.0	178.3	3,507,248.0	0.9
11/19/2014 14:10	13.7	-0.5	0.0	-1.7	1,846.3	178.2	3,511,622.6	0.9
11/19/2014 14:11	13.7	-0.5	0.0	-1.7	1,845.0	178.2	3,509,150.0	0.9
11/19/2014 14:12	13.7	-0.5	0.0	-1.7	1,842.6	178.4	3,504,585.2	0.9
11/19/2014 14:13	13.7	-0.5	0.0	-1.7	1,846.6	178.4	3,512,193.1	0.9

RATA Data Report

CT2

R2 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 14:14	13.7	-0.5	0.0	-1.7	1,845.3	178.3	3,509,720.6	0.9
11/19/2014 14:15	13.7	-0.5	0.0	-1.7	1,849.6	178.1	3,517,899.1	0.9
11/19/2014 14:16	13.7	-0.5	0.0	-1.7	1,846.0	178.2	3,511,052.0	0.9
11/19/2014 14:17	13.7	-0.5	0.0	-1.7	1,840.7	178.3	3,500,971.5	0.9
11/19/2014 14:18	13.7	-0.5	0.0	-1.7	1,844.3	178.4	3,507,818.6	0.9
11/19/2014 14:19	13.7	-0.5	0.0	-1.7	1,845.3	178.3	3,509,720.6	0.9
11/19/2014 14:20	13.7	-0.5	0.0	-1.7	1,844.3	178.1	3,507,818.6	0.9
11/19/2014 14:21	13.7	-0.5	0.0	-1.7	1,843.3	178.1	3,505,916.6	0.9
11/19/2014 14:22	13.7	-0.5	0.0	-1.7	1,846.3	178.3	3,511,622.6	0.9
11/19/2014 14:23	13.7	-0.5	0.0	-1.7	1,843.6	177.9	3,506,487.2	0.9
11/19/2014 14:24	13.7	-0.5	0.0	-1.7	1,843.6	178.1	3,506,487.2	0.9
Valid Data Points	40	40	40	40	40	40	40	40
Average:	13.7	-0.5	0.0	-1.7	1,845.0	178.2	3,509,140.5	0.9

RATA Data Report 2

CT2

R2 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfm 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 13:45	0.0	-1.7	13.7	13.6	178.3	17,817.6	113.2	0.9
11/19/2014 13:46	0.0	-1.7	13.7	13.6	178.2	17,817.6	113.6	0.9
11/19/2014 13:47	0.0	-1.7	13.7	13.6	178.1	17,833.6	113.0	0.9
11/19/2014 13:48	0.0	-1.7	13.7	13.6	178.2	17,808.0	113.2	0.9
11/19/2014 13:49	0.0	-1.7	13.7	13.6	178.1	17,811.2	113.6	0.9
11/19/2014 13:50	0.0	-1.7	13.7	13.6	178.2	17,820.8	113.0	0.9
11/19/2014 13:51	0.0	-1.7	13.7	13.6	178.3	17,833.6	113.4	0.9
11/19/2014 13:52	0.0	-1.7	13.7	13.6	178.1	17,824.0	113.4	0.9
11/19/2014 13:53	0.0	-1.7	13.7	13.6	178.2	17,801.6	113.2	0.9
11/19/2014 13:54	0.0	-1.7	13.7	13.6	178.2	17,830.4	113.3	0.9
11/19/2014 13:55	0.0	-1.7	13.7	13.6	178.0	17,849.6	113.1	0.9
11/19/2014 13:56	0.0	-1.7	13.7	13.6	178.0	17,811.2	113.2	0.9
11/19/2014 13:57	0.0	-1.7	13.7	13.6	178.3	17,808.0	113.9	0.9
11/19/2014 13:58	0.0	-1.7	13.7	13.6	178.2	17,833.6	113.5	0.9
11/19/2014 13:59	0.0	-1.7	13.7	13.6	178.3	17,827.2	113.3	0.9
11/19/2014 14:00	0.0	-1.7	13.7	13.6	178.4	17,820.8	113.5	0.9
11/19/2014 14:01	0.0	-1.7	13.7	13.6	178.2	17,827.2	113.4	0.9
11/19/2014 14:02	0.0	-1.7	13.7	13.6	178.2	17,836.8	113.1	0.9
11/19/2014 14:03	0.0	-1.7	13.7	13.6	178.4	17,804.8	113.4	0.9
11/19/2014 14:04	0.0	-1.7	13.7	13.6	178.4	17,827.2	113.1	0.9
11/19/2014 14:05	0.0	-1.7	13.7	13.6	178.4	17,817.6	113.8	0.9
11/19/2014 14:06	0.0	-1.7	13.7	13.6	178.5	17,827.2	113.7	0.9
11/19/2014 14:07	0.0	-1.7	13.7	13.6	178.2	17,820.8	112.8	0.9
11/19/2014 14:08	0.0	-1.7	13.7	13.6	178.2	17,827.2	112.8	0.9
11/19/2014 14:09	0.0	-1.7	13.7	13.6	178.3	17,811.2	113.5	0.9
11/19/2014 14:10	0.0	-1.7	13.7	13.6	178.2	17,833.6	113.1	0.9
11/19/2014 14:11	0.0	-1.7	13.7	13.6	178.2	17,820.8	113.1	0.9
11/19/2014 14:12	0.0	-1.7	13.7	13.6	178.4	17,798.4	113.4	0.9
11/19/2014 14:13	0.0	-1.7	13.7	13.6	178.4	17,836.8	112.5	0.9

RATA Data Report 2

CT2

R2 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 13:45 **To:** 11/19/2014 14:24 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:27 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfm 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 14:14	0.0	-1.7	13.7	13.6	178.3	17,824.0	113.3	0.9
11/19/2014 14:15	0.0	-1.7	13.7	13.6	178.1	17,865.6	112.5	0.9
11/19/2014 14:16	0.0	-1.7	13.7	13.6	178.2	17,830.4	113.2	0.9
11/19/2014 14:17	0.0	-1.7	13.7	13.6	178.3	17,779.2	113.5	0.9
11/19/2014 14:18	0.0	-1.7	13.7	13.6	178.4	17,814.4	113.8	0.9
11/19/2014 14:19	0.0	-1.7	13.7	13.6	178.3	17,824.0	112.9	0.9
11/19/2014 14:20	0.0	-1.7	13.7	13.6	178.1	17,814.4	113.5	0.9
11/19/2014 14:21	0.0	-1.7	13.7	13.6	178.1	17,804.8	112.9	0.9
11/19/2014 14:22	0.0	-1.7	13.7	13.6	178.3	17,833.6	112.7	0.9
11/19/2014 14:23	0.0	-1.7	13.7	13.6	177.9	17,808.0	112.6	0.9
11/19/2014 14:24	0.0	-1.7	13.7	13.6	178.1	17,808.0	112.3	0.9
Valid Data Points	40	40	40	40	40	40	40	40
Average:	0.0	-1.7	13.7	13.6	178.2	17,821.1	113.2	0.9

RATA Data Report

CT2

R3 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 14:37	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:38	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:39	13.7	1.3	1.1	0.004	7.3	8.7	10.8	13.6
11/19/2014 14:40	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:41	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:42	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:43	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:44	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:45	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:46	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:47	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:48	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:49	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:50	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:51	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:52	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:53	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:54	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:55	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:56	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:57	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:58	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 14:59	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:00	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:01	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:02	13.7	1.4	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:03	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 15:04	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 15:05	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6

RATA Data Report

CT2

R3 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/19/2014 15:06	13.7	1.4	1.1	0.004	7.4	8.8	10.9	13.6
11/19/2014 15:07	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:08	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:09	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:10	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:11	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:12	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:13	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
11/19/2014 15:14	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	1.3	1.1	0.004	7.4	8.7	10.8	13.6

RATA Data Report

CT2

R3 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 14:37	13.7	-0.5	0.0	-1.7	1,842.0	178.0	3,503,444.0	0.9
11/19/2014 14:38	13.7	-0.5	0.0	-1.7	1,844.3	177.8	3,507,818.6	0.9
11/19/2014 14:39	13.7	-0.5	0.0	-1.7	1,837.3	177.9	3,494,504.8	0.9
11/19/2014 14:40	13.7	-0.5	0.0	-1.7	1,842.3	177.9	3,504,014.6	0.9
11/19/2014 14:41	13.7	-0.5	0.0	-1.7	1,844.0	177.7	3,507,248.0	0.9
11/19/2014 14:42	13.7	-0.5	0.0	-1.7	1,841.7	178.0	3,502,873.5	0.9
11/19/2014 14:43	13.7	-0.5	0.0	-1.7	1,840.7	177.9	3,500,971.5	0.9
11/19/2014 14:44	13.7	-0.5	0.0	-1.7	1,843.3	178.0	3,505,916.6	0.9
11/19/2014 14:45	13.7	-0.5	0.0	-1.7	1,841.7	177.9	3,502,873.5	0.9
11/19/2014 14:46	13.7	-0.5	0.0	-1.7	1,843.6	177.7	3,506,487.2	0.9
11/19/2014 14:47	13.7	-0.5	0.0	-1.7	1,841.3	177.7	3,502,112.7	0.9
11/19/2014 14:48	13.7	-0.5	0.0	-1.7	1,841.0	177.6	3,501,542.1	0.9
11/19/2014 14:49	13.7	-0.5	0.0	-1.7	1,840.3	177.6	3,500,210.7	0.9
11/19/2014 14:50	13.7	-0.5	0.0	-1.7	1,840.0	177.8	3,499,640.1	0.9
11/19/2014 14:51	13.7	-0.5	0.0	-1.7	1,842.0	178.0	3,503,444.0	0.9
11/19/2014 14:52	13.7	-0.5	0.0	-1.7	1,843.3	177.9	3,505,916.6	0.9
11/19/2014 14:53	13.7	-0.5	0.0	-1.7	1,843.0	177.9	3,505,346.0	0.9
11/19/2014 14:54	13.7	-0.5	0.0	-1.7	1,839.3	177.8	3,498,308.7	0.9
11/19/2014 14:55	13.7	-0.5	0.0	-1.7	1,840.7	177.7	3,500,971.5	0.9
11/19/2014 14:56	13.7	-0.5	0.0	-1.7	1,840.3	177.7	3,500,210.7	0.9
11/19/2014 14:57	13.7	-0.5	0.0	-1.7	1,842.6	178.0	3,504,585.2	0.9
11/19/2014 14:58	13.7	-0.5	0.0	-1.7	1,843.3	178.1	3,505,916.6	0.9
11/19/2014 14:59	13.7	-0.5	0.0	-1.7	1,842.3	178.0	3,504,014.6	0.9
11/19/2014 15:00	13.7	-0.5	0.0	-1.7	1,842.6	177.9	3,504,585.2	0.9
11/19/2014 15:01	13.7	-0.5	0.0	-1.7	1,840.7	178.2	3,500,971.5	0.9
11/19/2014 15:02	13.7	-0.5	0.0	-1.7	1,843.3	178.0	3,505,916.6	0.9
11/19/2014 15:03	13.7	-0.5	0.0	-1.7	1,841.0	178.1	3,501,542.1	0.9
11/19/2014 15:04	13.7	-0.5	0.0	-1.7	1,843.3	177.9	3,505,916.6	0.9
11/19/2014 15:05	13.7	-0.5	0.0	-1.7	1,844.0	178.0	3,507,248.0	0.9

RATA Data Report

CT2

R3 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 15:06	13.7	-0.5	0.0	-1.7	1,845.0	178.1	3,509,150.0	0.9
11/19/2014 15:07	13.7	-0.5	0.0	-1.7	1,843.0	178.3	3,505,346.0	0.9
11/19/2014 15:08	13.7	-0.5	0.0	-1.7	1,846.0	178.1	3,511,052.0	0.9
11/19/2014 15:09	13.7	-0.5	0.0	-1.7	1,844.3	178.1	3,507,818.6	0.9
11/19/2014 15:10	13.7	-0.5	0.0	-1.7	1,845.6	178.1	3,510,291.2	0.9
11/19/2014 15:11	13.7	-0.5	0.0	-1.7	1,842.6	178.1	3,504,585.2	0.9
11/19/2014 15:12	13.7	-0.5	0.0	-1.7	1,846.6	178.2	3,512,193.1	0.9
11/19/2014 15:13	13.7	-0.5	0.0	-1.7	1,844.6	178.3	3,508,389.2	0.9
11/19/2014 15:14	13.7	-0.5	0.0	-1.7	1,842.0	178.1	3,503,444.0	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	13.7	-0.5	0.0	-1.7	1,842.5	178.0	3,504,390.0	0.9

RATA Data Report 2

CT2

R3 Base Comp

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 14:37	0.0	-1.7	13.7	13.6	178.0	17,792.0	113.5	0.9
11/19/2014 14:38	0.0	-1.7	13.7	13.6	177.8	17,814.4	112.8	0.9
11/19/2014 14:39	0.0	-1.7	13.7	13.6	177.9	17,747.2	113.5	0.9
11/19/2014 14:40	0.0	-1.7	13.7	13.6	177.9	17,795.2	112.6	0.9
11/19/2014 14:41	0.0	-1.7	13.7	13.6	177.7	17,811.2	112.8	0.9
11/19/2014 14:42	0.0	-1.7	13.7	13.6	178.0	17,788.8	113.5	0.9
11/19/2014 14:43	0.0	-1.7	13.7	13.6	177.9	17,779.2	113.3	0.9
11/19/2014 14:44	0.0	-1.7	13.7	13.6	178.0	17,804.8	112.7	0.9
11/19/2014 14:45	0.0	-1.7	13.7	13.6	177.9	17,788.8	113.1	0.9
11/19/2014 14:46	0.0	-1.7	13.7	13.6	177.7	17,808.0	112.9	0.9
11/19/2014 14:47	0.0	-1.7	13.7	13.6	177.7	17,785.6	112.9	0.9
11/19/2014 14:48	0.0	-1.7	13.7	13.6	177.6	17,782.4	113.0	0.9
11/19/2014 14:49	0.0	-1.7	13.7	13.6	177.6	17,776.0	113.1	0.9
11/19/2014 14:50	0.0	-1.7	13.7	13.6	177.8	17,772.8	113.5	0.9
11/19/2014 14:51	0.0	-1.7	13.7	13.6	178.0	17,792.0	112.8	0.9
11/19/2014 14:52	0.0	-1.7	13.7	13.6	177.9	17,804.8	113.1	0.9
11/19/2014 14:53	0.0	-1.7	13.7	13.6	177.9	17,801.6	113.4	0.9
11/19/2014 14:54	0.0	-1.7	13.7	13.6	177.8	17,766.4	112.8	0.9
11/19/2014 14:55	0.0	-1.7	13.7	13.6	177.7	17,779.2	112.8	0.9
11/19/2014 14:56	0.0	-1.7	13.7	13.6	177.7	17,776.0	113.3	0.9
11/19/2014 14:57	0.0	-1.7	13.7	13.6	178.0	17,798.4	113.0	0.9
11/19/2014 14:58	0.0	-1.7	13.7	13.6	178.1	17,804.8	113.1	0.9
11/19/2014 14:59	0.0	-1.7	13.7	13.6	178.0	17,795.2	113.3	0.9
11/19/2014 15:00	0.0	-1.7	13.7	13.6	177.9	17,798.4	113.4	0.9
11/19/2014 15:01	0.0	-1.7	13.7	13.6	178.2	17,779.2	113.5	0.9
11/19/2014 15:02	0.0	-1.7	13.7	13.6	178.0	17,804.8	113.6	0.9
11/19/2014 15:03	0.0	-1.7	13.7	13.6	178.1	17,782.4	113.4	0.9
11/19/2014 15:04	0.0	-1.7	13.7	13.6	177.9	17,804.8	113.0	0.9
11/19/2014 15:05	0.0	-1.7	13.7	13.6	178.0	17,811.2	113.9	0.9

RATA Data Report 2

CT2

R3 BASE COMP

COLUSA GENERATING STATION

From: 11/19/2014 14:37 **To:** 11/19/2014 15:14 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 08:28 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, CT, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/19/2014 15:06	0.0	-1.7	13.7	13.6	178.1	17,820.8	113.3	0.9
11/19/2014 15:07	0.0	-1.7	13.7	13.6	178.3	17,801.6	113.4	0.9
11/19/2014 15:08	0.0	-1.7	13.7	13.6	178.1	17,830.4	113.1	0.9
11/19/2014 15:09	0.0	-1.7	13.7	13.6	178.1	17,814.4	113.0	0.9
11/19/2014 15:10	0.0	-1.7	13.7	13.6	178.1	17,827.2	113.7	0.9
11/19/2014 15:11	0.0	-1.7	13.7	13.6	178.1	17,798.4	113.2	0.9
11/19/2014 15:12	0.0	-1.7	13.7	13.6	178.2	17,836.8	113.1	0.9
11/19/2014 15:13	0.0	-1.7	13.7	13.6	178.3	17,817.6	113.5	0.9
11/19/2014 15:14	0.0	-1.7	13.7	13.6	178.1	17,792.0	113.0	0.9
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.7	13.7	13.6	178.0	17,797.0	113.2	0.9

RATA Data Report

CT2

R1 max

COLUSA GENERATING STATION

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 07:56	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:57	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:58	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:59	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:00	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:01	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:02	11.6	2.0	1.3	0.005	11.6	9.0	11.9	13.1
11/20/2014 08:03	11.6	1.9	1.2	0.004	9.3	9.1	12.0	13.1
11/20/2014 08:04	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:05	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:06	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:07	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:08	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:09	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:10	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:11	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:12	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:13	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:14	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:15	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:16	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:17	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:18	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:19	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:20	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:21	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:22	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:23	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:24	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1

RATA Data Report

CT2

R1 max

COLUSA GENERATING STATION

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 08:25	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:26	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:27	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:28	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:29	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:30	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:31	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:32	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:33	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	1.7	1.1	0.004	8.8	9.0	11.9	13.1

RATA Data Report

CT2

R1 max

COLUSA GENERATING STATION

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 07:56	11.6	-0.5	0.0	-1.6	2,320.4	177.3	3,416,787.5	1.3
11/20/2014 07:57	11.6	-0.5	0.0	-1.6	2,318.6	177.3	3,414,137.0	1.3
11/20/2014 07:58	11.6	-0.5	0.0	-1.6	2,318.9	177.4	3,414,578.7	1.3
11/20/2014 07:59	11.6	-0.5	0.0	-1.6	2,319.5	177.4	3,415,462.2	1.2
11/20/2014 08:00	11.6	-0.5	0.0	-1.6	2,319.2	177.5	3,415,020.5	1.3
11/20/2014 08:01	11.6	-0.5	0.0	-1.6	2,316.2	177.6	3,410,603.0	1.4
11/20/2014 08:02	11.6	-0.5	0.0	-1.6	2,319.6	177.4	3,415,609.5	1.5
11/20/2014 08:03	11.6	-0.5	0.0	-1.6	2,323.6	177.4	3,421,499.5	1.7
11/20/2014 08:04	11.6	-0.5	0.0	-1.6	2,317.3	177.6	3,412,222.7	1.8
11/20/2014 08:05	11.6	-0.5	0.0	-1.6	2,319.3	177.6	3,415,167.7	1.8
11/20/2014 08:06	11.6	-0.5	0.0	-1.6	2,323.2	177.6	3,420,910.5	1.6
11/20/2014 08:07	11.6	-0.5	0.0	-1.6	2,320.3	177.5	3,416,640.2	1.3
11/20/2014 08:08	11.6	-0.5	0.0	-1.6	2,320.0	177.2	3,416,198.5	1.3
11/20/2014 08:09	11.6	-0.5	0.0	-1.6	2,318.6	177.5	3,414,137.0	1.3
11/20/2014 08:10	11.6	-0.5	0.0	-1.6	2,320.8	177.3	3,417,376.5	1.3
11/20/2014 08:11	11.6	-0.5	0.0	-1.6	2,321.8	177.4	3,418,849.0	1.3
11/20/2014 08:12	11.6	-0.5	0.0	-1.6	2,320.4	177.4	3,416,787.5	1.3
11/20/2014 08:13	11.6	-0.5	0.0	-1.6	2,318.1	177.3	3,413,400.7	1.3
11/20/2014 08:14	11.6	-0.5	0.0	-1.6	2,318.8	177.2	3,414,431.5	1.3
11/20/2014 08:15	11.6	-0.5	0.0	-1.6	2,321.7	177.3	3,418,701.7	1.3
11/20/2014 08:16	11.6	-0.5	0.0	-1.6	2,317.9	177.2	3,413,106.2	1.5
11/20/2014 08:17	11.6	-0.5	0.0	-1.6	2,321.0	177.0	3,417,671.0	1.6
11/20/2014 08:18	11.6	-0.5	0.0	-1.6	2,317.5	177.1	3,412,517.2	1.8
11/20/2014 08:19	11.6	-0.5	0.0	-1.6	2,318.4	177.2	3,413,842.5	1.9
11/20/2014 08:20	11.6	-0.5	0.0	-1.6	2,318.6	177.3	3,414,137.0	1.8
11/20/2014 08:21	11.6	-0.5	0.0	-1.6	2,322.7	177.3	3,420,174.2	1.5
11/20/2014 08:22	11.6	-0.5	0.0	-1.6	2,321.9	177.3	3,418,996.2	1.3
11/20/2014 08:23	11.6	-0.5	0.0	-1.6	2,319.6	177.2	3,415,609.5	1.3
11/20/2014 08:24	11.6	-0.5	0.0	-1.6	2,321.3	177.3	3,418,112.7	1.3

RATA Data Report

CT2

R1 max

COLUSA GENERATING STATION

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:25	11.6	-0.5	0.0	-1.6	2,319.5	177.2	3,415,462.2	1.3
11/20/2014 08:26	11.6	-0.5	0.0	-1.6	2,321.8	177.0	3,418,849.0	1.3
11/20/2014 08:27	11.6	-0.5	0.0	-1.6	2,320.6	177.3	3,417,082.0	1.3
11/20/2014 08:28	11.6	-0.5	0.0	-1.6	2,322.1	177.2	3,419,290.7	1.3
11/20/2014 08:29	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.3
11/20/2014 08:30	11.6	-0.5	0.0	-1.6	2,319.6	177.2	3,415,609.5	1.3
11/20/2014 08:31	11.6	-0.5	0.0	-1.6	2,319.6	177.1	3,415,609.5	1.4
11/20/2014 08:32	11.6	-0.5	0.0	-1.6	2,319.5	177.1	3,415,462.2	1.6
11/20/2014 08:33	11.6	-0.5	0.0	-1.6	2,322.7	177.1	3,420,174.2	1.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	-0.5	0.0	-1.6	2,320.1	177.3	3,416,279.9	1.4

RATA Data Report 2

CT2

R1 max

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfm 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 07:56	0.0	-1.6	11.6	13.1	177.3	22,412.8	147.6	1.3
11/20/2014 07:57	0.0	-1.6	11.6	13.1	177.3	22,395.8	147.3	1.3
11/20/2014 07:58	0.0	-1.6	11.6	13.1	177.4	22,398.9	146.3	1.3
11/20/2014 07:59	0.0	-1.6	11.6	13.1	177.4	22,404.6	145.6	1.2
11/20/2014 08:00	0.0	-1.6	11.6	13.1	177.5	22,401.8	154.7	1.3
11/20/2014 08:01	0.0	-1.6	11.6	13.1	177.6	22,372.3	160.0	1.4
11/20/2014 08:02	0.0	-1.6	11.6	13.1	177.4	22,405.2	173.5	1.5
11/20/2014 08:03	0.0	-1.6	11.6	13.1	177.4	22,444.1	192.8	1.7
11/20/2014 08:04	0.0	-1.6	11.6	13.1	177.6	22,382.8	206.5	1.8
11/20/2014 08:05	0.0	-1.6	11.6	13.1	177.6	22,402.7	205.2	1.8
11/20/2014 08:06	0.0	-1.6	11.6	13.1	177.6	22,440.2	184.5	1.6
11/20/2014 08:07	0.0	-1.6	11.6	13.1	177.5	22,412.4	152.3	1.3
11/20/2014 08:08	0.0	-1.6	11.6	13.1	177.2	22,409.3	149.6	1.3
11/20/2014 08:09	0.0	-1.6	11.6	13.1	177.5	22,395.7	148.0	1.3
11/20/2014 08:10	0.0	-1.6	11.6	13.1	177.3	22,417.4	147.4	1.3
11/20/2014 08:11	0.0	-1.6	11.6	13.1	177.4	22,426.2	146.8	1.3
11/20/2014 08:12	0.0	-1.6	11.6	13.1	177.4	22,412.8	147.2	1.3
11/20/2014 08:13	0.0	-1.6	11.6	13.1	177.3	22,390.5	148.8	1.3
11/20/2014 08:14	0.0	-1.6	11.6	13.1	177.2	22,397.9	148.5	1.3
11/20/2014 08:15	0.0	-1.6	11.6	13.1	177.3	22,425.9	154.8	1.3
11/20/2014 08:16	0.0	-1.6	11.6	13.1	177.2	22,389.3	169.1	1.5
11/20/2014 08:17	0.0	-1.6	11.6	13.1	177.0	22,418.9	186.5	1.6
11/20/2014 08:18	0.0	-1.6	11.6	13.1	177.1	22,385.2	206.0	1.8
11/20/2014 08:19	0.0	-1.6	11.6	13.1	177.2	22,394.1	212.3	1.9
11/20/2014 08:20	0.0	-1.6	11.6	13.1	177.3	22,395.9	203.6	1.8
11/20/2014 08:21	0.0	-1.6	11.6	13.1	177.3	22,435.0	170.0	1.5
11/20/2014 08:22	0.0	-1.6	11.6	13.1	177.3	22,427.8	150.5	1.3
11/20/2014 08:23	0.0	-1.6	11.6	13.1	177.2	22,405.4	149.9	1.3
11/20/2014 08:24	0.0	-1.6	11.6	13.1	177.3	22,421.4	149.2	1.3

RATA Data Report 2

CT2

R1 max

COLUSA GENERATING STATION

From: 11/20/2014 07:56 **To:** 11/20/2014 08:33 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:25 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:25	0.0	-1.6	11.6	13.1	177.2	22,404.3	148.0	1.3
11/20/2014 08:26	0.0	-1.6	11.6	13.1	177.0	22,427.0	146.9	1.3
11/20/2014 08:27	0.0	-1.6	11.6	13.1	177.3	22,414.9	146.8	1.3
11/20/2014 08:28	0.0	-1.6	11.6	13.1	177.2	22,429.3	148.8	1.3
11/20/2014 08:29	0.0	-1.6	11.6	13.1	177.0	22,423.8	148.3	1.3
11/20/2014 08:30	0.0	-1.6	11.6	13.1	177.2	22,405.5	155.7	1.3
11/20/2014 08:31	0.0	-1.6	11.6	13.1	177.1	22,405.5	166.3	1.4
11/20/2014 08:32	0.0	-1.6	11.6	13.1	177.1	22,404.8	181.6	1.6
11/20/2014 08:33	0.0	-1.6	11.6	13.1	177.1	22,435.3	195.9	1.7
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.6	11.6	13.1	177.3	22,409.8	164.3	1.4

RATA Data Report

CT2

R2 max

COLUSA GENERATING STATION

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 08:46	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:47	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:48	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:49	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:50	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:51	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:52	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:53	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:54	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:55	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:56	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:57	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:58	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:59	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:00	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:01	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:02	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:03	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:04	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:05	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:06	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:07	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:08	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:09	11.6	2.0	1.3	0.005	11.6	8.9	11.8	13.1
11/20/2014 09:10	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:11	11.6	1.7	1.1	0.004	9.3	9.1	12.0	13.1
11/20/2014 09:12	11.6	1.5	1.0	0.004	9.3	9.1	12.0	13.1
11/20/2014 09:13	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:14	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1

RATA Data Report

CT2

R2 max

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 09:15	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:16	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:17	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:18	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:19	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:20	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:21	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:22	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:23	11.6	2.0	1.3	0.005	11.6	9.0	11.9	13.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	1.7	1.1	0.004	8.9	9.0	11.9	13.1

RATA Data Report

CT2

R2
MA

COLUSA GENERATING STATION

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION
Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:46	11.6	-0.5	0.0	-1.6	2,317.5	177.1	3,412,517.2	1.6
11/20/2014 08:47	11.6	-0.5	0.0	-1.6	2,320.0	177.1	3,416,198.5	1.6
11/20/2014 08:48	11.6	-0.5	0.0	-1.6	2,320.0	177.1	3,416,198.5	1.6
11/20/2014 08:49	11.6	-0.5	0.0	-1.6	2,317.2	177.0	3,412,075.5	1.4
11/20/2014 08:50	11.6	-0.5	0.0	-1.6	2,321.0	177.1	3,417,671.0	1.3
11/20/2014 08:51	11.6	-0.5	0.0	-1.6	2,318.6	177.0	3,414,137.0	1.3
11/20/2014 08:52	11.6	-0.5	0.0	-1.6	2,318.3	176.9	3,413,695.2	1.3
11/20/2014 08:53	11.6	-0.5	0.0	-1.6	2,319.3	176.8	3,415,167.7	1.2
11/20/2014 08:54	11.6	-0.5	0.0	-1.6	2,318.8	176.7	3,414,431.5	1.3
11/20/2014 08:55	11.6	-0.5	0.0	-1.6	2,317.9	176.6	3,413,106.2	1.3
11/20/2014 08:56	11.6	-0.5	0.0	-1.6	2,319.3	176.7	3,415,167.7	1.4
11/20/2014 08:57	11.6	-0.5	0.0	-1.6	2,318.0	176.7	3,413,253.5	1.5
11/20/2014 08:58	11.6	-0.5	0.0	-1.6	2,315.4	176.8	3,409,425.0	1.6
11/20/2014 08:59	11.6	-0.5	0.0	-1.6	2,321.0	176.7	3,417,671.0	1.6
11/20/2014 09:00	11.6	-0.5	0.0	-1.6	2,318.7	176.9	3,414,284.2	1.6
11/20/2014 09:01	11.6	-0.5	0.0	-1.6	2,317.6	176.8	3,412,664.5	1.4
11/20/2014 09:02	11.6	-0.5	0.0	-1.6	2,318.5	176.8	3,413,989.7	1.3
11/20/2014 09:03	11.6	-0.5	0.0	-1.6	2,318.5	176.9	3,413,989.7	1.3
11/20/2014 09:04	11.6	-0.5	0.0	-1.6	2,318.5	176.7	3,413,989.7	1.2
11/20/2014 09:05	11.6	-0.5	0.0	-1.6	2,316.3	176.8	3,410,750.2	1.2
11/20/2014 09:06	11.6	-0.5	0.0	-1.6	2,318.6	176.6	3,414,137.0	1.2
11/20/2014 09:07	11.6	-0.5	0.0	-1.6	2,318.0	176.7	3,413,253.5	1.4
11/20/2014 09:08	11.6	-0.5	0.0	-1.6	2,317.7	176.5	3,412,811.7	1.5
11/20/2014 09:09	11.6	-0.5	0.0	-1.6	2,317.5	176.6	3,412,517.2	1.6
11/20/2014 09:10	11.6	-0.5	0.0	-1.6	2,315.3	176.6	3,409,277.7	1.8
11/20/2014 09:11	11.6	-0.5	0.0	-1.6	2,315.8	176.6	3,410,014.0	1.9
11/20/2014 09:12	11.6	-0.5	0.0	-1.6	2,315.6	176.7	3,409,719.5	1.8
11/20/2014 09:13	11.6	-0.5	0.0	-1.6	2,317.0	176.9	3,411,781.0	1.5
11/20/2014 09:14	11.6	-0.5	0.0	-1.6	2,318.0	176.8	3,413,253.5	1.3

RATA Data Report

CT2

R2 max

COLUSA GENERATING STATION

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:15	11.6	-0.5	0.0	-1.6	2,319.5	176.8	3,415,462.2	1.3
11/20/2014 09:16	11.6	-0.5	0.0	-1.6	2,320.3	176.5	3,416,640.2	1.3
11/20/2014 09:17	11.6	-0.5	0.0	-1.6	2,319.8	176.5	3,415,904.0	1.3
11/20/2014 09:18	11.6	-0.5	0.0	-1.6	2,320.1	176.5	3,416,345.7	1.3
11/20/2014 09:19	11.6	-0.5	0.0	-1.6	2,320.5	176.6	3,416,934.7	1.3
11/20/2014 09:20	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.3
11/20/2014 09:21	11.6	-0.5	0.0	-1.6	2,319.6	176.7	3,415,609.5	1.3
11/20/2014 09:22	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.4
11/20/2014 09:23	11.6	-0.5	0.0	-1.6	2,323.0	176.6	3,420,616.0	1.6
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	-0.5	0.0	-1.6	2,318.6	176.7	3,414,133.1	1.4

RATA Data Report 2

CT2

R2 max

COLUSA GENERATING STATION

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 Gasflow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:46	0.0	-1.6	11.6	13.1	177.1	22,384.8	182.6	1.6
11/20/2014 08:47	0.0	-1.6	11.6	13.1	177.1	22,408.9	187.0	1.6
11/20/2014 08:48	0.0	-1.6	11.6	13.1	177.1	22,408.9	178.7	1.6
11/20/2014 08:49	0.0	-1.6	11.6	13.1	177.0	22,381.7	157.1	1.4
11/20/2014 08:50	0.0	-1.6	11.6	13.1	177.1	22,419.3	147.8	1.3
11/20/2014 08:51	0.0	-1.6	11.6	13.1	177.0	22,396.1	146.8	1.3
11/20/2014 08:52	0.0	-1.6	11.6	13.1	176.9	22,393.0	146.6	1.3
11/20/2014 08:53	0.0	-1.6	11.6	13.1	176.8	22,402.6	145.8	1.2
11/20/2014 08:54	0.0	-1.6	11.6	13.1	176.7	22,398.0	152.3	1.3
11/20/2014 08:55	0.0	-1.6	11.6	13.1	176.6	22,388.5	151.5	1.3
11/20/2014 08:56	0.0	-1.6	11.6	13.1	176.7	22,402.3	159.0	1.4
11/20/2014 08:57	0.0	-1.6	11.6	13.1	176.7	22,390.2	170.2	1.5
11/20/2014 08:58	0.0	-1.6	11.6	13.1	176.8	22,364.7	180.5	1.6
11/20/2014 08:59	0.0	-1.6	11.6	13.1	176.7	22,419.1	182.7	1.6
11/20/2014 09:00	0.0	-1.6	11.6	13.1	176.9	22,396.9	178.2	1.6
11/20/2014 09:01	0.0	-1.6	11.6	13.1	176.8	22,386.4	158.5	1.4
11/20/2014 09:02	0.0	-1.6	11.6	13.1	176.8	22,395.1	147.1	1.3
11/20/2014 09:03	0.0	-1.6	11.6	13.1	176.9	22,395.2	146.6	1.3
11/20/2014 09:04	0.0	-1.6	11.6	13.1	176.7	22,395.2	146.0	1.2
11/20/2014 09:05	0.0	-1.6	11.6	13.1	176.8	22,373.6	145.7	1.2
11/20/2014 09:06	0.0	-1.6	11.6	13.1	176.6	22,395.3	146.1	1.2
11/20/2014 09:07	0.0	-1.6	11.6	13.1	176.7	22,389.6	157.3	1.4
11/20/2014 09:08	0.0	-1.6	11.6	13.1	176.5	22,386.6	169.0	1.5
11/20/2014 09:09	0.0	-1.6	11.6	13.1	176.6	22,385.0	185.0	1.6
11/20/2014 09:10	0.0	-1.6	11.6	13.1	176.6	22,363.5	204.1	1.8
11/20/2014 09:11	0.0	-1.6	11.6	13.1	176.6	22,368.2	210.7	1.9
11/20/2014 09:12	0.0	-1.6	11.6	13.1	176.7	22,366.8	202.2	1.8
11/20/2014 09:13	0.0	-1.6	11.6	13.1	176.9	22,380.3	168.6	1.5
11/20/2014 09:14	0.0	-1.6	11.6	13.1	176.8	22,389.9	149.7	1.3

RATA Data Report 2

CT2

R2 max

COLUSA GENERATING STATION

From: 11/20/2014 08:46 **To:** 11/20/2014 09:23 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 10:23 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:15	0.0	-1.6	11.6	13.1	176.8	22,404.4	149.0	1.3
11/20/2014 09:16	0.0	-1.6	11.6	13.1	176.5	22,412.4	148.4	1.3
11/20/2014 09:17	0.0	-1.6	11.6	13.1	176.5	22,407.7	147.6	1.3
11/20/2014 09:18	0.0	-1.6	11.6	13.1	176.5	22,410.3	147.5	1.3
11/20/2014 09:19	0.0	-1.6	11.6	13.1	176.6	22,414.5	148.2	1.3
11/20/2014 09:20	0.0	-1.6	11.6	13.1	176.5	22,408.8	150.2	1.3
11/20/2014 09:21	0.0	-1.6	11.6	13.1	176.7	22,404.9	153.9	1.3
11/20/2014 09:22	0.0	-1.6	11.6	13.1	176.5	22,409.6	164.9	1.4
11/20/2014 09:23	0.0	-1.6	11.6	13.1	176.6	22,438.3	177.8	1.6
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.6	11.6	13.1	176.7	22,395.7	162.9	1.4

RATA Data Report

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:44 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 09:36	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:37	11.6	2.0	1.3	0.005	11.6	8.9	11.8	13.1
11/20/2014 09:38	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:39	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:40	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:41	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:42	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:43	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:44	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:45	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:46	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:47	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:48	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:49	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:50	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:51	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:52	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:53	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:54	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:55	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:56	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:57	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:58	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:59	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:00	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:01	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:02	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:03	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:04	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:44 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 10:05	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:06	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:07	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:08	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:09	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:10	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 10:11	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:12	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:13	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	1.6	1.0	0.004	8.6	8.9	11.8	13.1

RATA Data Report

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:43 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:36	11.6	-0.5	0.0	-1.6	2,318.8	176.5	3,414,431.5	1.4
11/20/2014 09:37	11.6	-0.5	0.0	-1.6	2,323.1	176.5	3,420,763.2	1.6
11/20/2014 09:38	11.6	-0.5	0.0	-1.6	2,321.8	176.3	3,418,849.0	1.7
11/20/2014 09:39	11.6	-0.5	0.0	-1.6	2,318.5	176.5	3,413,989.7	1.8
11/20/2014 09:40	11.6	-0.5	0.0	-1.6	2,321.0	176.4	3,417,671.0	1.8
11/20/2014 09:41	11.6	-0.5	0.0	-1.6	2,323.4	176.2	3,421,205.0	1.6
11/20/2014 09:42	11.6	-0.5	0.0	-1.6	2,319.7	176.3	3,415,756.7	1.3
11/20/2014 09:43	11.6	-0.5	0.0	-1.6	2,323.4	176.2	3,421,205.0	1.3
11/20/2014 09:44	11.6	-0.5	0.0	-1.7	2,324.1	176.3	3,422,235.7	1.3
11/20/2014 09:45	11.6	-0.5	0.0	-1.6	2,321.9	176.3	3,418,996.2	1.3
11/20/2014 09:46	11.6	-0.5	0.0	-1.6	2,322.1	176.3	3,419,290.7	1.3
11/20/2014 09:47	11.6	-0.5	0.0	-1.6	2,323.5	176.3	3,421,352.2	1.3
11/20/2014 09:48	11.6	-0.5	0.0	-1.6	2,322.2	176.3	3,419,438.0	1.3
11/20/2014 09:49	11.6	-0.5	0.0	-1.6	2,323.0	176.3	3,420,616.0	1.3
11/20/2014 09:50	11.6	-0.5	0.0	-1.6	2,320.7	176.2	3,417,229.2	1.4
11/20/2014 09:51	11.6	-0.5	0.0	-1.6	2,322.1	176.1	3,419,290.7	1.5
11/20/2014 09:52	11.6	-0.5	0.0	-1.7	2,324.8	176.1	3,423,266.5	1.7
11/20/2014 09:53	11.6	-0.5	0.0	-1.6	2,318.2	176.2	3,413,548.0	1.7
11/20/2014 09:54	11.6	-0.5	0.0	-1.6	2,320.3	176.1	3,416,640.2	1.7
11/20/2014 09:55	11.6	-0.5	0.0	-1.6	2,320.4	176.2	3,416,787.5	1.6
11/20/2014 09:56	11.6	-0.5	0.0	-1.6	2,320.4	176.2	3,416,787.5	1.3
11/20/2014 09:57	11.6	-0.5	0.0	-1.6	2,321.8	176.3	3,418,849.0	1.3
11/20/2014 09:58	11.6	-0.5	0.0	-1.6	2,320.6	176.5	3,417,082.0	1.3
11/20/2014 09:59	11.6	-0.5	0.0	-1.6	2,319.9	176.3	3,416,051.2	1.3
11/20/2014 10:00	11.6	-0.5	0.0	-1.6	2,320.4	176.7	3,416,787.5	1.3
11/20/2014 10:01	11.6	-0.5	0.0	-1.6	2,319.4	176.7	3,415,315.0	1.3
11/20/2014 10:02	11.6	-0.5	0.0	-1.6	2,320.6	176.7	3,417,082.0	1.3
11/20/2014 10:03	11.6	-0.5	0.0	-1.6	2,318.3	176.4	3,413,695.2	1.3
11/20/2014 10:04	11.6	-0.5	0.0	-1.6	2,317.0	176.2	3,411,781.0	1.4

RATA Data Report

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:43 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:05	11.6	-0.5	0.0	-1.6	2,316.1	176.1	3,410,455.7	1.5
11/20/2014 10:06	11.6	-0.5	0.0	-1.6	2,315.1	176.2	3,408,983.2	1.6
11/20/2014 10:07	11.6	-0.5	0.0	-1.6	2,317.1	176.1	3,411,928.2	1.7
11/20/2014 10:08	11.6	-0.5	0.0	-1.6	2,319.7	176.4	3,415,756.7	1.7
11/20/2014 10:09	11.6	-0.5	0.0	-1.6	2,319.7	176.7	3,415,756.7	1.7
11/20/2014 10:10	11.6	-0.5	0.0	-1.6	2,320.7	176.5	3,417,229.2	1.3
11/20/2014 10:11	11.6	-0.5	0.0	-1.6	2,319.7	176.6	3,415,756.7	1.3
11/20/2014 10:12	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.3
11/20/2014 10:13	11.6	-0.5	0.0	-1.6	2,316.9	176.8	3,411,633.7	1.3
Valid Data Points	38	38	38	38	38	38	38	38
Average:	11.6	-0.5	0.0	-1.6	2,320.4	176.4	3,416,834.0	1.5

RATA Data Report 2

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:43 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:36	0.0	-1.6	11.6	13.1	176.5	22,398.1	162.4	1.4
11/20/2014 09:37	0.0	-1.6	11.6	13.1	176.5	22,438.7	178.1	1.6
11/20/2014 09:38	0.0	-1.6	11.6	13.1	176.3	22,427.0	196.0	1.7
11/20/2014 09:39	0.0	-1.6	11.6	13.1	176.5	22,394.4	208.1	1.8
11/20/2014 09:40	0.0	-1.6	11.6	13.1	176.4	22,418.4	207.5	1.8
11/20/2014 09:41	0.0	-1.6	11.6	13.1	176.2	22,441.7	187.0	1.6
11/20/2014 09:42	0.0	-1.6	11.6	13.1	176.3	22,406.4	152.6	1.3
11/20/2014 09:43	0.0	-1.6	11.6	13.1	176.2	22,441.6	150.0	1.3
11/20/2014 09:44	0.0	-1.7	11.6	13.1	176.3	22,449.0	148.8	1.3
11/20/2014 09:45	0.0	-1.6	11.6	13.1	176.3	22,428.0	148.0	1.3
11/20/2014 09:46	0.0	-1.6	11.6	13.1	176.3	22,429.6	147.7	1.3
11/20/2014 09:47	0.0	-1.6	11.6	13.1	176.3	22,442.6	147.0	1.3
11/20/2014 09:48	0.0	-1.6	11.6	13.1	176.3	22,430.6	149.0	1.3
11/20/2014 09:49	0.0	-1.6	11.6	13.1	176.3	22,437.8	154.7	1.3
11/20/2014 09:50	0.0	-1.6	11.6	13.1	176.2	22,415.7	160.8	1.4
11/20/2014 09:51	0.0	-1.6	11.6	13.1	176.1	22,429.9	174.8	1.5
11/20/2014 09:52	0.0	-1.7	11.6	13.1	176.1	22,455.6	188.9	1.7
11/20/2014 09:53	0.0	-1.6	11.6	13.1	176.2	22,392.3	197.9	1.7
11/20/2014 09:54	0.0	-1.6	11.6	13.1	176.1	22,411.7	197.2	1.7
11/20/2014 09:55	0.0	-1.6	11.6	13.1	176.2	22,412.7	178.0	1.6
11/20/2014 09:56	0.0	-1.6	11.6	13.1	176.2	22,413.4	150.3	1.3
11/20/2014 09:57	0.0	-1.6	11.6	13.1	176.3	22,427.0	148.7	1.3
11/20/2014 09:58	0.0	-1.6	11.6	13.1	176.5	22,414.9	147.6	1.3
11/20/2014 09:59	0.0	-1.6	11.6	13.1	176.3	22,408.2	146.6	1.3
11/20/2014 10:00	0.0	-1.6	11.6	13.1	176.7	22,413.4	147.6	1.3
11/20/2014 10:01	0.0	-1.6	11.6	13.1	176.7	22,403.8	147.5	1.3
11/20/2014 10:02	0.0	-1.6	11.6	13.1	176.7	22,414.9	148.1	1.3
11/20/2014 10:03	0.0	-1.6	11.6	13.1	176.4	22,392.4	151.9	1.3
11/20/2014 10:04	0.0	-1.6	11.6	13.1	176.2	22,380.4	157.0	1.4

RATA Data Report 2

CT2

R3 max

COLUSA GENERATING STATION

From: 11/20/2014 09:36 **To:** 11/20/2014 10:13 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:43 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:05	0.0	-1.6	11.6	13.1	176.1	22,371.8	166.8	1.5
11/20/2014 10:06	0.0	-1.6	11.6	13.1	176.2	22,362.2	181.8	1.6
11/20/2014 10:07	0.0	-1.6	11.6	13.1	176.1	22,381.5	194.0	1.7
11/20/2014 10:08	0.0	-1.6	11.6	13.1	176.4	22,406.7	196.8	1.7
11/20/2014 10:09	0.0	-1.6	11.6	13.1	176.7	22,406.5	189.3	1.7
11/20/2014 10:10	0.0	-1.6	11.6	13.1	176.5	22,416.2	155.5	1.3
11/20/2014 10:11	0.0	-1.6	11.6	13.1	176.6	22,406.3	148.5	1.3
11/20/2014 10:12	0.0	-1.6	11.6	13.1	176.5	22,409.3	147.5	1.3
11/20/2014 10:13	0.0	-1.6	11.6	13.1	176.8	22,379.5	147.0	1.3
Valid Data Points	38	38	38	38	38	38	38	38
Average:	0.0	-1.6	11.6	13.1	176.4	22,413.4	166.0	1.5

RATA Data Report

CT2

R4

COLUSA GENERATING STATION

From: 11/20/2014 10:33 **To:** 11/20/2014 10:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:45 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 10:33	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 10:34	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 10:35	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:36	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:37	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:38	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:39	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:40	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:41	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:42	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:43	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:44	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:45	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:46	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:47	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:48	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:49	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:50	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:51	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:52	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:53	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:54	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:55	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.6	1.0	0.004	8.7	8.9	11.8	13.1

RATA Data Report

CT2

R4

COLUSA GENERATING STATION

From: 11/20/2014 10:33 **To:** 11/20/2014 10:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:45 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:33	11.6	-0.5	0.0	-1.7	2,323.9	176.9	3,421,941.2	1.7
11/20/2014 10:34	11.6	-0.5	0.0	-1.6	2,322.3	176.9	3,419,585.2	1.7
11/20/2014 10:35	11.6	-0.5	0.0	-1.6	2,320.4	176.8	3,416,787.5	1.6
11/20/2014 10:36	11.6	-0.5	0.0	-1.6	2,321.9	176.8	3,418,996.2	1.3
11/20/2014 10:37	11.6	-0.5	0.0	-1.6	2,323.2	176.7	3,420,910.5	1.3
11/20/2014 10:38	11.6	-0.5	0.0	-1.6	2,319.1	176.9	3,414,873.2	1.3
11/20/2014 10:39	11.6	-0.5	0.0	-1.6	2,319.9	176.9	3,416,051.2	1.3
11/20/2014 10:40	11.6	-0.5	0.0	-1.6	2,321.9	176.9	3,418,996.2	1.2
11/20/2014 10:41	11.6	-0.5	0.0	-1.6	2,321.0	176.9	3,417,671.0	1.3
11/20/2014 10:42	11.6	-0.5	0.0	-1.6	2,322.1	176.8	3,419,290.7	1.3
11/20/2014 10:43	11.6	-0.5	0.0	-1.6	2,320.5	176.8	3,416,934.7	1.3
11/20/2014 10:44	11.6	-0.5	0.0	-1.6	2,318.5	176.8	3,413,989.7	1.4
11/20/2014 10:45	11.6	-0.5	0.0	-1.6	2,319.4	176.8	3,415,315.0	1.5
11/20/2014 10:46	11.6	-0.5	0.0	-1.6	2,320.3	176.9	3,416,640.2	1.6
11/20/2014 10:47	11.6	-0.5	0.0	-1.6	2,319.2	176.9	3,415,020.5	1.7
11/20/2014 10:48	11.6	-0.5	0.0	-1.6	2,319.4	176.9	3,415,315.0	1.6
11/20/2014 10:49	11.6	-0.5	0.0	-1.6	2,320.2	177.0	3,416,493.0	1.3
11/20/2014 10:50	11.6	-0.5	0.0	-1.6	2,320.1	177.0	3,416,345.7	1.3
11/20/2014 10:51	11.6	-0.5	0.0	-1.6	2,321.8	176.9	3,418,849.0	1.2
11/20/2014 10:52	11.6	-0.5	0.0	-1.6	2,318.5	176.9	3,413,989.7	1.2
11/20/2014 10:53	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.2
11/20/2014 10:54	11.6	-0.5	0.0	-1.6	2,320.1	177.0	3,416,345.7	1.3
11/20/2014 10:55	11.6	-0.5	0.0	-1.6	2,323.0	177.1	3,420,616.0	1.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	-0.5	0.0	-1.6	2,320.8	176.9	3,417,363.7	1.4

RATA Data Report 2

CT2

RU

COLUSA GENERATING STATION

From: 11/20/2014 10:33 **To:** 11/20/2014 10:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:45 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:33	0.0	-1.7	11.6	13.1	176.9	22,447.1	192.5	1.7
11/20/2014 10:34	0.0	-1.6	11.6	13.1	176.9	22,431.5	193.9	1.7
11/20/2014 10:35	0.0	-1.6	11.6	13.1	176.8	22,413.2	178.1	1.6
11/20/2014 10:36	0.0	-1.6	11.6	13.1	176.8	22,427.5	150.0	1.3
11/20/2014 10:37	0.0	-1.6	11.6	13.1	176.7	22,440.3	147.6	1.3
11/20/2014 10:38	0.0	-1.6	11.6	13.1	176.9	22,400.9	147.1	1.3
11/20/2014 10:39	0.0	-1.6	11.6	13.1	176.9	22,408.0	146.5	1.3
11/20/2014 10:40	0.0	-1.6	11.6	13.1	176.9	22,427.9	145.9	1.2
11/20/2014 10:41	0.0	-1.6	11.6	13.1	176.9	22,419.2	147.4	1.3
11/20/2014 10:42	0.0	-1.6	11.6	13.1	176.8	22,429.7	149.0	1.3
11/20/2014 10:43	0.0	-1.6	11.6	13.1	176.8	22,414.3	153.7	1.3
11/20/2014 10:44	0.0	-1.6	11.6	13.1	176.8	22,395.2	165.2	1.4
11/20/2014 10:45	0.0	-1.6	11.6	13.1	176.8	22,403.9	174.7	1.5
11/20/2014 10:46	0.0	-1.6	11.6	13.1	176.9	22,411.8	185.3	1.6
11/20/2014 10:47	0.0	-1.6	11.6	13.1	176.9	22,401.4	187.7	1.7
11/20/2014 10:48	0.0	-1.6	11.6	13.1	176.9	22,403.9	180.5	1.6
11/20/2014 10:49	0.0	-1.6	11.6	13.1	177.0	22,411.1	153.0	1.3
11/20/2014 10:50	0.0	-1.6	11.6	13.1	177.0	22,410.4	147.8	1.3
11/20/2014 10:51	0.0	-1.6	11.6	13.1	176.9	22,426.4	146.4	1.2
11/20/2014 10:52	0.0	-1.6	11.6	13.1	176.9	22,394.5	146.0	1.2
11/20/2014 10:53	0.0	-1.6	11.6	13.1	177.0	22,424.0	145.4	1.2
11/20/2014 10:54	0.0	-1.6	11.6	13.1	177.0	22,410.5	146.4	1.3
11/20/2014 10:55	0.0	-1.6	11.6	13.1	177.1	22,438.6	147.7	1.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.0	-1.6	11.6	13.1	176.9	22,417.0	159.9	1.4

RATA Data Report

CT2

R5

COLUSA GENERATING STATION

From: 11/20/2014 11:06 **To:** 11/20/2014 11:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:46 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 11:06	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:07	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:08	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:09	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:10	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:11	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:12	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:13	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:14	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:15	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:16	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:17	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:18	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:19	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:20	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:21	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:22	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:23	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:24	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:25	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:26	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:27	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:28	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.7	1.1	0.004	9.1	8.9	11.8	13.1

RATA Data Report

CT2

From: 11/20/2014 11:06 **To:** 11/20/2014 11:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:46 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:06	11.6	-0.5	0.0	-1.6	2,320.0	177.0	3,416,198.5	1.3
11/20/2014 11:07	11.6	-0.5	0.0	-1.6	2,322.6	176.9	3,420,027.0	1.2
11/20/2014 11:08	11.6	-0.5	0.0	-1.6	2,323.6	177.0	3,421,499.5	1.3
11/20/2014 11:09	11.6	-0.5	0.0	-1.6	2,322.0	176.9	3,419,143.5	1.3
11/20/2014 11:10	11.6	-0.5	0.0	-1.6	2,323.0	177.0	3,420,616.0	1.3
11/20/2014 11:11	11.6	-0.5	0.0	-1.6	2,321.3	177.2	3,418,112.7	1.4
11/20/2014 11:12	11.6	-0.5	0.0	-1.6	2,323.0	176.9	3,420,616.0	1.5
11/20/2014 11:13	11.6	-0.5	0.0	-1.6	2,320.6	176.9	3,417,082.0	1.6
11/20/2014 11:14	11.6	-0.5	0.0	-1.6	2,322.0	177.0	3,419,143.5	1.6
11/20/2014 11:15	11.6	-0.5	0.0	-1.6	2,321.8	177.0	3,418,849.0	1.5
11/20/2014 11:16	11.6	-0.5	0.0	-1.6	2,322.7	177.1	3,420,174.2	1.4
11/20/2014 11:17	11.6	-0.5	0.0	-1.6	2,320.8	177.1	3,417,376.5	1.3
11/20/2014 11:18	11.6	-0.5	0.0	-1.6	2,321.6	176.9	3,418,554.5	1.3
11/20/2014 11:19	11.6	-0.5	0.0	-1.6	2,320.9	177.0	3,417,523.7	1.2
11/20/2014 11:20	11.6	-0.5	0.0	-1.6	2,322.0	176.9	3,419,143.5	1.2
11/20/2014 11:21	11.6	-0.5	0.0	-1.6	2,323.5	177.0	3,421,352.2	1.3
11/20/2014 11:22	11.6	-0.5	0.0	-1.6	2,321.4	177.1	3,418,260.0	1.3
11/20/2014 11:23	11.6	-0.5	0.0	-1.6	2,321.1	177.2	3,417,818.2	1.4
11/20/2014 11:24	11.6	-0.5	0.0	-1.6	2,322.8	177.1	3,420,321.5	1.5
11/20/2014 11:25	11.6	-0.5	0.0	-1.6	2,321.1	177.1	3,417,818.2	1.6
11/20/2014 11:26	11.6	-0.5	0.0	-1.6	2,321.8	176.9	3,418,849.0	1.7
11/20/2014 11:27	11.6	-0.5	0.0	-1.6	2,323.6	177.0	3,421,499.5	1.7
11/20/2014 11:28	11.6	-0.5	0.0	-1.6	2,317.3	176.8	3,412,222.7	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	-0.5	0.0	-1.6	2,321.8	177.0	3,418,791.4	1.4

RATA Data Report 2

CT2

R5

COLUSA GENERATING STATION

From: 11/20/2014 11:06 **To:** 11/20/2014 11:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:46 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:06	0.0	-1.6	11.6	13.1	177.0	22,409.4	146.9	1.3
11/20/2014 11:07	0.0	-1.6	11.6	13.1	176.9	22,434.0	145.7	1.2
11/20/2014 11:08	0.0	-1.6	11.6	13.1	177.0	22,443.6	147.3	1.3
11/20/2014 11:09	0.0	-1.6	11.6	13.1	176.9	22,428.3	148.2	1.3
11/20/2014 11:10	0.0	-1.6	11.6	13.1	177.0	22,437.9	153.3	1.3
11/20/2014 11:11	0.0	-1.6	11.6	13.1	177.2	22,421.9	158.9	1.4
11/20/2014 11:12	0.0	-1.6	11.6	13.1	176.9	22,438.1	169.0	1.5
11/20/2014 11:13	0.0	-1.6	11.6	13.1	176.9	22,415.0	178.5	1.6
11/20/2014 11:14	0.0	-1.6	11.6	13.1	177.0	22,428.6	182.8	1.6
11/20/2014 11:15	0.0	-1.6	11.6	13.1	177.0	22,426.9	177.4	1.5
11/20/2014 11:16	0.0	-1.6	11.6	13.1	177.1	22,435.0	159.6	1.4
11/20/2014 11:17	0.0	-1.6	11.6	13.1	177.1	22,417.3	146.6	1.3
11/20/2014 11:18	0.0	-1.6	11.6	13.1	176.9	22,425.1	146.6	1.3
11/20/2014 11:19	0.0	-1.6	11.6	13.1	177.0	22,418.0	145.7	1.2
11/20/2014 11:20	0.0	-1.6	11.6	13.1	176.9	22,429.0	144.9	1.2
11/20/2014 11:21	0.0	-1.6	11.6	13.1	177.0	22,443.5	146.3	1.3
11/20/2014 11:22	0.0	-1.6	11.6	13.1	177.1	22,422.6	151.3	1.3
11/20/2014 11:23	0.0	-1.6	11.6	13.1	177.2	22,420.1	159.0	1.4
11/20/2014 11:24	0.0	-1.6	11.6	13.1	177.1	22,436.3	169.7	1.5
11/20/2014 11:25	0.0	-1.6	11.6	13.1	177.1	22,420.1	184.4	1.6
11/20/2014 11:26	0.0	-1.6	11.6	13.1	176.9	22,426.8	193.3	1.7
11/20/2014 11:27	0.0	-1.6	11.6	13.1	177.0	22,443.6	194.1	1.7
11/20/2014 11:28	0.0	-1.6	11.6	13.1	176.8	22,383.5	172.1	1.5
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.0	-1.6	11.6	13.1	177.0	22,426.3	161.8	1.4

RATA Data Report

CT2

R6

COLUSA GENERATING STATION

From: 11/20/2014 11:36 **To:** 11/20/2014 11:58 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:47 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 11:36	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:37	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:38	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:39	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:40	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:41	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:42	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:43	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 11:44	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 11:45	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:46	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:47	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:48	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:49	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:50	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:51	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:52	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:53	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:54	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:55	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 11:56	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 11:57	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:58	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.7	1.1	0.004	8.8	8.9	11.8	13.1

RATA Data Report

CT2

R4

COLUSA GENERATING STATION

From: 11/20/2014 11:36 **To:** 11/20/2014 11:58 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:47 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:36	11.6	-0.5	0.0	-1.6	2,321.1	177.0	3,417,818.2	1.5
11/20/2014 11:37	11.6	-0.5	0.0	-1.6	2,320.4	177.2	3,416,787.5	1.6
11/20/2014 11:38	11.6	-0.5	0.0	-1.6	2,322.7	177.0	3,420,174.2	1.7
11/20/2014 11:39	11.6	-0.5	0.0	-1.7	2,323.8	177.1	3,421,794.0	1.7
11/20/2014 11:40	11.6	-0.5	0.0	-1.6	2,321.2	176.9	3,417,965.5	1.5
11/20/2014 11:41	11.6	-0.5	0.0	-1.6	2,322.2	177.0	3,419,438.0	1.3
11/20/2014 11:42	11.6	-0.5	0.0	-1.6	2,321.2	177.1	3,417,965.5	1.3
11/20/2014 11:43	11.6	-0.5	0.0	-1.6	2,323.2	177.0	3,420,910.5	1.2
11/20/2014 11:44	11.6	-0.5	0.0	-1.6	2,322.6	177.1	3,420,027.0	1.2
11/20/2014 11:45	11.6	-0.5	0.0	-1.6	2,322.7	176.9	3,420,174.2	1.2
11/20/2014 11:46	11.6	-0.5	0.0	-1.7	2,324.1	176.9	3,422,235.7	1.3
11/20/2014 11:47	11.6	-0.5	0.0	-1.6	2,320.7	176.9	3,417,229.2	1.3
11/20/2014 11:48	11.6	-0.5	0.0	-1.6	2,320.8	176.8	3,417,376.5	1.3
11/20/2014 11:49	11.6	-0.5	0.0	-1.6	2,321.9	176.9	3,418,996.2	1.4
11/20/2014 11:50	11.6	-0.5	0.0	-1.6	2,319.7	176.8	3,415,756.7	1.5
11/20/2014 11:51	11.6	-0.5	0.0	-1.6	2,322.4	176.9	3,419,732.5	1.6
11/20/2014 11:52	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.6
11/20/2014 11:53	11.6	-0.5	0.0	-1.6	2,323.5	176.9	3,421,352.2	1.5
11/20/2014 11:54	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 11:55	11.6	-0.5	0.0	-1.6	2,323.0	176.7	3,420,616.0	1.2
11/20/2014 11:56	11.6	-0.5	0.0	-1.6	2,320.5	176.8	3,416,934.7	1.2
11/20/2014 11:57	11.6	-0.5	0.0	-1.6	2,321.1	176.9	3,417,818.2	1.2
11/20/2014 11:58	11.6	-0.5	0.0	-1.6	2,320.2	176.8	3,416,493.0	1.2
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	-0.5	0.0	-1.6	2,321.8	176.9	3,418,900.2	1.4

RATA Data Report 2

CT2

From: 11/20/2014 11:36 **To:** 11/20/2014 11:58 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 12:47 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:36	0.0	-1.6	11.6	13.1	177.0	22,420.3	167.6	1.5
11/20/2014 11:37	0.0	-1.6	11.6	13.1	177.2	22,413.0	182.5	1.6
11/20/2014 11:38	0.0	-1.6	11.6	13.1	177.0	22,435.6	191.3	1.7
11/20/2014 11:39	0.0	-1.7	11.6	13.1	177.1	22,445.9	191.6	1.7
11/20/2014 11:40	0.0	-1.6	11.6	13.1	176.9	22,421.2	170.4	1.5
11/20/2014 11:41	0.0	-1.6	11.6	13.1	177.0	22,430.7	149.0	1.3
11/20/2014 11:42	0.0	-1.6	11.6	13.1	177.1	22,421.1	147.8	1.3
11/20/2014 11:43	0.0	-1.6	11.6	13.1	177.0	22,440.4	146.4	1.2
11/20/2014 11:44	0.0	-1.6	11.6	13.1	177.1	22,434.7	146.5	1.2
11/20/2014 11:45	0.0	-1.6	11.6	13.1	176.9	22,435.0	146.1	1.2
11/20/2014 11:46	0.0	-1.7	11.6	13.1	176.9	22,448.5	147.1	1.3
11/20/2014 11:47	0.0	-1.6	11.6	13.1	176.9	22,415.8	151.2	1.3
11/20/2014 11:48	0.0	-1.6	11.6	13.1	176.8	22,416.6	154.8	1.3
11/20/2014 11:49	0.0	-1.6	11.6	13.1	176.9	22,427.1	160.7	1.4
11/20/2014 11:50	0.0	-1.6	11.6	13.1	176.8	22,406.3	171.6	1.5
11/20/2014 11:51	0.0	-1.6	11.6	13.1	176.9	22,432.8	181.6	1.6
11/20/2014 11:52	0.0	-1.6	11.6	13.1	176.7	22,425.0	181.5	1.6
11/20/2014 11:53	0.0	-1.6	11.6	13.1	176.9	22,443.5	173.8	1.5
11/20/2014 11:54	0.0	-1.6	11.6	13.1	176.7	22,425.0	152.4	1.3
11/20/2014 11:55	0.0	-1.6	11.6	13.1	176.7	22,438.6	146.2	1.2
11/20/2014 11:56	0.0	-1.6	11.6	13.1	176.8	22,413.8	145.9	1.2
11/20/2014 11:57	0.0	-1.6	11.6	13.1	176.9	22,419.5	145.9	1.2
11/20/2014 11:58	0.0	-1.6	11.6	13.1	176.8	22,410.9	145.0	1.2
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.0	-1.6	11.6	13.1	176.9	22,427.0	160.7	1.4

RATA Data Report

CT2

R7

COLUSA GENERATING STATION

From: 11/20/2014 12:06 **To:** 11/20/2014 12:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 12:06	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:07	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:08	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:09	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:10	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:11	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:12	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:13	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:14	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:15	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:16	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:17	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:18	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:19	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:20	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:21	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:22	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:23	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:24	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:25	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:26	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:27	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:28	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.6	1.0	0.004	8.5	8.9	11.8	13.1

RATA Data Report

CT2

R7

COLUSA GENERATING STATION

From: 11/20/2014 12:06 **To:** 11/20/2014 12:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:06	11.6	-0.5	0.0	-1.7	2,325.1	177.2	3,423,708.2	1.5
11/20/2014 12:07	11.6	-0.5	0.0	-1.7	2,324.2	177.1	3,422,383.0	1.3
11/20/2014 12:08	11.6	-0.5	0.0	-1.7	2,324.0	176.9	3,422,088.5	1.3
11/20/2014 12:09	11.6	-0.5	0.0	-1.6	2,323.0	176.8	3,420,616.0	1.2
11/20/2014 12:10	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 12:11	11.6	-0.5	0.0	-1.6	2,320.6	176.8	3,417,082.0	1.2
11/20/2014 12:12	11.6	-0.5	0.0	-1.6	2,322.5	176.7	3,419,879.7	1.3
11/20/2014 12:13	11.6	-0.5	0.0	-1.6	2,318.4	176.9	3,413,842.5	1.2
11/20/2014 12:14	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 12:15	11.6	-0.5	0.0	-1.6	2,321.6	176.9	3,418,554.5	1.3
11/20/2014 12:16	11.6	-0.5	0.0	-1.6	2,322.9	176.8	3,420,468.7	1.4
11/20/2014 12:17	11.6	-0.5	0.0	-1.6	2,318.8	177.2	3,414,431.5	1.5
11/20/2014 12:18	11.6	-0.5	0.0	-1.7	2,323.8	176.8	3,421,794.0	1.7
11/20/2014 12:19	11.6	-0.5	0.0	-1.6	2,321.1	176.9	3,417,818.2	1.7
11/20/2014 12:20	11.6	-0.5	0.0	-1.7	2,324.5	177.0	3,422,824.7	1.6
11/20/2014 12:21	11.6	-0.5	0.0	-1.6	2,321.7	176.9	3,418,701.7	1.4
11/20/2014 12:22	11.6	-0.5	0.0	-1.7	2,324.5	176.8	3,422,824.7	1.3
11/20/2014 12:23	11.6	-0.5	0.0	-1.7	2,325.0	177.0	3,423,561.0	1.3
11/20/2014 12:24	11.6	-0.5	0.0	-1.6	2,323.4	176.9	3,421,205.0	1.3
11/20/2014 12:25	11.6	-0.5	0.0	-1.7	2,324.5	176.9	3,422,824.7	1.2
11/20/2014 12:26	11.6	-0.5	0.0	-1.6	2,322.6	176.7	3,420,027.0	1.2
11/20/2014 12:27	11.6	-0.5	0.0	-1.6	2,321.2	176.6	3,417,965.5	1.2
11/20/2014 12:28	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	-0.5	0.0	-1.6	2,322.5	176.9	3,419,924.5	1.3

RATA Data Report 2

CT2

R2

COLUSA GENERATING STATION

From: 11/20/2014 12:06 **To:** 11/20/2014 12:28 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:08 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:06	0.0	-1.7	11.6	13.1	177.2	22,458.5	175.3	1.5
11/20/2014 12:07	0.0	-1.7	11.6	13.1	177.1	22,449.6	149.5	1.3
11/20/2014 12:08	0.0	-1.7	11.6	13.1	176.9	22,448.2	147.9	1.3
11/20/2014 12:09	0.0	-1.6	11.6	13.1	176.8	22,438.6	146.4	1.2
11/20/2014 12:10	0.0	-1.6	11.6	13.1	176.7	22,425.1	146.6	1.3
11/20/2014 12:11	0.0	-1.6	11.6	13.1	176.8	22,414.7	145.1	1.2
11/20/2014 12:12	0.0	-1.6	11.6	13.1	176.7	22,433.2	146.9	1.3
11/20/2014 12:13	0.0	-1.6	11.6	13.1	176.9	22,393.9	144.9	1.2
11/20/2014 12:14	0.0	-1.6	11.6	13.1	176.7	22,424.4	146.9	1.3
11/20/2014 12:15	0.0	-1.6	11.6	13.1	176.9	22,424.3	155.3	1.3
11/20/2014 12:16	0.0	-1.6	11.6	13.1	176.8	22,437.3	164.9	1.4
11/20/2014 12:17	0.0	-1.6	11.6	13.1	177.2	22,397.3	175.9	1.5
11/20/2014 12:18	0.0	-1.7	11.6	13.1	176.8	22,446.1	189.0	1.7
11/20/2014 12:19	0.0	-1.6	11.6	13.1	176.9	22,419.8	196.7	1.7
11/20/2014 12:20	0.0	-1.7	11.6	13.1	177.0	22,452.5	187.3	1.6
11/20/2014 12:21	0.0	-1.6	11.6	13.1	176.9	22,425.9	158.7	1.4
11/20/2014 12:22	0.0	-1.7	11.6	13.1	176.8	22,452.5	147.5	1.3
11/20/2014 12:23	0.0	-1.7	11.6	13.1	177.0	22,457.4	147.2	1.3
11/20/2014 12:24	0.0	-1.6	11.6	13.1	176.9	22,442.1	146.8	1.3
11/20/2014 12:25	0.0	-1.7	11.6	13.1	176.9	22,452.6	145.9	1.2
11/20/2014 12:26	0.0	-1.6	11.6	13.1	176.7	22,434.8	146.1	1.2
11/20/2014 12:27	0.0	-1.6	11.6	13.1	176.6	22,420.6	146.0	1.2
11/20/2014 12:28	0.0	-1.6	11.6	13.1	176.7	22,424.5	150.9	1.3
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.0	-1.6	11.6	13.1	176.9	22,433.6	156.9	1.3

RATA Data Report

CT2

From: 11/20/2014 12:50 **To:** 11/20/2014 13:12 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:51 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 12:50	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:51	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:52	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:53	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:54	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:55	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:56	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:57	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:58	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:59	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:00	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:01	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:02	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:03	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:04	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:05	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:06	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:07	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:08	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:09	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:10	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:11	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:12	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	1.7	1.1	0.004	8.9	8.9	11.7	13.1

RATA Data Report

CT2

R8

COLUSA GENERATING STATION

From: 11/20/2014 12:50 **To:** 11/20/2014 13:12 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:51 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:50	11.6	-0.5	0.0	-1.6	2,320.7	176.9	3,417,229.2	1.2
11/20/2014 12:51	11.6	-0.5	0.0	-1.7	2,323.8	176.8	3,421,794.0	1.2
11/20/2014 12:52	11.6	-0.5	0.0	-1.6	2,323.1	176.9	3,420,763.2	1.3
11/20/2014 12:53	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.3
11/20/2014 12:54	11.6	-0.5	0.0	-1.6	2,321.1	177.0	3,417,818.2	1.3
11/20/2014 12:55	11.6	-0.5	0.0	-1.6	2,318.3	176.9	3,413,695.2	1.3
11/20/2014 12:56	11.6	-0.5	0.0	-1.6	2,321.6	177.0	3,418,554.5	1.4
11/20/2014 12:57	11.6	-0.5	0.0	-1.6	2,323.2	177.0	3,420,910.5	1.5
11/20/2014 12:58	11.6	-0.5	0.0	-1.6	2,321.9	177.2	3,418,996.2	1.6
11/20/2014 12:59	11.6	-0.5	0.0	-1.6	2,320.7	177.1	3,417,229.2	1.7
11/20/2014 13:00	11.6	-0.5	0.0	-1.7	2,324.6	177.2	3,422,972.0	1.7
11/20/2014 13:01	11.6	-0.5	0.0	-1.6	2,320.1	177.1	3,416,345.7	1.5
11/20/2014 13:02	11.6	-0.5	0.0	-1.6	2,320.2	177.2	3,416,493.0	1.3
11/20/2014 13:03	11.6	-0.5	0.0	-1.6	2,321.2	177.2	3,417,965.5	1.3
11/20/2014 13:04	11.6	-0.5	0.0	-1.6	2,319.2	177.1	3,415,020.5	1.2
11/20/2014 13:05	11.6	-0.5	0.0	-1.6	2,319.7	177.0	3,415,756.7	1.2
11/20/2014 13:06	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.2
11/20/2014 13:07	11.6	-0.5	0.0	-1.6	2,320.2	177.2	3,416,493.0	1.3
11/20/2014 13:08	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.3
11/20/2014 13:09	11.6	-0.5	0.0	-1.6	2,319.1	177.1	3,414,873.2	1.3
11/20/2014 13:10	11.6	-0.5	0.0	-1.6	2,321.3	177.1	3,418,112.7	1.4
11/20/2014 13:11	11.6	-0.5	0.0	-1.6	2,319.2	177.1	3,415,020.5	1.5
11/20/2014 13:12	11.6	-0.5	0.0	-1.6	2,320.2	177.0	3,416,493.0	1.7
Valid Data Points	23	23	23	23	23	23	23	23
Average:	11.6	-0.5	0.0	-1.6	2,321.1	177.0	3,417,843.8	1.4

RATA Data Report 2

CT2

R8

COLUSA GENERATING STATION

From: 11/20/2014 12:50 **To:** 11/20/2014 13:12 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:51 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:50	0.0	-1.6	11.6	13.1	176.9	22,415.8	146.1	1.2
11/20/2014 12:51	0.0	-1.7	11.6	13.1	176.8	22,446.1	145.5	1.2
11/20/2014 12:52	0.0	-1.6	11.6	13.1	176.9	22,438.7	146.4	1.3
11/20/2014 12:53	0.0	-1.6	11.6	13.1	177.0	22,429.1	146.2	1.3
11/20/2014 12:54	0.0	-1.6	11.6	13.1	177.0	22,420.2	147.2	1.3
11/20/2014 12:55	0.0	-1.6	11.6	13.1	176.9	22,393.0	150.8	1.3
11/20/2014 12:56	0.0	-1.6	11.6	13.1	177.0	22,424.8	157.7	1.4
11/20/2014 12:57	0.0	-1.6	11.6	13.1	177.0	22,439.9	167.8	1.5
11/20/2014 12:58	0.0	-1.6	11.6	13.1	177.2	22,427.6	180.8	1.6
11/20/2014 12:59	0.0	-1.6	11.6	13.1	177.1	22,416.4	190.3	1.7
11/20/2014 13:00	0.0	-1.7	11.6	13.1	177.2	22,453.8	191.5	1.7
11/20/2014 13:01	0.0	-1.6	11.6	13.1	177.1	22,409.8	171.3	1.5
11/20/2014 13:02	0.0	-1.6	11.6	13.1	177.2	22,411.4	147.8	1.3
11/20/2014 13:03	0.0	-1.6	11.6	13.1	177.2	22,420.4	147.2	1.3
11/20/2014 13:04	0.0	-1.6	11.6	13.1	177.1	22,401.9	146.0	1.2
11/20/2014 13:05	0.0	-1.6	11.6	13.1	177.0	22,406.6	145.5	1.2
11/20/2014 13:06	0.0	-1.6	11.6	13.1	177.0	22,429.9	145.5	1.2
11/20/2014 13:07	0.0	-1.6	11.6	13.1	177.2	22,411.5	146.7	1.3
11/20/2014 13:08	0.0	-1.6	11.6	13.1	177.0	22,429.2	147.8	1.3
11/20/2014 13:09	0.0	-1.6	11.6	13.1	177.1	22,400.4	151.9	1.3
11/20/2014 13:10	0.0	-1.6	11.6	13.1	177.1	22,422.1	162.5	1.4
11/20/2014 13:11	0.0	-1.6	11.6	13.1	177.1	22,401.2	172.3	1.5
11/20/2014 13:12	0.0	-1.6	11.6	13.1	177.0	22,410.8	188.9	1.7
Valid Data Points	23	23	23	23	23	23	23	23
Average:	0.0	-1.6	11.6	13.1	177.0	22,420.0	158.4	1.4

RATA Data Report

CT2

R9

COLUSA GENERATING STATION

From: 11/20/2014 13:24 **To:** 11/20/2014 13:45 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:54 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 13:24	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:25	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:26	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:27	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:28	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:29	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:30	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:31	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:32	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:33	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:34	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:35	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:36	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:37	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:38	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:39	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:40	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:41	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:42	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:43	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:44	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:45	11.6	1.2	0.8	0.003	7.0	8.9	11.7	13.1
Valid Data Points	22	22	22	22	22	22	22	22
Average:	11.6	1.7	1.0	0.004	8.7	8.9	11.7	13.1

RATA Data Report

CT2

R9

COLUSA GENERATING STATION

From: 11/20/2014 13:24 **To:** 11/20/2014 13:45 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:54 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, Mwe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:24	11.6	-0.5	0.0	-1.6	2,321.0	176.8	3,417,671.0	1.3
11/20/2014 13:25	11.6	-0.5	0.0	-1.6	2,318.2	176.8	3,413,548.0	1.4
11/20/2014 13:26	11.6	-0.5	0.0	-1.6	2,322.3	176.8	3,419,585.2	1.5
11/20/2014 13:27	11.6	-0.5	0.0	-1.6	2,320.4	176.6	3,416,787.5	1.6
11/20/2014 13:28	11.6	-0.5	0.0	-1.6	2,323.0	176.8	3,420,616.0	1.7
11/20/2014 13:29	11.6	-0.5	0.0	-1.6	2,322.5	176.7	3,419,879.7	1.6
11/20/2014 13:30	11.6	-0.5	0.0	-1.6	2,318.7	176.7	3,414,284.2	1.3
11/20/2014 13:31	11.6	-0.5	0.0	-1.6	2,323.5	176.7	3,421,352.2	1.3
11/20/2014 13:32	11.6	-0.5	0.0	-1.6	2,322.4	176.6	3,419,732.5	1.2
11/20/2014 13:33	11.6	-0.5	0.0	-1.6	2,319.1	176.7	3,414,873.2	1.2
11/20/2014 13:34	11.6	-0.5	0.0	-1.6	2,321.8	176.8	3,418,849.0	1.2
11/20/2014 13:35	11.6	-0.5	0.0	-1.6	2,322.8	176.9	3,420,321.5	1.3
11/20/2014 13:36	11.6	-0.5	0.0	-1.6	2,323.6	176.7	3,421,499.5	1.3
11/20/2014 13:37	11.6	-0.5	0.0	-1.7	2,324.1	176.7	3,422,235.7	1.3
11/20/2014 13:38	11.6	-0.5	0.0	-1.6	2,320.2	176.9	3,416,493.0	1.3
11/20/2014 13:39	11.6	-0.5	0.0	-1.6	2,323.1	176.6	3,420,763.2	1.5
11/20/2014 13:40	11.6	-0.5	0.0	-1.6	2,321.4	176.7	3,418,260.0	1.6
11/20/2014 13:41	11.6	-0.5	0.0	-1.6	2,320.1	176.7	3,416,345.7	1.7
11/20/2014 13:42	11.6	-0.5	0.0	-1.6	2,321.1	176.6	3,417,818.2	1.7
11/20/2014 13:43	11.6	-0.5	0.0	-1.6	2,321.9	176.7	3,418,996.2	1.6
11/20/2014 13:44	11.6	-0.5	0.0	-1.6	2,320.4	176.7	3,416,787.5	1.3
11/20/2014 13:45	11.6	-0.5	0.0	-1.6	2,319.6	176.8	3,415,609.5	1.3
Valid Data Points	22	22	22	22	22	22	22	22
Average:	11.6	-0.5	0.0	-1.6	2,321.4	176.7	3,418,286.8	1.4

RATA Data Report 2

CT2

From: 11/20/2014 13:24 **To:** 11/20/2014 13:45 **Facility Name:** COLUSA GENERATING STATION

Generated: 11/20/2014 13:54 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:24	0.0	-1.6	11.6	13.1	176.8	22,418.6	154.6	1.3
11/20/2014 13:25	0.0	-1.6	11.6	13.1	176.8	22,392.1	165.7	1.4
11/20/2014 13:26	0.0	-1.6	11.6	13.1	176.8	22,431.5	174.4	1.5
11/20/2014 13:27	0.0	-1.6	11.6	13.1	176.6	22,413.1	184.0	1.6
11/20/2014 13:28	0.0	-1.6	11.6	13.1	176.8	22,437.8	189.8	1.7
11/20/2014 13:29	0.0	-1.6	11.6	13.1	176.7	22,433.2	181.4	1.6
11/20/2014 13:30	0.0	-1.6	11.6	13.1	176.7	22,397.1	153.4	1.3
11/20/2014 13:31	0.0	-1.6	11.6	13.1	176.7	22,442.9	147.5	1.3
11/20/2014 13:32	0.0	-1.6	11.6	13.1	176.6	22,432.5	146.0	1.2
11/20/2014 13:33	0.0	-1.6	11.6	13.1	176.7	22,400.5	146.0	1.2
11/20/2014 13:34	0.0	-1.6	11.6	13.1	176.8	22,426.8	145.0	1.2
11/20/2014 13:35	0.0	-1.6	11.6	13.1	176.9	22,436.2	146.2	1.3
11/20/2014 13:36	0.0	-1.6	11.6	13.1	176.7	22,443.6	146.3	1.3
11/20/2014 13:37	0.0	-1.7	11.6	13.1	176.7	22,448.5	146.5	1.3
11/20/2014 13:38	0.0	-1.6	11.6	13.1	176.9	22,411.6	155.6	1.3
11/20/2014 13:39	0.0	-1.6	11.6	13.1	176.6	22,439.6	169.5	1.5
11/20/2014 13:40	0.0	-1.6	11.6	13.1	176.7	22,422.7	181.6	1.6
11/20/2014 13:41	0.0	-1.6	11.6	13.1	176.7	22,410.2	194.2	1.7
11/20/2014 13:42	0.0	-1.6	11.6	13.1	176.6	22,419.8	197.5	1.7
11/20/2014 13:43	0.0	-1.6	11.6	13.1	176.7	22,427.9	184.1	1.6
11/20/2014 13:44	0.0	-1.6	11.6	13.1	176.7	22,413.5	152.3	1.3
11/20/2014 13:45	0.0	-1.6	11.6	13.1	176.8	22,405.5	147.7	1.3
Valid Data Points	22	22	22	22	22	22	22	22
Average:	0.0	-1.6	11.6	13.1	176.7	22,423.0	164.1	1.4

RATA Data Report

CT2

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 07:55	11.6	-0.5	0.0	-1.6	2,316.0	177.2	3,410,308.5	1.3
11/20/2014 07:56	11.6	-0.5	0.0	-1.6	2,320.4	177.3	3,416,787.5	1.3
11/20/2014 07:57	11.6	-0.5	0.0	-1.6	2,318.6	177.3	3,414,137.0	1.3
11/20/2014 07:58	11.6	-0.5	0.0	-1.6	2,318.9	177.4	3,414,578.7	1.3
11/20/2014 07:59	11.6	-0.5	0.0	-1.6	2,319.5	177.4	3,415,462.2	1.2
11/20/2014 08:00	11.6	-0.5	0.0	-1.6	2,319.2	177.5	3,415,020.5	1.3
11/20/2014 08:01	11.6	-0.5	0.0	-1.6	2,316.2	177.6	3,410,603.0	1.4
11/20/2014 08:02	11.6	-0.5	0.0	-1.6	2,319.6	177.4	3,415,609.5	1.5
11/20/2014 08:03	11.6	-0.5	0.0	-1.6	2,323.6	177.4	3,421,499.5	1.7
11/20/2014 08:04	11.6	-0.5	0.0	-1.6	2,317.3	177.6	3,412,222.7	1.8
11/20/2014 08:05	11.6	-0.5	0.0	-1.6	2,319.3	177.6	3,415,167.7	1.8
11/20/2014 08:06	11.6	-0.5	0.0	-1.6	2,323.2	177.6	3,420,910.5	1.6
11/20/2014 08:07	11.6	-0.5	0.0	-1.6	2,320.3	177.5	3,416,640.2	1.3
11/20/2014 08:08	11.6	-0.5	0.0	-1.6	2,320.0	177.2	3,416,198.5	1.3
11/20/2014 08:09	11.6	-0.5	0.0	-1.6	2,318.6	177.5	3,414,137.0	1.3
11/20/2014 08:10	11.6	-0.5	0.0	-1.6	2,320.8	177.3	3,417,376.5	1.3
11/20/2014 08:11	11.6	-0.5	0.0	-1.6	2,321.8	177.4	3,418,849.0	1.3
11/20/2014 08:12	11.6	-0.5	0.0	-1.6	2,320.4	177.4	3,416,787.5	1.3
11/20/2014 08:13	11.6	-0.5	0.0	-1.6	2,318.1	177.3	3,413,400.7	1.3
11/20/2014 08:14	11.6	-0.5	0.0	-1.6	2,318.8	177.2	3,414,431.5	1.3
11/20/2014 08:15	11.6	-0.5	0.0	-1.6	2,321.7	177.3	3,418,701.7	1.3
11/20/2014 08:16	11.6	-0.5	0.0	-1.6	2,317.9	177.2	3,413,106.2	1.5
11/20/2014 08:17	11.6	-0.5	0.0	-1.6	2,321.0	177.0	3,417,671.0	1.6
11/20/2014 08:18	11.6	-0.5	0.0	-1.6	2,317.5	177.1	3,412,517.2	1.8
11/20/2014 08:19	11.6	-0.5	0.0	-1.6	2,318.4	177.2	3,413,842.5	1.9
11/20/2014 08:20	11.6	-0.5	0.0	-1.6	2,318.6	177.3	3,414,137.0	1.8
11/20/2014 08:21	11.6	-0.5	0.0	-1.6	2,322.7	177.3	3,420,174.2	1.5
11/20/2014 08:22	11.6	-0.5	0.0	-1.6	2,321.9	177.3	3,418,996.2	1.3
11/20/2014 08:23	11.6	-0.5	0.0	-1.6	2,319.6	177.2	3,415,609.5	1.3

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:24	11.6	-0.5	0.0	-1.6	2,321.3	177.3	3,418,112.7	1.3
11/20/2014 08:25	11.6	-0.5	0.0	-1.6	2,319.5	177.2	3,415,462.2	1.3
11/20/2014 08:26	11.6	-0.5	0.0	-1.6	2,321.8	177.0	3,418,849.0	1.3
11/20/2014 08:27	11.6	-0.5	0.0	-1.6	2,320.6	177.3	3,417,082.0	1.3
11/20/2014 08:28	11.6	-0.5	0.0	-1.6	2,322.1	177.2	3,419,290.7	1.3
11/20/2014 08:29	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.3
11/20/2014 08:30	11.6	-0.5	0.0	-1.6	2,319.6	177.2	3,415,609.5	1.3
11/20/2014 08:31	11.6	-0.5	0.0	-1.6	2,319.6	177.1	3,415,609.5	1.4
11/20/2014 08:32	11.6	-0.5	0.0	-1.6	2,319.5	177.1	3,415,462.2	1.6
11/20/2014 08:33	11.6	-0.5	0.0	-1.6	2,322.7	177.1	3,420,174.2	1.7
11/20/2014 08:34	11.6	-0.5	0.0	-1.6	2,318.1	176.9	3,413,400.7	1.8
11/20/2014 08:35	11.6	-0.5	0.0	-1.6	2,318.1	177.0	3,413,400.7	1.7
11/20/2014 08:36	11.6	-0.5	0.0	-1.6	2,321.9	177.1	3,418,996.2	1.4
11/20/2014 08:37	11.6	-0.5	0.0	-1.6	2,320.0	177.0	3,416,198.5	1.3
11/20/2014 08:38	11.6	-0.5	0.0	-1.6	2,321.1	177.1	3,417,818.2	1.3
11/20/2014 08:39	11.6	-0.5	0.0	-1.6	2,319.9	176.9	3,416,051.2	1.3
11/20/2014 08:40	11.6	-0.5	0.0	-1.6	2,319.8	176.8	3,415,904.0	1.3
11/20/2014 08:41	11.6	-0.5	0.0	-1.6	2,319.8	177.1	3,415,904.0	1.3
11/20/2014 08:42	11.6	-0.5	0.0	-1.6	2,320.9	177.0	3,417,523.7	1.3
11/20/2014 08:43	11.6	-0.5	0.0	-1.6	2,320.8	177.1	3,417,376.5	1.4
11/20/2014 08:44	11.6	-0.5	0.0	-1.6	2,319.6	177.1	3,415,609.5	1.4
11/20/2014 08:45	11.6	-0.5	0.0	-1.6	2,321.8	177.2	3,418,849.0	1.5
11/20/2014 08:46	11.6	-0.5	0.0	-1.6	2,317.5	177.1	3,412,517.2	1.6
11/20/2014 08:47	11.6	-0.5	0.0	-1.6	2,320.0	177.1	3,416,198.5	1.6
11/20/2014 08:48	11.6	-0.5	0.0	-1.6	2,320.0	177.1	3,416,198.5	1.6
11/20/2014 08:49	11.6	-0.5	0.0	-1.6	2,317.2	177.0	3,412,075.5	1.4
11/20/2014 08:50	11.6	-0.5	0.0	-1.6	2,321.0	177.1	3,417,671.0	1.3
11/20/2014 08:51	11.6	-0.5	0.0	-1.6	2,318.6	177.0	3,414,137.0	1.3
11/20/2014 08:52	11.6	-0.5	0.0	-1.6	2,318.3	176.9	3,413,695.2	1.3
11/20/2014 08:53	11.6	-0.5	0.0	-1.6	2,319.3	176.8	3,415,167.7	1.2

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:54	11.6	-0.5	0.0	-1.6	2,318.8	176.7	3,414,431.5	1.3
11/20/2014 08:55	11.6	-0.5	0.0	-1.6	2,317.9	176.6	3,413,106.2	1.3
11/20/2014 08:56	11.6	-0.5	0.0	-1.6	2,319.3	176.7	3,415,167.7	1.4
11/20/2014 08:57	11.6	-0.5	0.0	-1.6	2,318.0	176.7	3,413,253.5	1.5
11/20/2014 08:58	11.6	-0.5	0.0	-1.6	2,315.4	176.8	3,409,425.0	1.6
11/20/2014 08:59	11.6	-0.5	0.0	-1.6	2,321.0	176.7	3,417,671.0	1.6
11/20/2014 09:00	11.6	-0.5	0.0	-1.6	2,318.7	176.9	3,414,284.2	1.6
11/20/2014 09:01	11.6	-0.5	0.0	-1.6	2,317.6	176.8	3,412,664.5	1.4
11/20/2014 09:02	11.6	-0.5	0.0	-1.6	2,318.5	176.8	3,413,989.7	1.3
11/20/2014 09:03	11.6	-0.5	0.0	-1.6	2,318.5	176.9	3,413,989.7	1.3
11/20/2014 09:04	11.6	-0.5	0.0	-1.6	2,318.5	176.7	3,413,989.7	1.2
11/20/2014 09:05	11.6	-0.5	0.0	-1.6	2,316.3	176.8	3,410,750.2	1.2
11/20/2014 09:06	11.6	-0.5	0.0	-1.6	2,318.6	176.6	3,414,137.0	1.2
11/20/2014 09:07	11.6	-0.5	0.0	-1.6	2,318.0	176.7	3,413,253.5	1.4
11/20/2014 09:08	11.6	-0.5	0.0	-1.6	2,317.7	176.5	3,412,811.7	1.5
11/20/2014 09:09	11.6	-0.5	0.0	-1.6	2,317.5	176.6	3,412,517.2	1.6
11/20/2014 09:10	11.6	-0.5	0.0	-1.6	2,315.3	176.6	3,409,277.7	1.8
11/20/2014 09:11	11.6	-0.5	0.0	-1.6	2,315.8	176.6	3,410,014.0	1.9
11/20/2014 09:12	11.6	-0.5	0.0	-1.6	2,315.6	176.7	3,409,719.5	1.8
11/20/2014 09:13	11.6	-0.5	0.0	-1.6	2,317.0	176.9	3,411,781.0	1.5
11/20/2014 09:14	11.6	-0.5	0.0	-1.6	2,318.0	176.8	3,413,253.5	1.3
11/20/2014 09:15	11.6	-0.5	0.0	-1.6	2,319.5	176.8	3,415,462.2	1.3
11/20/2014 09:16	11.6	-0.5	0.0	-1.6	2,320.3	176.5	3,416,640.2	1.3
11/20/2014 09:17	11.6	-0.5	0.0	-1.6	2,319.8	176.5	3,415,904.0	1.3
11/20/2014 09:18	11.6	-0.5	0.0	-1.6	2,320.1	176.5	3,416,345.7	1.3
11/20/2014 09:19	11.6	-0.5	0.0	-1.6	2,320.5	176.6	3,416,934.7	1.3
11/20/2014 09:20	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.3
11/20/2014 09:21	11.6	-0.5	0.0	-1.6	2,319.6	176.7	3,415,609.5	1.3
11/20/2014 09:22	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.4
11/20/2014 09:23	11.6	-0.5	0.0	-1.6	2,323.0	176.6	3,420,616.0	1.6

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:24	11.6	-0.5	0.0	-1.6	2,319.1	176.5	3,414,873.2	1.7
11/20/2014 09:25	11.6	-0.5	0.0	-1.6	2,319.2	176.5	3,415,020.5	1.9
11/20/2014 09:26	11.6	-0.5	0.0	-1.6	2,321.5	176.5	3,418,407.2	1.9
11/20/2014 09:27	11.6	-0.5	0.0	-1.6	2,319.2	176.6	3,415,020.5	1.6
11/20/2014 09:28	11.6	-0.5	0.0	-1.6	2,322.6	176.5	3,420,027.0	1.3
11/20/2014 09:29	11.6	-0.5	0.0	-1.6	2,317.5	176.5	3,412,517.2	1.3
11/20/2014 09:30	11.6	-0.5	0.0	-1.6	2,318.1	176.4	3,413,400.7	1.3
11/20/2014 09:31	11.6	-0.5	0.0	-1.6	2,320.1	176.5	3,416,345.7	1.3
11/20/2014 09:32	11.6	-0.5	0.0	-1.6	2,317.2	176.5	3,412,075.5	1.3
11/20/2014 09:33	11.6	-0.5	0.0	-1.6	2,322.2	176.5	3,419,438.0	1.3
11/20/2014 09:34	11.6	-0.5	0.0	-1.6	2,322.5	176.5	3,419,879.7	1.3
11/20/2014 09:35	11.6	-0.5	0.0	-1.6	2,318.6	176.4	3,414,137.0	1.3
11/20/2014 09:36	11.6	-0.5	0.0	-1.6	2,318.8	176.5	3,414,431.5	1.4
11/20/2014 09:37	11.6	-0.5	0.0	-1.6	2,323.1	176.5	3,420,763.2	1.6
11/20/2014 09:38	11.6	-0.5	0.0	-1.6	2,321.8	176.3	3,418,849.0	1.7
11/20/2014 09:39	11.6	-0.5	0.0	-1.6	2,318.5	176.5	3,413,989.7	1.8
11/20/2014 09:40	11.6	-0.5	0.0	-1.6	2,321.0	176.4	3,417,671.0	1.8
11/20/2014 09:41	11.6	-0.5	0.0	-1.6	2,323.4	176.2	3,421,205.0	1.6
11/20/2014 09:42	11.6	-0.5	0.0	-1.6	2,319.7	176.3	3,415,756.7	1.3
11/20/2014 09:43	11.6	-0.5	0.0	-1.6	2,323.4	176.2	3,421,205.0	1.3
11/20/2014 09:44	11.6	-0.5	0.0	-1.7	2,324.1	176.3	3,422,235.7	1.3
11/20/2014 09:45	11.6	-0.5	0.0	-1.6	2,321.9	176.3	3,418,996.2	1.3
11/20/2014 09:46	11.6	-0.5	0.0	-1.6	2,322.1	176.3	3,419,290.7	1.3
11/20/2014 09:47	11.6	-0.5	0.0	-1.6	2,323.5	176.3	3,421,352.2	1.3
11/20/2014 09:48	11.6	-0.5	0.0	-1.6	2,322.2	176.3	3,419,438.0	1.3
11/20/2014 09:49	11.6	-0.5	0.0	-1.6	2,323.0	176.3	3,420,616.0	1.3
11/20/2014 09:50	11.6	-0.5	0.0	-1.6	2,320.7	176.2	3,417,229.2	1.4
11/20/2014 09:51	11.6	-0.5	0.0	-1.6	2,322.1	176.1	3,419,290.7	1.5
11/20/2014 09:52	11.6	-0.5	0.0	-1.7	2,324.8	176.1	3,423,266.5	1.7
11/20/2014 09:53	11.6	-0.5	0.0	-1.6	2,318.2	176.2	3,413,548.0	1.7

RATA Data Report

CT2

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:54	11.6	-0.5	0.0	-1.6	2,320.3	176.1	3,416,640.2	1.7
11/20/2014 09:55	11.6	-0.5	0.0	-1.6	2,320.4	176.2	3,416,787.5	1.6
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	-0.5	0.0	-1.6	2,319.8	176.8	3,415,923.4	1.4

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 07:55	11.6	1.3	0.8	0.003	6.9	9.0	11.9	13.1
11/20/2014 07:56	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:57	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:58	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 07:59	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:00	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:01	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:02	11.6	2.0	1.3	0.005	11.6	9.0	11.9	13.1
11/20/2014 08:03	11.6	1.9	1.2	0.004	9.3	9.1	12.0	13.1
11/20/2014 08:04	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:05	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:06	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:07	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:08	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:09	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:10	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:11	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:12	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:13	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:14	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:15	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:16	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:17	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:18	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:19	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:20	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:21	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:22	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:23	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 08:24	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:25	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:26	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:27	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:28	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:29	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:30	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:31	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:32	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:33	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:34	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:35	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:36	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:37	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:38	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:39	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:40	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:41	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:42	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:43	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:44	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:45	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:46	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:47	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:48	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:49	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 08:50	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:51	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 08:52	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:53	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1

RATA Data Report
CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 08:54	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:55	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:56	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:57	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:58	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 08:59	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:00	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:01	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:02	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:03	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:04	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:05	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:06	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:07	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:08	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:09	11.6	2.0	1.3	0.005	11.6	8.9	11.8	13.1
11/20/2014 09:10	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:11	11.6	1.7	1.1	0.004	9.3	9.1	12.0	13.1
11/20/2014 09:12	11.6	1.5	1.0	0.004	9.3	9.1	12.0	13.1
11/20/2014 09:13	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:14	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:15	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:16	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:17	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:18	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:19	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:20	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:21	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:22	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:23	11.6	2.0	1.3	0.005	11.6	9.0	11.9	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 09:24	11.6	1.9	1.2	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:25	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:26	11.6	1.6	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 09:27	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:28	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:29	11.6	1.2	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:30	11.6	1.3	0.8	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:31	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 09:32	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:33	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:34	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:35	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:36	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:37	11.6	2.0	1.3	0.005	11.6	8.9	11.8	13.1
11/20/2014 09:38	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:39	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:40	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:41	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:42	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:43	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:44	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:45	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 09:46	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:47	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:48	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:49	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:50	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:51	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:52	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:53	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 09:54	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 09:55	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.6	1.0	0.004	8.8	9.0	11.9	13.1

RATA Data Report 2

CT2

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 07:55	0.0	-1.6	11.6	13.1	177.2	22,370.4	147.8	1.3
11/20/2014 07:56	0.0	-1.6	11.6	13.1	177.3	22,412.8	147.6	1.3
11/20/2014 07:57	0.0	-1.6	11.6	13.1	177.3	22,395.8	147.3	1.3
11/20/2014 07:58	0.0	-1.6	11.6	13.1	177.4	22,398.9	146.3	1.3
11/20/2014 07:59	0.0	-1.6	11.6	13.1	177.4	22,404.6	145.6	1.2
11/20/2014 08:00	0.0	-1.6	11.6	13.1	177.5	22,401.8	154.7	1.3
11/20/2014 08:01	0.0	-1.6	11.6	13.1	177.6	22,372.3	160.0	1.4
11/20/2014 08:02	0.0	-1.6	11.6	13.1	177.4	22,405.2	173.5	1.5
11/20/2014 08:03	0.0	-1.6	11.6	13.1	177.4	22,444.1	192.8	1.7
11/20/2014 08:04	0.0	-1.6	11.6	13.1	177.6	22,382.8	206.5	1.8
11/20/2014 08:05	0.0	-1.6	11.6	13.1	177.6	22,402.7	205.2	1.8
11/20/2014 08:06	0.0	-1.6	11.6	13.1	177.6	22,440.2	184.5	1.6
11/20/2014 08:07	0.0	-1.6	11.6	13.1	177.5	22,412.4	152.3	1.3
11/20/2014 08:08	0.0	-1.6	11.6	13.1	177.2	22,409.3	149.6	1.3
11/20/2014 08:09	0.0	-1.6	11.6	13.1	177.5	22,395.7	148.0	1.3
11/20/2014 08:10	0.0	-1.6	11.6	13.1	177.3	22,417.4	147.4	1.3
11/20/2014 08:11	0.0	-1.6	11.6	13.1	177.4	22,426.2	146.8	1.3
11/20/2014 08:12	0.0	-1.6	11.6	13.1	177.4	22,412.8	147.2	1.3
11/20/2014 08:13	0.0	-1.6	11.6	13.1	177.3	22,390.5	148.8	1.3
11/20/2014 08:14	0.0	-1.6	11.6	13.1	177.2	22,397.9	148.5	1.3
11/20/2014 08:15	0.0	-1.6	11.6	13.1	177.3	22,425.9	154.8	1.3
11/20/2014 08:16	0.0	-1.6	11.6	13.1	177.2	22,389.3	169.1	1.5
11/20/2014 08:17	0.0	-1.6	11.6	13.1	177.0	22,418.9	186.5	1.6
11/20/2014 08:18	0.0	-1.6	11.6	13.1	177.1	22,385.2	206.0	1.8
11/20/2014 08:19	0.0	-1.6	11.6	13.1	177.2	22,394.1	212.3	1.9
11/20/2014 08:20	0.0	-1.6	11.6	13.1	177.3	22,395.9	203.6	1.8
11/20/2014 08:21	0.0	-1.6	11.6	13.1	177.3	22,435.0	170.0	1.5
11/20/2014 08:22	0.0	-1.6	11.6	13.1	177.3	22,427.8	150.5	1.3
11/20/2014 08:23	0.0	-1.6	11.6	13.1	177.2	22,405.4	149.9	1.3

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:24	0.0	-1.6	11.6	13.1	177.3	22,421.4	149.2	1.3
11/20/2014 08:25	0.0	-1.6	11.6	13.1	177.2	22,404.3	148.0	1.3
11/20/2014 08:26	0.0	-1.6	11.6	13.1	177.0	22,427.0	146.9	1.3
11/20/2014 08:27	0.0	-1.6	11.6	13.1	177.3	22,414.9	146.8	1.3
11/20/2014 08:28	0.0	-1.6	11.6	13.1	177.2	22,429.3	148.8	1.3
11/20/2014 08:29	0.0	-1.6	11.6	13.1	177.0	22,423.8	148.3	1.3
11/20/2014 08:30	0.0	-1.6	11.6	13.1	177.2	22,405.5	155.7	1.3
11/20/2014 08:31	0.0	-1.6	11.6	13.1	177.1	22,405.5	166.3	1.4
11/20/2014 08:32	0.0	-1.6	11.6	13.1	177.1	22,404.8	181.6	1.6
11/20/2014 08:33	0.0	-1.6	11.6	13.1	177.1	22,435.3	195.9	1.7
11/20/2014 08:34	0.0	-1.6	11.6	13.1	176.9	22,390.5	199.8	1.8
11/20/2014 08:35	0.0	-1.6	11.6	13.1	177.0	22,391.2	191.0	1.7
11/20/2014 08:36	0.0	-1.6	11.6	13.1	177.1	22,427.2	165.3	1.4
11/20/2014 08:37	0.0	-1.6	11.6	13.1	177.0	22,409.7	148.7	1.3
11/20/2014 08:38	0.0	-1.6	11.6	13.1	177.1	22,420.0	148.4	1.3
11/20/2014 08:39	0.0	-1.6	11.6	13.1	176.9	22,408.7	147.7	1.3
11/20/2014 08:40	0.0	-1.6	11.6	13.1	176.8	22,407.3	147.2	1.3
11/20/2014 08:41	0.0	-1.6	11.6	13.1	177.1	22,407.3	146.5	1.3
11/20/2014 08:42	0.0	-1.6	11.6	13.1	177.0	22,418.3	151.0	1.3
11/20/2014 08:43	0.0	-1.6	11.6	13.1	177.1	22,416.8	157.7	1.4
11/20/2014 08:44	0.0	-1.6	11.6	13.1	177.1	22,405.7	162.5	1.4
11/20/2014 08:45	0.0	-1.6	11.6	13.1	177.2	22,426.4	173.1	1.5
11/20/2014 08:46	0.0	-1.6	11.6	13.1	177.1	22,384.8	182.6	1.6
11/20/2014 08:47	0.0	-1.6	11.6	13.1	177.1	22,408.9	187.0	1.6
11/20/2014 08:48	0.0	-1.6	11.6	13.1	177.1	22,408.9	178.7	1.6
11/20/2014 08:49	0.0	-1.6	11.6	13.1	177.0	22,381.7	157.1	1.4
11/20/2014 08:50	0.0	-1.6	11.6	13.1	177.1	22,419.3	147.8	1.3
11/20/2014 08:51	0.0	-1.6	11.6	13.1	177.0	22,396.1	146.8	1.3
11/20/2014 08:52	0.0	-1.6	11.6	13.1	176.9	22,393.0	146.6	1.3
11/20/2014 08:53	0.0	-1.6	11.6	13.1	176.8	22,402.6	145.8	1.2

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 08:54	0.0	-1.6	11.6	13.1	176.7	22,398.0	152.3	1.3
11/20/2014 08:55	0.0	-1.6	11.6	13.1	176.6	22,388.5	151.5	1.3
11/20/2014 08:56	0.0	-1.6	11.6	13.1	176.7	22,402.3	159.0	1.4
11/20/2014 08:57	0.0	-1.6	11.6	13.1	176.7	22,390.2	170.2	1.5
11/20/2014 08:58	0.0	-1.6	11.6	13.1	176.8	22,364.7	180.5	1.6
11/20/2014 08:59	0.0	-1.6	11.6	13.1	176.7	22,419.1	182.7	1.6
11/20/2014 09:00	0.0	-1.6	11.6	13.1	176.9	22,396.9	178.2	1.6
11/20/2014 09:01	0.0	-1.6	11.6	13.1	176.8	22,386.4	158.5	1.4
11/20/2014 09:02	0.0	-1.6	11.6	13.1	176.8	22,395.1	147.1	1.3
11/20/2014 09:03	0.0	-1.6	11.6	13.1	176.9	22,395.2	146.6	1.3
11/20/2014 09:04	0.0	-1.6	11.6	13.1	176.7	22,395.2	146.0	1.2
11/20/2014 09:05	0.0	-1.6	11.6	13.1	176.8	22,373.6	145.7	1.2
11/20/2014 09:06	0.0	-1.6	11.6	13.1	176.6	22,395.3	146.1	1.2
11/20/2014 09:07	0.0	-1.6	11.6	13.1	176.7	22,389.6	157.3	1.4
11/20/2014 09:08	0.0	-1.6	11.6	13.1	176.5	22,386.6	169.0	1.5
11/20/2014 09:09	0.0	-1.6	11.6	13.1	176.6	22,385.0	185.0	1.6
11/20/2014 09:10	0.0	-1.6	11.6	13.1	176.6	22,363.5	204.1	1.8
11/20/2014 09:11	0.0	-1.6	11.6	13.1	176.6	22,368.2	210.7	1.9
11/20/2014 09:12	0.0	-1.6	11.6	13.1	176.7	22,366.8	202.2	1.8
11/20/2014 09:13	0.0	-1.6	11.6	13.1	176.9	22,380.3	168.6	1.5
11/20/2014 09:14	0.0	-1.6	11.6	13.1	176.8	22,389.9	149.7	1.3
11/20/2014 09:15	0.0	-1.6	11.6	13.1	176.8	22,404.4	149.0	1.3
11/20/2014 09:16	0.0	-1.6	11.6	13.1	176.5	22,412.4	148.4	1.3
11/20/2014 09:17	0.0	-1.6	11.6	13.1	176.5	22,407.7	147.6	1.3
11/20/2014 09:18	0.0	-1.6	11.6	13.1	176.5	22,410.3	147.5	1.3
11/20/2014 09:19	0.0	-1.6	11.6	13.1	176.6	22,414.5	148.2	1.3
11/20/2014 09:20	0.0	-1.6	11.6	13.1	176.5	22,408.8	150.2	1.3
11/20/2014 09:21	0.0	-1.6	11.6	13.1	176.7	22,404.9	153.9	1.3
11/20/2014 09:22	0.0	-1.6	11.6	13.1	176.5	22,409.6	164.9	1.4
11/20/2014 09:23	0.0	-1.6	11.6	13.1	176.6	22,438.3	177.8	1.6

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:24	0.0	-1.6	11.6	13.1	176.5	22,400.5	197.4	1.7
11/20/2014 09:25	0.0	-1.6	11.6	13.1	176.5	22,401.4	209.2	1.9
11/20/2014 09:26	0.0	-1.6	11.6	13.1	176.5	22,424.0	210.2	1.9
11/20/2014 09:27	0.0	-1.6	11.6	13.1	176.6	22,401.6	184.6	1.6
11/20/2014 09:28	0.0	-1.6	11.6	13.1	176.5	22,434.3	152.1	1.3
11/20/2014 09:29	0.0	-1.6	11.6	13.1	176.5	22,384.7	149.8	1.3
11/20/2014 09:30	0.0	-1.6	11.6	13.1	176.4	22,391.3	148.8	1.3
11/20/2014 09:31	0.0	-1.6	11.6	13.1	176.5	22,410.6	147.8	1.3
11/20/2014 09:32	0.0	-1.6	11.6	13.1	176.5	22,381.9	147.8	1.3
11/20/2014 09:33	0.0	-1.6	11.6	13.1	176.5	22,430.6	147.0	1.3
11/20/2014 09:34	0.0	-1.6	11.6	13.1	176.5	22,433.0	147.8	1.3
11/20/2014 09:35	0.0	-1.6	11.6	13.1	176.4	22,396.1	155.8	1.3
11/20/2014 09:36	0.0	-1.6	11.6	13.1	176.5	22,398.1	162.4	1.4
11/20/2014 09:37	0.0	-1.6	11.6	13.1	176.5	22,438.7	178.1	1.6
11/20/2014 09:38	0.0	-1.6	11.6	13.1	176.3	22,427.0	196.0	1.7
11/20/2014 09:39	0.0	-1.6	11.6	13.1	176.5	22,394.4	208.1	1.8
11/20/2014 09:40	0.0	-1.6	11.6	13.1	176.4	22,418.4	207.5	1.8
11/20/2014 09:41	0.0	-1.6	11.6	13.1	176.2	22,441.7	187.0	1.6
11/20/2014 09:42	0.0	-1.6	11.6	13.1	176.3	22,406.4	152.6	1.3
11/20/2014 09:43	0.0	-1.6	11.6	13.1	176.2	22,441.6	150.0	1.3
11/20/2014 09:44	0.0	-1.7	11.6	13.1	176.3	22,449.0	148.8	1.3
11/20/2014 09:45	0.0	-1.6	11.6	13.1	176.3	22,428.0	148.0	1.3
11/20/2014 09:46	0.0	-1.6	11.6	13.1	176.3	22,429.6	147.7	1.3
11/20/2014 09:47	0.0	-1.6	11.6	13.1	176.3	22,442.6	147.0	1.3
11/20/2014 09:48	0.0	-1.6	11.6	13.1	176.3	22,430.6	149.0	1.3
11/20/2014 09:49	0.0	-1.6	11.6	13.1	176.3	22,437.8	154.7	1.3
11/20/2014 09:50	0.0	-1.6	11.6	13.1	176.2	22,415.7	160.8	1.4
11/20/2014 09:51	0.0	-1.6	11.6	13.1	176.1	22,429.9	174.8	1.5
11/20/2014 09:52	0.0	-1.7	11.6	13.1	176.1	22,455.6	188.9	1.7
11/20/2014 09:53	0.0	-1.6	11.6	13.1	176.2	22,392.3	197.9	1.7

RATA Data Report 2

CT2

From: 11/20/2014 07:55 **To:** 11/20/2014 09:55 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:48 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 09:54	0.0	-1.6	11.6	13.1	176.1	22,411.7	197.2	1.7
11/20/2014 09:55	0.0	-1.6	11.6	13.1	176.2	22,412.7	178.0	1.6
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.0	-1.6	11.6	13.1	176.8	22,407.4	164.9	1.4

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:00	0.0	-1.6	11.6	13.1	176.7	22,413.4	147.6	1.3
11/20/2014 10:01	0.0	-1.6	11.6	13.1	176.7	22,403.8	147.5	1.3
11/20/2014 10:02	0.0	-1.6	11.6	13.1	176.7	22,414.9	148.1	1.3
11/20/2014 10:03	0.0	-1.6	11.6	13.1	176.4	22,392.4	151.9	1.3
11/20/2014 10:04	0.0	-1.6	11.6	13.1	176.2	22,380.4	157.0	1.4
11/20/2014 10:05	0.0	-1.6	11.6	13.1	176.1	22,371.8	166.8	1.5
11/20/2014 10:06	0.0	-1.6	11.6	13.1	176.2	22,362.2	181.8	1.6
11/20/2014 10:07	0.0	-1.6	11.6	13.1	176.1	22,381.5	194.0	1.7
11/20/2014 10:08	0.0	-1.6	11.6	13.1	176.4	22,406.7	196.8	1.7
11/20/2014 10:09	0.0	-1.6	11.6	13.1	176.7	22,406.5	189.3	1.7
11/20/2014 10:10	0.0	-1.6	11.6	13.1	176.5	22,416.2	155.5	1.3
11/20/2014 10:11	0.0	-1.6	11.6	13.1	176.6	22,406.3	148.5	1.3
11/20/2014 10:12	0.0	-1.6	11.6	13.1	176.5	22,409.3	147.5	1.3
11/20/2014 10:13	0.0	-1.6	11.6	13.1	176.8	22,379.5	147.0	1.3
11/20/2014 10:14	0.0	-1.6	11.6	13.1	176.7	22,387.4	145.6	1.2
11/20/2014 10:15	0.0	-1.6	11.6	13.1	176.7	22,385.6	146.1	1.3
11/20/2014 10:16	0.0	-1.6	11.6	13.1	176.7	22,383.4	150.1	1.3
11/20/2014 10:17	0.0	-1.6	11.6	13.1	176.7	22,388.8	149.4	1.3
11/20/2014 10:18	0.0	-1.6	11.6	13.1	176.8	22,365.5	158.9	1.4
11/20/2014 10:19	0.0	-1.6	11.6	13.1	176.8	22,367.3	165.2	1.4
11/20/2014 10:20	0.0	-1.6	11.6	13.1	176.8	22,378.4	176.1	1.5
11/20/2014 10:21	0.0	-1.6	11.6	13.1	176.9	22,360.0	180.8	1.6
11/20/2014 10:22	0.0	-1.6	11.6	13.1	176.7	22,393.6	182.2	1.6
11/20/2014 10:23	0.0	-1.6	11.6	13.1	176.8	22,371.2	168.7	1.5
11/20/2014 10:24	0.0	-1.6	11.6	13.1	176.7	22,393.7	147.8	1.3
11/20/2014 10:25	0.0	-1.6	11.6	13.1	176.9	22,365.7	146.8	1.3
11/20/2014 10:26	0.0	-1.6	11.6	13.1	176.6	22,384.9	145.5	1.2
11/20/2014 10:27	0.0	-1.6	11.6	13.1	176.9	22,400.2	145.3	1.2
11/20/2014 10:28	0.0	-1.6	11.6	13.1	176.5	22,373.1	144.2	1.2

RATA Data Report 2

CT2

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:29	0.0	-1.6	11.6	13.1	176.7	22,382.1	152.8	1.3
11/20/2014 10:30	0.0	-1.6	11.6	13.1	176.7	22,393.5	157.5	1.4
11/20/2014 10:31	0.0	-1.6	11.6	13.1	176.7	22,434.3	167.3	1.5
11/20/2014 10:32	0.0	-1.6	11.6	13.1	176.7	22,393.5	183.6	1.6
11/20/2014 10:33	0.0	-1.7	11.6	13.1	176.9	22,447.1	192.5	1.7
11/20/2014 10:34	0.0	-1.6	11.6	13.1	176.9	22,431.5	193.9	1.7
11/20/2014 10:35	0.0	-1.6	11.6	13.1	176.8	22,413.2	178.1	1.6
11/20/2014 10:36	0.0	-1.6	11.6	13.1	176.8	22,427.5	150.0	1.3
11/20/2014 10:37	0.0	-1.6	11.6	13.1	176.7	22,440.3	147.6	1.3
11/20/2014 10:38	0.0	-1.6	11.6	13.1	176.9	22,400.9	147.1	1.3
11/20/2014 10:39	0.0	-1.6	11.6	13.1	176.9	22,408.0	146.5	1.3
11/20/2014 10:40	0.0	-1.6	11.6	13.1	176.9	22,427.9	145.9	1.2
11/20/2014 10:41	0.0	-1.6	11.6	13.1	176.9	22,419.2	147.4	1.3
11/20/2014 10:42	0.0	-1.6	11.6	13.1	176.8	22,429.7	149.0	1.3
11/20/2014 10:43	0.0	-1.6	11.6	13.1	176.8	22,414.3	153.7	1.3
11/20/2014 10:44	0.0	-1.6	11.6	13.1	176.8	22,395.2	165.2	1.4
11/20/2014 10:45	0.0	-1.6	11.6	13.1	176.8	22,403.9	174.7	1.5
11/20/2014 10:46	0.0	-1.6	11.6	13.1	176.9	22,411.8	185.3	1.6
11/20/2014 10:47	0.0	-1.6	11.6	13.1	176.9	22,401.4	187.7	1.7
11/20/2014 10:48	0.0	-1.6	11.6	13.1	176.9	22,403.9	180.5	1.6
11/20/2014 10:49	0.0	-1.6	11.6	13.1	177.0	22,411.1	153.0	1.3
11/20/2014 10:50	0.0	-1.6	11.6	13.1	177.0	22,410.4	147.8	1.3
11/20/2014 10:51	0.0	-1.6	11.6	13.1	176.9	22,426.4	146.4	1.2
11/20/2014 10:52	0.0	-1.6	11.6	13.1	176.9	22,394.5	146.0	1.2
11/20/2014 10:53	0.0	-1.6	11.6	13.1	177.0	22,424.0	145.4	1.2
11/20/2014 10:54	0.0	-1.6	11.6	13.1	177.0	22,410.5	146.4	1.3
11/20/2014 10:55	0.0	-1.6	11.6	13.1	177.1	22,438.6	147.7	1.3
11/20/2014 10:56	0.0	-1.6	11.6	13.1	177.0	22,438.5	151.6	1.3
11/20/2014 10:57	0.0	-1.7	11.6	13.1	177.0	22,448.1	162.5	1.4
11/20/2014 10:58	0.0	-1.6	11.6	13.1	177.0	22,421.1	175.7	1.5

RATA Data Report 2

CT2

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:59	0.0	-1.6	11.6	13.1	177.0	22,424.9	191.2	1.7
11/20/2014 11:00	0.0	-1.6	11.6	13.1	177.0	22,422.5	200.0	1.8
11/20/2014 11:01	0.0	-1.6	11.6	13.1	177.0	22,417.6	193.5	1.7
11/20/2014 11:02	0.0	-1.6	11.6	13.1	177.1	22,412.9	170.7	1.5
11/20/2014 11:03	0.0	-1.6	11.6	13.1	177.0	22,415.4	148.6	1.3
11/20/2014 11:04	0.0	-1.7	11.6	13.1	177.0	22,446.7	147.8	1.3
11/20/2014 11:05	0.0	-1.6	11.6	13.1	177.1	22,429.9	146.8	1.3
11/20/2014 11:06	0.0	-1.6	11.6	13.1	177.0	22,409.4	146.9	1.3
11/20/2014 11:07	0.0	-1.6	11.6	13.1	176.9	22,434.0	145.7	1.2
11/20/2014 11:08	0.0	-1.6	11.6	13.1	177.0	22,443.6	147.3	1.3
11/20/2014 11:09	0.0	-1.6	11.6	13.1	176.9	22,428.3	148.2	1.3
11/20/2014 11:10	0.0	-1.6	11.6	13.1	177.0	22,437.9	153.3	1.3
11/20/2014 11:11	0.0	-1.6	11.6	13.1	177.2	22,421.9	158.9	1.4
11/20/2014 11:12	0.0	-1.6	11.6	13.1	176.9	22,438.1	169.0	1.5
11/20/2014 11:13	0.0	-1.6	11.6	13.1	176.9	22,415.0	178.5	1.6
11/20/2014 11:14	0.0	-1.6	11.6	13.1	177.0	22,428.6	182.8	1.6
11/20/2014 11:15	0.0	-1.6	11.6	13.1	177.0	22,426.9	177.4	1.5
11/20/2014 11:16	0.0	-1.6	11.6	13.1	177.1	22,435.0	159.6	1.4
11/20/2014 11:17	0.0	-1.6	11.6	13.1	177.1	22,417.3	146.6	1.3
11/20/2014 11:18	0.0	-1.6	11.6	13.1	176.9	22,425.1	146.6	1.3
11/20/2014 11:19	0.0	-1.6	11.6	13.1	177.0	22,418.0	145.7	1.2
11/20/2014 11:20	0.0	-1.6	11.6	13.1	176.9	22,429.0	144.9	1.2
11/20/2014 11:21	0.0	-1.6	11.6	13.1	177.0	22,443.5	146.3	1.3
11/20/2014 11:22	0.0	-1.6	11.6	13.1	177.1	22,422.6	151.3	1.3
11/20/2014 11:23	0.0	-1.6	11.6	13.1	177.2	22,420.1	159.0	1.4
11/20/2014 11:24	0.0	-1.6	11.6	13.1	177.1	22,436.3	169.7	1.5
11/20/2014 11:25	0.0	-1.6	11.6	13.1	177.1	22,420.1	184.4	1.6
11/20/2014 11:26	0.0	-1.6	11.6	13.1	176.9	22,426.8	193.3	1.7
11/20/2014 11:27	0.0	-1.6	11.6	13.1	177.0	22,443.6	194.1	1.7
11/20/2014 11:28	0.0	-1.6	11.6	13.1	176.8	22,383.5	172.1	1.5

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:29	0.0	-1.6	11.6	13.1	176.9	22,420.4	149.1	1.3
11/20/2014 11:30	0.0	-1.6	11.6	13.1	176.7	22,408.3	146.8	1.3
11/20/2014 11:31	0.0	-1.6	11.6	13.1	176.7	22,388.3	146.6	1.3
11/20/2014 11:32	0.0	-1.6	11.6	13.1	176.8	22,426.8	145.5	1.2
11/20/2014 11:33	0.0	-1.6	11.6	13.1	176.9	22,413.0	146.7	1.3
11/20/2014 11:34	0.0	-1.6	11.6	13.1	176.9	22,421.1	150.4	1.3
11/20/2014 11:35	0.0	-1.6	11.6	13.1	177.2	22,428.3	157.0	1.4
11/20/2014 11:36	0.0	-1.6	11.6	13.1	177.0	22,420.3	167.6	1.5
11/20/2014 11:37	0.0	-1.6	11.6	13.1	177.2	22,413.0	182.5	1.6
11/20/2014 11:38	0.0	-1.6	11.6	13.1	177.0	22,435.6	191.3	1.7
11/20/2014 11:39	0.0	-1.7	11.6	13.1	177.1	22,445.9	191.6	1.7
11/20/2014 11:40	0.0	-1.6	11.6	13.1	176.9	22,421.2	170.4	1.5
11/20/2014 11:41	0.0	-1.6	11.6	13.1	177.0	22,430.7	149.0	1.3
11/20/2014 11:42	0.0	-1.6	11.6	13.1	177.1	22,421.1	147.8	1.3
11/20/2014 11:43	0.0	-1.6	11.6	13.1	177.0	22,440.4	146.4	1.2
11/20/2014 11:44	0.0	-1.6	11.6	13.1	177.1	22,434.7	146.5	1.2
11/20/2014 11:45	0.0	-1.6	11.6	13.1	176.9	22,435.0	146.1	1.2
11/20/2014 11:46	0.0	-1.7	11.6	13.1	176.9	22,448.5	147.1	1.3
11/20/2014 11:47	0.0	-1.6	11.6	13.1	176.9	22,415.8	151.2	1.3
11/20/2014 11:48	0.0	-1.6	11.6	13.1	176.8	22,416.6	154.8	1.3
11/20/2014 11:49	0.0	-1.6	11.6	13.1	176.9	22,427.1	160.7	1.4
11/20/2014 11:50	0.0	-1.6	11.6	13.1	176.8	22,406.3	171.6	1.5
11/20/2014 11:51	0.0	-1.6	11.6	13.1	176.9	22,432.8	181.6	1.6
11/20/2014 11:52	0.0	-1.6	11.6	13.1	176.7	22,425.0	181.5	1.6
11/20/2014 11:53	0.0	-1.6	11.6	13.1	176.9	22,443.5	173.8	1.5
11/20/2014 11:54	0.0	-1.6	11.6	13.1	176.7	22,425.0	152.4	1.3
11/20/2014 11:55	0.0	-1.6	11.6	13.1	176.7	22,438.6	146.2	1.2
11/20/2014 11:56	0.0	-1.6	11.6	13.1	176.8	22,413.8	145.9	1.2
11/20/2014 11:57	0.0	-1.6	11.6	13.1	176.9	22,419.5	145.9	1.2
11/20/2014 11:58	0.0	-1.6	11.6	13.1	176.8	22,410.9	145.0	1.2

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:59	0.0	-1.6	11.6	13.1	176.9	22,444.4	146.3	1.3
11/20/2014 12:00	0.0	-1.6	11.6	13.1	177.0	22,410.1	150.2	1.3
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.0	-1.6	11.6	13.1	176.9	22,414.1	160.5	1.4

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:00	11.6	-0.5	0.0	-1.6	2,320.4	176.7	3,416,787.5	1.3
11/20/2014 10:01	11.6	-0.5	0.0	-1.6	2,319.4	176.7	3,415,315.0	1.3
11/20/2014 10:02	11.6	-0.5	0.0	-1.6	2,320.6	176.7	3,417,082.0	1.3
11/20/2014 10:03	11.6	-0.5	0.0	-1.6	2,318.3	176.4	3,413,695.2	1.3
11/20/2014 10:04	11.6	-0.5	0.0	-1.6	2,317.0	176.2	3,411,781.0	1.4
11/20/2014 10:05	11.6	-0.5	0.0	-1.6	2,316.1	176.1	3,410,455.7	1.5
11/20/2014 10:06	11.6	-0.5	0.0	-1.6	2,315.1	176.2	3,408,983.2	1.6
11/20/2014 10:07	11.6	-0.5	0.0	-1.6	2,317.1	176.1	3,411,928.2	1.7
11/20/2014 10:08	11.6	-0.5	0.0	-1.6	2,319.7	176.4	3,415,756.7	1.7
11/20/2014 10:09	11.6	-0.5	0.0	-1.6	2,319.7	176.7	3,415,756.7	1.7
11/20/2014 10:10	11.6	-0.5	0.0	-1.6	2,320.7	176.5	3,417,229.2	1.3
11/20/2014 10:11	11.6	-0.5	0.0	-1.6	2,319.7	176.6	3,415,756.7	1.3
11/20/2014 10:12	11.6	-0.5	0.0	-1.6	2,320.0	176.5	3,416,198.5	1.3
11/20/2014 10:13	11.6	-0.5	0.0	-1.6	2,316.9	176.8	3,411,633.7	1.3
11/20/2014 10:14	11.6	-0.5	0.0	-1.6	2,317.7	176.7	3,412,811.7	1.2
11/20/2014 10:15	11.6	-0.5	0.0	-1.6	2,317.6	176.7	3,412,664.5	1.3
11/20/2014 10:16	11.6	-0.5	0.0	-1.6	2,317.3	176.7	3,412,222.7	1.3
11/20/2014 10:17	11.6	-0.5	0.0	-1.6	2,317.9	176.7	3,413,106.2	1.3
11/20/2014 10:18	11.6	-0.5	0.0	-1.6	2,315.5	176.8	3,409,572.2	1.4
11/20/2014 10:19	11.6	-0.5	0.0	-1.6	2,315.7	176.8	3,409,866.7	1.4
11/20/2014 10:20	11.6	-0.5	0.0	-1.6	2,316.8	176.8	3,411,486.5	1.5
11/20/2014 10:21	11.6	-0.5	0.0	-1.6	2,314.9	176.9	3,408,688.7	1.6
11/20/2014 10:22	11.6	-0.5	0.0	-1.6	2,318.4	176.7	3,413,842.5	1.6
11/20/2014 10:23	11.6	-0.5	0.0	-1.6	2,316.1	176.8	3,410,455.7	1.5
11/20/2014 10:24	11.6	-0.5	0.0	-1.6	2,318.4	176.7	3,413,842.5	1.3
11/20/2014 10:25	11.6	-0.5	0.0	-1.6	2,315.5	176.9	3,409,572.2	1.3
11/20/2014 10:26	11.6	-0.5	0.0	-1.6	2,317.5	176.6	3,412,517.2	1.2
11/20/2014 10:27	11.6	-0.5	0.0	-1.6	2,319.1	176.9	3,414,873.2	1.2
11/20/2014 10:28	11.6	-0.5	0.0	-1.6	2,316.3	176.5	3,410,750.2	1.2

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:29	11.6	-0.5	0.0	-1.6	2,317.2	176.7	3,412,075.5	1.3
11/20/2014 10:30	11.6	-0.5	0.0	-1.6	2,318.4	176.7	3,413,842.5	1.4
11/20/2014 10:31	11.6	-0.5	0.0	-1.6	2,322.6	176.7	3,420,027.0	1.5
11/20/2014 10:32	11.6	-0.5	0.0	-1.6	2,318.4	176.7	3,413,842.5	1.6
11/20/2014 10:33	11.6	-0.5	0.0	-1.7	2,323.9	176.9	3,421,941.2	1.7
11/20/2014 10:34	11.6	-0.5	0.0	-1.6	2,322.3	176.9	3,419,585.2	1.7
11/20/2014 10:35	11.6	-0.5	0.0	-1.6	2,320.4	176.8	3,416,787.5	1.6
11/20/2014 10:36	11.6	-0.5	0.0	-1.6	2,321.9	176.8	3,418,996.2	1.3
11/20/2014 10:37	11.6	-0.5	0.0	-1.6	2,323.2	176.7	3,420,910.5	1.3
11/20/2014 10:38	11.6	-0.5	0.0	-1.6	2,319.1	176.9	3,414,873.2	1.3
11/20/2014 10:39	11.6	-0.5	0.0	-1.6	2,319.9	176.9	3,416,051.2	1.3
11/20/2014 10:40	11.6	-0.5	0.0	-1.6	2,321.9	176.9	3,418,996.2	1.2
11/20/2014 10:41	11.6	-0.5	0.0	-1.6	2,321.0	176.9	3,417,671.0	1.3
11/20/2014 10:42	11.6	-0.5	0.0	-1.6	2,322.1	176.8	3,419,290.7	1.3
11/20/2014 10:43	11.6	-0.5	0.0	-1.6	2,320.5	176.8	3,416,934.7	1.3
11/20/2014 10:44	11.6	-0.5	0.0	-1.6	2,318.5	176.8	3,413,989.7	1.4
11/20/2014 10:45	11.6	-0.5	0.0	-1.6	2,319.4	176.8	3,415,315.0	1.5
11/20/2014 10:46	11.6	-0.5	0.0	-1.6	2,320.3	176.9	3,416,640.2	1.6
11/20/2014 10:47	11.6	-0.5	0.0	-1.6	2,319.2	176.9	3,415,020.5	1.7
11/20/2014 10:48	11.6	-0.5	0.0	-1.6	2,319.4	176.9	3,415,315.0	1.6
11/20/2014 10:49	11.6	-0.5	0.0	-1.6	2,320.2	177.0	3,416,493.0	1.3
11/20/2014 10:50	11.6	-0.5	0.0	-1.6	2,320.1	177.0	3,416,345.7	1.3
11/20/2014 10:51	11.6	-0.5	0.0	-1.6	2,321.8	176.9	3,418,849.0	1.2
11/20/2014 10:52	11.6	-0.5	0.0	-1.6	2,318.5	176.9	3,413,989.7	1.2
11/20/2014 10:53	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.2
11/20/2014 10:54	11.6	-0.5	0.0	-1.6	2,320.1	177.0	3,416,345.7	1.3
11/20/2014 10:55	11.6	-0.5	0.0	-1.6	2,323.0	177.1	3,420,616.0	1.3
11/20/2014 10:56	11.6	-0.5	0.0	-1.6	2,323.0	177.0	3,420,616.0	1.3
11/20/2014 10:57	11.6	-0.5	0.0	-1.7	2,324.0	177.0	3,422,088.5	1.4
11/20/2014 10:58	11.6	-0.5	0.0	-1.6	2,321.2	177.0	3,417,965.5	1.5

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 10:59	11.6	-0.5	0.0	-1.6	2,321.6	177.0	3,418,554.5	1.7
11/20/2014 11:00	11.6	-0.5	0.0	-1.6	2,321.4	177.0	3,418,260.0	1.8
11/20/2014 11:01	11.6	-0.5	0.0	-1.6	2,320.9	177.0	3,417,523.7	1.7
11/20/2014 11:02	11.6	-0.5	0.0	-1.6	2,320.4	177.1	3,416,787.5	1.5
11/20/2014 11:03	11.6	-0.5	0.0	-1.6	2,320.6	177.0	3,417,082.0	1.3
11/20/2014 11:04	11.6	-0.5	0.0	-1.7	2,323.9	177.0	3,421,941.2	1.3
11/20/2014 11:05	11.6	-0.5	0.0	-1.6	2,322.1	177.1	3,419,290.7	1.3
11/20/2014 11:06	11.6	-0.5	0.0	-1.6	2,320.0	177.0	3,416,198.5	1.3
11/20/2014 11:07	11.6	-0.5	0.0	-1.6	2,322.6	176.9	3,420,027.0	1.2
11/20/2014 11:08	11.6	-0.5	0.0	-1.6	2,323.6	177.0	3,421,499.5	1.3
11/20/2014 11:09	11.6	-0.5	0.0	-1.6	2,322.0	176.9	3,419,143.5	1.3
11/20/2014 11:10	11.6	-0.5	0.0	-1.6	2,323.0	177.0	3,420,616.0	1.3
11/20/2014 11:11	11.6	-0.5	0.0	-1.6	2,321.3	177.2	3,418,112.7	1.4
11/20/2014 11:12	11.6	-0.5	0.0	-1.6	2,323.0	176.9	3,420,616.0	1.5
11/20/2014 11:13	11.6	-0.5	0.0	-1.6	2,320.6	176.9	3,417,082.0	1.6
11/20/2014 11:14	11.6	-0.5	0.0	-1.6	2,322.0	177.0	3,419,143.5	1.6
11/20/2014 11:15	11.6	-0.5	0.0	-1.6	2,321.8	177.0	3,418,849.0	1.5
11/20/2014 11:16	11.6	-0.5	0.0	-1.6	2,322.7	177.1	3,420,174.2	1.4
11/20/2014 11:17	11.6	-0.5	0.0	-1.6	2,320.8	177.1	3,417,376.5	1.3
11/20/2014 11:18	11.6	-0.5	0.0	-1.6	2,321.6	176.9	3,418,554.5	1.3
11/20/2014 11:19	11.6	-0.5	0.0	-1.6	2,320.9	177.0	3,417,523.7	1.2
11/20/2014 11:20	11.6	-0.5	0.0	-1.6	2,322.0	176.9	3,419,143.5	1.2
11/20/2014 11:21	11.6	-0.5	0.0	-1.6	2,323.5	177.0	3,421,352.2	1.3
11/20/2014 11:22	11.6	-0.5	0.0	-1.6	2,321.4	177.1	3,418,260.0	1.3
11/20/2014 11:23	11.6	-0.5	0.0	-1.6	2,321.1	177.2	3,417,818.2	1.4
11/20/2014 11:24	11.6	-0.5	0.0	-1.6	2,322.8	177.1	3,420,321.5	1.5
11/20/2014 11:25	11.6	-0.5	0.0	-1.6	2,321.1	177.1	3,417,818.2	1.6
11/20/2014 11:26	11.6	-0.5	0.0	-1.6	2,321.8	176.9	3,418,849.0	1.7
11/20/2014 11:27	11.6	-0.5	0.0	-1.6	2,323.6	177.0	3,421,499.5	1.7
11/20/2014 11:28	11.6	-0.5	0.0	-1.6	2,317.3	176.8	3,412,222.7	1.5

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:29	11.6	-0.5	0.0	-1.6	2,321.2	176.9	3,417,965.5	1.3
11/20/2014 11:30	11.6	-0.5	0.0	-1.6	2,319.9	176.7	3,416,051.2	1.3
11/20/2014 11:31	11.6	-0.5	0.0	-1.6	2,317.8	176.7	3,412,959.0	1.3
11/20/2014 11:32	11.6	-0.5	0.0	-1.6	2,321.8	176.8	3,418,849.0	1.2
11/20/2014 11:33	11.6	-0.5	0.0	-1.6	2,320.4	176.9	3,416,787.5	1.3
11/20/2014 11:34	11.6	-0.5	0.0	-1.6	2,321.2	176.9	3,417,965.5	1.3
11/20/2014 11:35	11.6	-0.5	0.0	-1.6	2,322.0	177.2	3,419,143.5	1.4
11/20/2014 11:36	11.6	-0.5	0.0	-1.6	2,321.1	177.0	3,417,818.2	1.5
11/20/2014 11:37	11.6	-0.5	0.0	-1.6	2,320.4	177.2	3,416,787.5	1.6
11/20/2014 11:38	11.6	-0.5	0.0	-1.6	2,322.7	177.0	3,420,174.2	1.7
11/20/2014 11:39	11.6	-0.5	0.0	-1.7	2,323.8	177.1	3,421,794.0	1.7
11/20/2014 11:40	11.6	-0.5	0.0	-1.6	2,321.2	176.9	3,417,965.5	1.5
11/20/2014 11:41	11.6	-0.5	0.0	-1.6	2,322.2	177.0	3,419,438.0	1.3
11/20/2014 11:42	11.6	-0.5	0.0	-1.6	2,321.2	177.1	3,417,965.5	1.3
11/20/2014 11:43	11.6	-0.5	0.0	-1.6	2,323.2	177.0	3,420,910.5	1.2
11/20/2014 11:44	11.6	-0.5	0.0	-1.6	2,322.6	177.1	3,420,027.0	1.2
11/20/2014 11:45	11.6	-0.5	0.0	-1.6	2,322.7	176.9	3,420,174.2	1.2
11/20/2014 11:46	11.6	-0.5	0.0	-1.7	2,324.1	176.9	3,422,235.7	1.3
11/20/2014 11:47	11.6	-0.5	0.0	-1.6	2,320.7	176.9	3,417,229.2	1.3
11/20/2014 11:48	11.6	-0.5	0.0	-1.6	2,320.8	176.8	3,417,376.5	1.3
11/20/2014 11:49	11.6	-0.5	0.0	-1.6	2,321.9	176.9	3,418,996.2	1.4
11/20/2014 11:50	11.6	-0.5	0.0	-1.6	2,319.7	176.8	3,415,756.7	1.5
11/20/2014 11:51	11.6	-0.5	0.0	-1.6	2,322.4	176.9	3,419,732.5	1.6
11/20/2014 11:52	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.6
11/20/2014 11:53	11.6	-0.5	0.0	-1.6	2,323.5	176.9	3,421,352.2	1.5
11/20/2014 11:54	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 11:55	11.6	-0.5	0.0	-1.6	2,323.0	176.7	3,420,616.0	1.2
11/20/2014 11:56	11.6	-0.5	0.0	-1.6	2,320.5	176.8	3,416,934.7	1.2
11/20/2014 11:57	11.6	-0.5	0.0	-1.6	2,321.1	176.9	3,417,818.2	1.2
11/20/2014 11:58	11.6	-0.5	0.0	-1.6	2,320.2	176.8	3,416,493.0	1.2

RATA Data Report
CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 11:59	11.6	-0.5	0.0	-1.6	2,323.6	176.9	3,421,499.5	1.3
11/20/2014 12:00	11.6	-0.5	0.0	-1.6	2,320.1	177.0	3,416,345.7	1.3
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	-0.5	0.0	-1.6	2,320.5	176.9	3,416,928.6	1.4

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 10:00	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:01	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:02	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:03	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:04	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:05	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:06	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:07	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:08	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:09	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:10	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 10:11	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:12	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:13	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:14	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:15	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:16	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:17	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:18	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:19	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 10:20	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:21	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:22	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:23	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:24	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:25	11.6	1.4	0.9	0.003	6.9	8.9	11.8	13.1
11/20/2014 10:26	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:27	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:28	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 10:29	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:30	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:31	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:32	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:33	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 10:34	11.6	1.7	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 10:35	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:36	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:37	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:38	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:39	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:40	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:41	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:42	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:43	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:44	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:45	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:46	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:47	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:48	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:49	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:50	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:51	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 10:52	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:53	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:54	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:55	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:56	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:57	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 10:58	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 10:59	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:00	11.6	1.8	1.1	0.004	9.3	9.0	11.9	13.1
11/20/2014 11:01	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:02	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:03	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 11:04	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:05	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:06	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:07	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:08	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:09	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:10	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:11	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:12	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:13	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:14	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:15	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:16	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:17	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:18	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:19	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:20	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:21	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:22	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:23	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:24	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:25	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:26	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:27	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:28	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 11:29	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:30	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:31	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:32	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:33	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:34	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:35	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:36	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:37	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:38	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:39	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:40	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:41	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:42	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 11:43	11.6	1.4	0.9	0.003	7.0	9.0	11.9	13.1
11/20/2014 11:44	11.6	1.5	1.0	0.004	9.3	9.0	11.9	13.1
11/20/2014 11:45	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:46	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 11:47	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:48	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:49	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:50	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:51	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:52	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:53	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:54	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:55	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 11:56	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 11:57	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 11:58	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 10:00 **To:** 11/20/2014 12:00 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:55 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 11:59	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:00	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.7	1.1	0.004	8.8	8.9	11.8	13.1

RATA Data Report 2

CT2

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:05	0.0	-1.6	11.6	13.1	177.0	22,404.2	196.1	1.7
11/20/2014 12:06	0.0	-1.7	11.6	13.1	177.2	22,458.5	175.3	1.5
11/20/2014 12:07	0.0	-1.7	11.6	13.1	177.1	22,449.6	149.5	1.3
11/20/2014 12:08	0.0	-1.7	11.6	13.1	176.9	22,448.2	147.9	1.3
11/20/2014 12:09	0.0	-1.6	11.6	13.1	176.8	22,438.6	146.4	1.2
11/20/2014 12:10	0.0	-1.6	11.6	13.1	176.7	22,425.1	146.6	1.3
11/20/2014 12:11	0.0	-1.6	11.6	13.1	176.8	22,414.7	145.1	1.2
11/20/2014 12:12	0.0	-1.6	11.6	13.1	176.7	22,433.2	146.9	1.3
11/20/2014 12:13	0.0	-1.6	11.6	13.1	176.9	22,393.9	144.9	1.2
11/20/2014 12:14	0.0	-1.6	11.6	13.1	176.7	22,424.4	146.9	1.3
11/20/2014 12:15	0.0	-1.6	11.6	13.1	176.9	22,424.3	155.3	1.3
11/20/2014 12:16	0.0	-1.6	11.6	13.1	176.8	22,437.3	164.9	1.4
11/20/2014 12:17	0.0	-1.6	11.6	13.1	177.2	22,397.3	175.9	1.5
11/20/2014 12:18	0.0	-1.7	11.6	13.1	176.8	22,446.1	189.0	1.7
11/20/2014 12:19	0.0	-1.6	11.6	13.1	176.9	22,419.8	196.7	1.7
11/20/2014 12:20	0.0	-1.7	11.6	13.1	177.0	22,452.5	187.3	1.6
11/20/2014 12:21	0.0	-1.6	11.6	13.1	176.9	22,425.9	158.7	1.4
11/20/2014 12:22	0.0	-1.7	11.6	13.1	176.8	22,452.5	147.5	1.3
11/20/2014 12:23	0.0	-1.7	11.6	13.1	177.0	22,457.4	147.2	1.3
11/20/2014 12:24	0.0	-1.6	11.6	13.1	176.9	22,442.1	146.8	1.3
11/20/2014 12:25	0.0	-1.7	11.6	13.1	176.9	22,452.6	145.9	1.2
11/20/2014 12:26	0.0	-1.6	11.6	13.1	176.7	22,434.8	146.1	1.2
11/20/2014 12:27	0.0	-1.6	11.6	13.1	176.6	22,420.6	146.0	1.2
11/20/2014 12:28	0.0	-1.6	11.6	13.1	176.7	22,424.5	150.9	1.3
11/20/2014 12:29	0.0	-1.7	11.6	13.1	176.9	22,458.2	153.9	1.3
11/20/2014 12:30	0.0	-1.6	11.6	13.1	177.0	22,444.6	166.0	1.4
11/20/2014 12:31	0.0	-1.6	11.6	13.1	177.0	22,432.3	176.1	1.5
11/20/2014 12:32	0.0	-1.7	11.6	13.1	176.9	22,447.6	184.5	1.6
11/20/2014 12:33	0.0	-1.6	11.6	13.1	176.9	22,418.8	185.4	1.6

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:34	0.0	-1.6	11.6	13.1	177.0	22,423.6	178.1	1.6
11/20/2014 12:35	0.0	-1.6	11.6	13.1	176.9	22,434.7	150.7	1.3
11/20/2014 12:36	0.0	-1.6	11.6	13.1	177.0	22,437.1	147.1	1.3
11/20/2014 12:37	0.0	-1.7	11.6	13.1	176.9	22,448.1	146.5	1.2
11/20/2014 12:38	0.0	-1.6	11.6	13.1	177.1	22,437.1	145.9	1.2
11/20/2014 12:39	0.0	-1.6	11.6	13.1	177.0	22,421.8	145.1	1.2
11/20/2014 12:40	0.0	-1.7	11.6	13.1	176.9	22,465.9	146.3	1.2
11/20/2014 12:41	0.0	-1.6	11.6	13.1	177.0	22,415.4	151.0	1.3
11/20/2014 12:42	0.0	-1.6	11.6	13.1	176.8	22,429.3	155.3	1.3
11/20/2014 12:43	0.0	-1.6	11.6	13.1	176.9	22,434.1	161.6	1.4
11/20/2014 12:44	0.0	-1.6	11.6	13.1	177.0	22,438.2	171.3	1.5
11/20/2014 12:45	0.0	-1.6	11.6	13.1	177.1	22,439.1	181.4	1.6
11/20/2014 12:46	0.0	-1.7	11.6	13.1	177.1	22,467.0	189.3	1.7
11/20/2014 12:47	0.0	-1.6	11.6	13.1	177.0	22,423.7	178.3	1.6
11/20/2014 12:48	0.0	-1.6	11.6	13.1	177.0	22,445.4	152.2	1.3
11/20/2014 12:49	0.0	-1.6	11.6	13.1	177.0	22,421.5	146.7	1.3
11/20/2014 12:50	0.0	-1.6	11.6	13.1	176.9	22,415.8	146.1	1.2
11/20/2014 12:51	0.0	-1.7	11.6	13.1	176.8	22,446.1	145.5	1.2
11/20/2014 12:52	0.0	-1.6	11.6	13.1	176.9	22,438.7	146.4	1.3
11/20/2014 12:53	0.0	-1.6	11.6	13.1	177.0	22,429.1	146.2	1.3
11/20/2014 12:54	0.0	-1.6	11.6	13.1	177.0	22,420.2	147.2	1.3
11/20/2014 12:55	0.0	-1.6	11.6	13.1	176.9	22,393.0	150.8	1.3
11/20/2014 12:56	0.0	-1.6	11.6	13.1	177.0	22,424.8	157.7	1.4
11/20/2014 12:57	0.0	-1.6	11.6	13.1	177.0	22,439.9	167.8	1.5
11/20/2014 12:58	0.0	-1.6	11.6	13.1	177.2	22,427.6	180.8	1.6
11/20/2014 12:59	0.0	-1.6	11.6	13.1	177.1	22,416.4	190.3	1.7
11/20/2014 13:00	0.0	-1.7	11.6	13.1	177.2	22,453.8	191.5	1.7
11/20/2014 13:01	0.0	-1.6	11.6	13.1	177.1	22,409.8	171.3	1.5
11/20/2014 13:02	0.0	-1.6	11.6	13.1	177.2	22,411.4	147.8	1.3
11/20/2014 13:03	0.0	-1.6	11.6	13.1	177.2	22,420.4	147.2	1.3

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:04	0.0	-1.6	11.6	13.1	177.1	22,401.9	146.0	1.2
11/20/2014 13:05	0.0	-1.6	11.6	13.1	177.0	22,406.6	145.5	1.2
11/20/2014 13:06	0.0	-1.6	11.6	13.1	177.0	22,429.9	145.5	1.2
11/20/2014 13:07	0.0	-1.6	11.6	13.1	177.2	22,411.5	146.7	1.3
11/20/2014 13:08	0.0	-1.6	11.6	13.1	177.0	22,429.2	147.8	1.3
11/20/2014 13:09	0.0	-1.6	11.6	13.1	177.1	22,400.4	151.9	1.3
11/20/2014 13:10	0.0	-1.6	11.6	13.1	177.1	22,422.1	162.5	1.4
11/20/2014 13:11	0.0	-1.6	11.6	13.1	177.1	22,401.2	172.3	1.5
11/20/2014 13:12	0.0	-1.6	11.6	13.1	177.0	22,410.8	188.9	1.7
11/20/2014 13:13	0.0	-1.6	11.6	13.1	176.7	22,418.2	197.4	1.7
11/20/2014 13:14	0.0	-1.6	11.6	13.1	176.8	22,419.1	191.5	1.7
11/20/2014 13:15	0.0	-1.6	11.6	13.0	176.7	22,419.1	168.2	1.5
11/20/2014 13:16	0.0	-1.6	11.6	13.0	176.7	22,420.0	147.7	1.3
11/20/2014 13:17	0.0	-1.6	11.6	13.1	176.9	22,405.6	147.3	1.3
11/20/2014 13:18	0.0	-1.6	11.6	13.1	176.8	22,418.4	147.2	1.3
11/20/2014 13:19	0.0	-1.6	11.6	13.1	176.7	22,413.7	146.0	1.2
11/20/2014 13:20	0.0	-1.6	11.6	13.1	176.9	22,436.9	145.3	1.2
11/20/2014 13:21	0.0	-1.6	11.6	13.1	176.8	22,418.4	147.4	1.3
11/20/2014 13:22	0.0	-1.6	11.6	13.1	176.8	22,440.3	144.5	1.2
11/20/2014 13:23	0.0	-1.6	11.6	13.1	176.6	22,396.3	147.3	1.3
11/20/2014 13:24	0.0	-1.6	11.6	13.1	176.8	22,418.6	154.6	1.3
11/20/2014 13:25	0.0	-1.6	11.6	13.1	176.8	22,392.1	165.7	1.4
11/20/2014 13:26	0.0	-1.6	11.6	13.1	176.8	22,431.5	174.4	1.5
11/20/2014 13:27	0.0	-1.6	11.6	13.1	176.6	22,413.1	184.0	1.6
11/20/2014 13:28	0.0	-1.6	11.6	13.1	176.8	22,437.8	189.8	1.7
11/20/2014 13:29	0.0	-1.6	11.6	13.1	176.7	22,433.2	181.4	1.6
11/20/2014 13:30	0.0	-1.6	11.6	13.1	176.7	22,397.1	153.4	1.3
11/20/2014 13:31	0.0	-1.6	11.6	13.1	176.7	22,442.9	147.5	1.3
11/20/2014 13:32	0.0	-1.6	11.6	13.1	176.6	22,432.5	146.0	1.2
11/20/2014 13:33	0.0	-1.6	11.6	13.1	176.7	22,400.5	146.0	1.2

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:34	0.0	-1.6	11.6	13.1	176.8	22,426.8	145.0	1.2
11/20/2014 13:35	0.0	-1.6	11.6	13.1	176.9	22,436.2	146.2	1.3
11/20/2014 13:36	0.0	-1.6	11.6	13.1	176.7	22,443.6	146.3	1.3
11/20/2014 13:37	0.0	-1.7	11.6	13.1	176.7	22,448.5	146.5	1.3
11/20/2014 13:38	0.0	-1.6	11.6	13.1	176.9	22,411.6	155.6	1.3
11/20/2014 13:39	0.0	-1.6	11.6	13.1	176.6	22,439.6	169.5	1.5
11/20/2014 13:40	0.0	-1.6	11.6	13.1	176.7	22,422.7	181.6	1.6
11/20/2014 13:41	0.0	-1.6	11.6	13.1	176.7	22,410.2	194.2	1.7
11/20/2014 13:42	0.0	-1.6	11.6	13.1	176.6	22,419.8	197.5	1.7
11/20/2014 13:43	0.0	-1.6	11.6	13.1	176.7	22,427.9	184.1	1.6
11/20/2014 13:44	0.0	-1.6	11.6	13.1	176.7	22,413.5	152.3	1.3
11/20/2014 13:45	0.0	-1.6	11.6	13.1	176.8	22,405.5	147.7	1.3
11/20/2014 13:46	0.0	-1.6	11.6	13.1	176.6	22,429.5	146.7	1.2
11/20/2014 13:47	0.0	-1.6	11.6	13.1	176.6	22,444.1	146.3	1.2
11/20/2014 13:48	0.0	-1.6	11.6	13.1	176.7	22,436.9	146.0	1.2
11/20/2014 13:49	0.0	-1.6	11.6	13.1	176.5	22,444.1	145.6	1.2
11/20/2014 13:50	0.0	-1.6	11.6	13.1	176.5	22,441.9	147.5	1.3
11/20/2014 13:51	0.0	-1.6	11.6	13.1	176.3	22,404.3	147.6	1.3
11/20/2014 13:52	0.0	-1.6	11.6	13.1	176.3	22,418.8	151.1	1.3
11/20/2014 13:53	0.0	-1.6	11.6	13.1	176.3	22,416.4	156.1	1.3
11/20/2014 13:54	0.0	-1.6	11.6	13.1	176.2	22,422.3	166.5	1.4
11/20/2014 13:55	0.0	-1.6	11.6	13.1	176.2	22,391.9	175.5	1.5
11/20/2014 13:56	0.0	-1.6	11.6	13.1	176.2	22,396.8	182.5	1.6
11/20/2014 13:57	0.0	-1.7	11.6	13.1	176.2	22,447.2	175.4	1.5
11/20/2014 13:58	0.0	-1.6	11.6	13.1	176.3	22,420.9	162.8	1.4
11/20/2014 13:59	0.0	-1.6	11.6	13.1	176.2	22,433.7	146.4	1.3
11/20/2014 14:00	0.0	-1.6	11.6	13.1	176.3	22,405.0	146.5	1.3
11/20/2014 14:01	0.0	-1.6	11.6	13.1	176.2	22,431.4	145.0	1.2
11/20/2014 14:02	0.0	-1.6	11.6	13.1	176.1	22,411.4	145.2	1.2
11/20/2014 14:03	0.0	-1.6	11.6	13.1	176.1	22,441.2	149.7	1.3

RATA Data Report 2

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 GasFlow, Total, 100scfh 1 Minute(s)	Unit CT2 NH3, Inj, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 14:04	0.0	-1.6	11.6	13.1	176.1	22,417.1	155.5	1.3
11/20/2014 14:05	0.0	-1.6	11.6	13.1	176.2	22,396.4	169.0	1.5
Valid Data Points	121	121	121	121	121	121	121	121
Average:	0.0	-1.6	11.6	13.1	176.8	22,426.3	159.6	1.4

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:05	11.6	-0.5	0.0	-1.6	2,319.5	177.0	3,415,462.2	1.7
11/20/2014 12:06	11.6	-0.5	0.0	-1.7	2,325.1	177.2	3,423,708.2	1.5
11/20/2014 12:07	11.6	-0.5	0.0	-1.7	2,324.2	177.1	3,422,383.0	1.3
11/20/2014 12:08	11.6	-0.5	0.0	-1.7	2,324.0	176.9	3,422,088.5	1.3
11/20/2014 12:09	11.6	-0.5	0.0	-1.6	2,323.0	176.8	3,420,616.0	1.2
11/20/2014 12:10	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 12:11	11.6	-0.5	0.0	-1.6	2,320.6	176.8	3,417,082.0	1.2
11/20/2014 12:12	11.6	-0.5	0.0	-1.6	2,322.5	176.7	3,419,879.7	1.3
11/20/2014 12:13	11.6	-0.5	0.0	-1.6	2,318.4	176.9	3,413,842.5	1.2
11/20/2014 12:14	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 12:15	11.6	-0.5	0.0	-1.6	2,321.6	176.9	3,418,554.5	1.3
11/20/2014 12:16	11.6	-0.5	0.0	-1.6	2,322.9	176.8	3,420,468.7	1.4
11/20/2014 12:17	11.6	-0.5	0.0	-1.6	2,318.8	177.2	3,414,431.5	1.5
11/20/2014 12:18	11.6	-0.5	0.0	-1.7	2,323.8	176.8	3,421,794.0	1.7
11/20/2014 12:19	11.6	-0.5	0.0	-1.6	2,321.1	176.9	3,417,818.2	1.7
11/20/2014 12:20	11.6	-0.5	0.0	-1.7	2,324.5	177.0	3,422,824.7	1.6
11/20/2014 12:21	11.6	-0.5	0.0	-1.6	2,321.7	176.9	3,418,701.7	1.4
11/20/2014 12:22	11.6	-0.5	0.0	-1.7	2,324.5	176.8	3,422,824.7	1.3
11/20/2014 12:23	11.6	-0.5	0.0	-1.7	2,325.0	177.0	3,423,561.0	1.3
11/20/2014 12:24	11.6	-0.5	0.0	-1.6	2,323.4	176.9	3,421,205.0	1.3
11/20/2014 12:25	11.6	-0.5	0.0	-1.7	2,324.5	176.9	3,422,824.7	1.2
11/20/2014 12:26	11.6	-0.5	0.0	-1.6	2,322.6	176.7	3,420,027.0	1.2
11/20/2014 12:27	11.6	-0.5	0.0	-1.6	2,321.2	176.6	3,417,965.5	1.2
11/20/2014 12:28	11.6	-0.5	0.0	-1.6	2,321.6	176.7	3,418,554.5	1.3
11/20/2014 12:29	11.6	-0.5	0.0	-1.7	2,325.1	176.9	3,423,708.2	1.3
11/20/2014 12:30	11.6	-0.5	0.0	-1.6	2,323.7	177.0	3,421,646.7	1.4
11/20/2014 12:31	11.6	-0.5	0.0	-1.6	2,322.4	177.0	3,419,732.5	1.5
11/20/2014 12:32	11.6	-0.5	0.0	-1.7	2,324.0	176.9	3,422,088.5	1.6
11/20/2014 12:33	11.6	-0.5	0.0	-1.6	2,321.0	176.9	3,417,671.0	1.6

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 12:34	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.6
11/20/2014 12:35	11.6	-0.5	0.0	-1.6	2,322.6	176.9	3,420,027.0	1.3
11/20/2014 12:36	11.6	-0.5	0.0	-1.6	2,322.9	177.0	3,420,468.7	1.3
11/20/2014 12:37	11.6	-0.5	0.0	-1.7	2,324.0	176.9	3,422,088.5	1.2
11/20/2014 12:38	11.6	-0.5	0.0	-1.6	2,322.9	177.1	3,420,468.7	1.2
11/20/2014 12:39	11.6	-0.5	0.0	-1.6	2,321.3	177.0	3,418,112.7	1.2
11/20/2014 12:40	11.6	-0.5	0.0	-1.7	2,325.9	176.9	3,424,886.2	1.2
11/20/2014 12:41	11.6	-0.5	0.0	-1.6	2,320.6	177.0	3,417,082.0	1.3
11/20/2014 12:42	11.6	-0.5	0.0	-1.6	2,322.1	176.8	3,419,290.7	1.3
11/20/2014 12:43	11.6	-0.5	0.0	-1.6	2,322.6	176.9	3,420,027.0	1.4
11/20/2014 12:44	11.6	-0.5	0.0	-1.6	2,323.0	177.0	3,420,616.0	1.5
11/20/2014 12:45	11.6	-0.5	0.0	-1.6	2,323.1	177.1	3,420,763.2	1.6
11/20/2014 12:46	11.6	-0.5	0.0	-1.7	2,326.0	177.1	3,425,033.5	1.7
11/20/2014 12:47	11.6	-0.5	0.0	-1.6	2,321.5	177.0	3,418,407.2	1.6
11/20/2014 12:48	11.6	-0.5	0.0	-1.6	2,323.7	177.0	3,421,646.7	1.3
11/20/2014 12:49	11.6	-0.5	0.0	-1.6	2,321.3	177.0	3,418,112.7	1.3
11/20/2014 12:50	11.6	-0.5	0.0	-1.6	2,320.7	176.9	3,417,229.2	1.2
11/20/2014 12:51	11.6	-0.5	0.0	-1.7	2,323.8	176.8	3,421,794.0	1.2
11/20/2014 12:52	11.6	-0.5	0.0	-1.6	2,323.1	176.9	3,420,763.2	1.3
11/20/2014 12:53	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.3
11/20/2014 12:54	11.6	-0.5	0.0	-1.6	2,321.1	177.0	3,417,818.2	1.3
11/20/2014 12:55	11.6	-0.5	0.0	-1.6	2,318.3	176.9	3,413,695.2	1.3
11/20/2014 12:56	11.6	-0.5	0.0	-1.6	2,321.6	177.0	3,418,554.5	1.4
11/20/2014 12:57	11.6	-0.5	0.0	-1.6	2,323.2	177.0	3,420,910.5	1.5
11/20/2014 12:58	11.6	-0.5	0.0	-1.6	2,321.9	177.2	3,418,996.2	1.6
11/20/2014 12:59	11.6	-0.5	0.0	-1.6	2,320.7	177.1	3,417,229.2	1.7
11/20/2014 13:00	11.6	-0.5	0.0	-1.7	2,324.6	177.2	3,422,972.0	1.7
11/20/2014 13:01	11.6	-0.5	0.0	-1.6	2,320.1	177.1	3,416,345.7	1.5
11/20/2014 13:02	11.6	-0.5	0.0	-1.6	2,320.2	177.2	3,416,493.0	1.3
11/20/2014 13:03	11.6	-0.5	0.0	-1.6	2,321.2	177.2	3,417,965.5	1.3

RATA Data Report

CT2

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From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:04	11.6	-0.5	0.0	-1.6	2,319.2	177.1	3,415,020.5	1.2
11/20/2014 13:05	11.6	-0.5	0.0	-1.6	2,319.7	177.0	3,415,756.7	1.2
11/20/2014 13:06	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.2
11/20/2014 13:07	11.6	-0.5	0.0	-1.6	2,320.2	177.2	3,416,493.0	1.3
11/20/2014 13:08	11.6	-0.5	0.0	-1.6	2,322.1	177.0	3,419,290.7	1.3
11/20/2014 13:09	11.6	-0.5	0.0	-1.6	2,319.1	177.1	3,414,873.2	1.3
11/20/2014 13:10	11.6	-0.5	0.0	-1.6	2,321.3	177.1	3,418,112.7	1.4
11/20/2014 13:11	11.6	-0.5	0.0	-1.6	2,319.2	177.1	3,415,020.5	1.5
11/20/2014 13:12	11.6	-0.5	0.0	-1.6	2,320.2	177.0	3,416,493.0	1.7
11/20/2014 13:13	11.6	-0.5	0.0	-1.6	2,320.9	176.7	3,417,523.7	1.7
11/20/2014 13:14	11.6	-0.5	0.0	-1.6	2,321.0	176.8	3,417,671.0	1.7
11/20/2014 13:15	11.6	-0.5	0.0	-1.6	2,321.0	176.7	3,417,671.0	1.5
11/20/2014 13:16	11.6	-0.5	0.0	-1.6	2,321.1	176.7	3,417,818.2	1.3
11/20/2014 13:17	11.6	-0.5	0.0	-1.6	2,319.6	176.9	3,415,609.5	1.3
11/20/2014 13:18	11.6	-0.5	0.0	-1.6	2,321.0	176.8	3,417,671.0	1.3
11/20/2014 13:19	11.6	-0.5	0.0	-1.6	2,320.5	176.7	3,416,934.7	1.2
11/20/2014 13:20	11.6	-0.5	0.0	-1.6	2,322.9	176.9	3,420,468.7	1.2
11/20/2014 13:21	11.6	-0.5	0.0	-1.6	2,321.0	176.8	3,417,671.0	1.3
11/20/2014 13:22	11.6	-0.5	0.0	-1.6	2,323.2	176.8	3,420,910.5	1.2
11/20/2014 13:23	11.6	-0.5	0.0	-1.6	2,318.7	176.6	3,414,284.2	1.3
11/20/2014 13:24	11.6	-0.5	0.0	-1.6	2,321.0	176.8	3,417,671.0	1.3
11/20/2014 13:25	11.6	-0.5	0.0	-1.6	2,318.2	176.8	3,413,548.0	1.4
11/20/2014 13:26	11.6	-0.5	0.0	-1.6	2,322.3	176.8	3,419,585.2	1.5
11/20/2014 13:27	11.6	-0.5	0.0	-1.6	2,320.4	176.6	3,416,787.5	1.6
11/20/2014 13:28	11.6	-0.5	0.0	-1.6	2,323.0	176.8	3,420,616.0	1.7
11/20/2014 13:29	11.6	-0.5	0.0	-1.6	2,322.5	176.7	3,419,879.7	1.6
11/20/2014 13:30	11.6	-0.5	0.0	-1.6	2,318.7	176.7	3,414,284.2	1.3
11/20/2014 13:31	11.6	-0.5	0.0	-1.6	2,323.5	176.7	3,421,352.2	1.3
11/20/2014 13:32	11.6	-0.5	0.0	-1.6	2,322.4	176.6	3,419,732.5	1.2
11/20/2014 13:33	11.6	-0.5	0.0	-1.6	2,319.1	176.7	3,414,873.2	1.2

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 13:34	11.6	-0.5	0.0	-1.6	2,321.8	176.8	3,418,849.0	1.2
11/20/2014 13:35	11.6	-0.5	0.0	-1.6	2,322.8	176.9	3,420,321.5	1.3
11/20/2014 13:36	11.6	-0.5	0.0	-1.6	2,323.6	176.7	3,421,499.5	1.3
11/20/2014 13:37	11.6	-0.5	0.0	-1.7	2,324.1	176.7	3,422,235.7	1.3
11/20/2014 13:38	11.6	-0.5	0.0	-1.6	2,320.2	176.9	3,416,493.0	1.3
11/20/2014 13:39	11.6	-0.5	0.0	-1.6	2,323.1	176.6	3,420,763.2	1.5
11/20/2014 13:40	11.6	-0.5	0.0	-1.6	2,321.4	176.7	3,418,260.0	1.6
11/20/2014 13:41	11.6	-0.5	0.0	-1.6	2,320.1	176.7	3,416,345.7	1.7
11/20/2014 13:42	11.6	-0.5	0.0	-1.6	2,321.1	176.6	3,417,818.2	1.7
11/20/2014 13:43	11.6	-0.5	0.0	-1.6	2,321.9	176.7	3,418,996.2	1.6
11/20/2014 13:44	11.6	-0.5	0.0	-1.6	2,320.4	176.7	3,416,787.5	1.3
11/20/2014 13:45	11.6	-0.5	0.0	-1.6	2,319.6	176.8	3,415,609.5	1.3
11/20/2014 13:46	11.6	-0.5	0.0	-1.6	2,322.1	176.6	3,419,290.7	1.2
11/20/2014 13:47	11.6	-0.5	0.0	-1.6	2,323.6	176.6	3,421,499.5	1.2
11/20/2014 13:48	11.6	-0.5	0.0	-1.6	2,322.9	176.7	3,420,468.7	1.2
11/20/2014 13:49	11.6	-0.5	0.0	-1.6	2,323.6	176.5	3,421,499.5	1.2
11/20/2014 13:50	11.6	-0.5	0.0	-1.6	2,323.4	176.5	3,421,205.0	1.3
11/20/2014 13:51	11.6	-0.5	0.0	-1.6	2,319.5	176.3	3,415,462.2	1.3
11/20/2014 13:52	11.6	-0.5	0.0	-1.6	2,321.0	176.3	3,417,671.0	1.3
11/20/2014 13:53	11.6	-0.5	0.0	-1.6	2,320.7	176.3	3,417,229.2	1.3
11/20/2014 13:54	11.6	-0.5	0.0	-1.6	2,321.4	176.2	3,418,260.0	1.4
11/20/2014 13:55	11.6	-0.5	0.0	-1.6	2,318.2	176.2	3,413,548.0	1.5
11/20/2014 13:56	11.6	-0.5	0.0	-1.6	2,318.7	176.2	3,414,284.2	1.6
11/20/2014 13:57	11.6	-0.5	0.0	-1.7	2,323.9	176.2	3,421,941.2	1.5
11/20/2014 13:58	11.6	-0.5	0.0	-1.6	2,321.2	176.3	3,417,965.5	1.4
11/20/2014 13:59	11.6	-0.5	0.0	-1.6	2,322.5	176.2	3,419,879.7	1.3
11/20/2014 14:00	11.6	-0.5	0.0	-1.6	2,319.6	176.3	3,415,609.5	1.3
11/20/2014 14:01	11.6	-0.5	0.0	-1.6	2,322.3	176.2	3,419,585.2	1.2
11/20/2014 14:02	11.6	-0.5	0.0	-1.6	2,320.2	176.1	3,416,493.0	1.2
11/20/2014 14:03	11.6	-0.5	0.0	-1.6	2,323.3	176.1	3,421,057.7	1.3

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 CO, Ppm 1 Minute(s)	Unit CT2 CO, Ppmvdc 1 Minute(s)	Unit CT2 CO, LbPerHr 1 Minute(s)	Unit CT2 HI, MBtuPerHr 1 Minute(s)	Unit CT2 Load, MWe 1 Minute(s)	Unit CT2 ExhaustFlow, LbPerHr 1 Minute(s)	Unit CT2 NH3Slip, Ppmvdc 1 Minute(s)
11/20/2014 14:04	11.6	-0.5	0.0	-1.6	2,320.8	176.1	3,417,376.5	1.3
11/20/2014 14:05	11.6	-0.5	0.0	-1.6	2,318.7	176.2	3,414,284.2	1.5
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	-0.5	0.0	-1.6	2,321.8	176.8	3,418,806.4	1.4

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 12:05	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:06	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:07	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:08	11.6	1.2	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:09	11.6	1.3	0.8	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:10	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:11	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:12	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:13	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:14	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:15	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:16	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:17	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:18	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:19	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:20	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:21	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:22	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:23	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:24	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 12:25	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:26	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:27	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:28	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:29	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:30	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:31	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:32	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:33	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 12:34	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:35	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:36	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:37	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:38	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:39	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:40	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:41	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:42	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:43	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:44	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:45	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:46	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:47	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:48	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:49	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:50	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 12:51	11.6	1.5	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:52	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:53	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:54	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:55	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:56	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 12:57	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:58	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 12:59	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:00	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:01	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:02	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:03	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 13:04	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:05	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:06	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:07	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:08	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:09	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:10	11.6	1.9	1.2	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:11	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:12	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:13	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:14	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:15	11.6	1.4	0.9	0.003	7.0	8.7	11.7	13.0
11/20/2014 13:16	11.6	1.3	0.8	0.003	7.0	8.7	11.7	13.0
11/20/2014 13:17	11.6	1.2	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:18	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:19	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:20	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:21	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:22	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:23	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:24	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:25	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:26	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:27	11.6	1.8	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:28	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:29	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:30	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:31	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:32	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:33	11.6	1.4	0.9	0.003	7.0	8.9	11.7	13.1

RATA Data Report

CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION

Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 13:34	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:35	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:36	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:37	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:38	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:39	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:40	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:41	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:42	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:43	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:44	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:45	11.6	1.2	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:46	11.6	1.3	0.8	0.003	7.0	8.9	11.7	13.1
11/20/2014 13:47	11.6	1.4	0.9	0.003	7.0	8.9	11.8	13.1
11/20/2014 13:48	11.6	1.6	1.0	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:49	11.6	1.7	1.1	0.004	9.3	8.9	11.8	13.1
11/20/2014 13:50	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:51	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:52	11.6	1.9	1.2	0.004	9.3	8.8	11.6	13.1
11/20/2014 13:53	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:54	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:55	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:56	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:57	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:58	11.6	1.6	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 13:59	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 14:00	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 14:01	11.6	1.5	1.0	0.004	9.3	8.9	11.7	13.1
11/20/2014 14:02	11.6	1.7	1.1	0.004	9.3	8.9	11.7	13.1
11/20/2014 14:03	11.6	1.8	1.1	0.004	9.3	8.9	11.7	13.1

RATA Data Report
CT2

COLUSA GENERATING STATION

From: 11/20/2014 12:05 **To:** 11/20/2014 14:05 **Facility Name:** COLUSA GENERATING STATION
Generated: 12/08/2014 08:56 **Location:** Maxwell, CA

Red = Sample Invalid

Date/Time	Unit CT2 O2, Dry, Pct 1 Minute(s)	Unit CT2 NOx, Ppm 1 Minute(s)	Unit CT2 NOx, Ppmvdc 1 Minute(s)	Unit CT2 NOx, LbPerMBtu 1 Minute(s)	Unit CT2 NOx, LbPerHr 1 Minute(s)	Unit CT2 NOx, Inlet, Ppmvdc 1 Minute(s)	Unit CT2 NOx, Inlet, Ppm 1 Minute(s)	Unit CT2 O2Dry, Inlet, Pct 1 Minute(s)
11/20/2014 14:04	11.6	1.9	1.2	0.004	9.3	8.9	11.7	13.1
11/20/2014 14:05	11.6	2.0	1.3	0.005	11.6	8.9	11.7	13.1
Valid Data Points	121	121	121	121	121	121	121	121
Average:	11.6	1.7	1.0	0.004	8.8	8.9	11.7	13.1

APPENDIX F LABORATORY DATA

✓

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/17/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 1 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RF

Test #'s: 1 NH_3 MIN Slope: -58.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	3.98						100%
Reagent Blank 0.1N HCl	1.06						
1 NH_3	1.33	49			503		828.9
2 NH_3	1.25	49			493		763.5
3 NH_3	1.32	49			468		765.4
Spike 3 NH_3	4.59						98% recovery
4 µg NH_3	3.91						98%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

✓

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/17/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 1 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RZ

Test #'s: NH_3 Mid Slope: -58.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	3.91						98%
Reagent Blank 0.1N HCl	1.06						
1 NH_3	1.54	49			481		917.8
2 NH_3	1.46	49			493		891.8
3 NH_3	1.06	49			466		612.0
spike 3 NH_3	4.40						
4 µg NH_3	3.89						97%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/17/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 1 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RZ

Test #'s: 1 NH_3 Base Slope: ~58.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	4.00						100%
Reagent Blank 0.1N HCl	1.06						
1 NH_3	1.82	49			459		1035.0
2 NH_3	1.72	49			492		1048.5
3 NH_3	1.63	49			509		1028.0
Spike 3 NH_3	4.82	25					100% recovery
4µg NH_3	3.98						100%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/18/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 1 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RZ

Test #'s: NH_3 MAX Slope: -58.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	3.89						97%
Reagent Blank 0.1N HCl	1.06						
1 NH_3	2.19	49			384		1042.0
2 NH_3	1.64	49			498		1011.9
3 NH_3	1.56	49			515		995.4
Spike 3 NH_3	4.57	25					
4 µg NH_3	3.88						97%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/19/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 2 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RZ

Test #'s: NH_3 min Slope: -59.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	4.09						102%
Reagent Blank 0.1N HCl	0.962						
1 NH_3	0.798	48.5			522	516.1	spiked
2 NH_3	0.778	48.5			485	467.5	spiked
3 NH_3	~~1.82~~ 0.858	48.5			486	349.2	spiked
Spike 3 NH_3	4.30	25					97% recovery
4 µg NH_3	4.06						102%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/19/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 2 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RZ

Test #'s: NH_3 Mid Slope: -58.6 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	3.91						98%
Reagent Blank 0.1N HCl	1.09						
1 NH_3	1.06	49			484	635.6	
2 NH_3	0.680	48.5			475	400.2	spiked
3 NH_3	0.680	48.5			499	420.4	spiked
Spike 3 NH_3	4.50	25					103%
							recovery
4 µg NH_3	3.86						97%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

✓

Delta
Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/19/14
Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14
Sample Location: Colusa 2 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RF
Test #'s: NH_3 Max Slope: -58.6 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	3.99						100%
Reagent Blank 0.1N HCl	1.09						
1 NH_3	1.28				524		831.0
2 NH_3	1.37				491		833.4
3 NH_3	1.20				588		874.2
Spike 3 NH_3	4.54						98%
							recovery
4 µg NH_3	3.91						98%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

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Delta Air Quality Services, Incorporated

AMMONIA BY ION SELECTIVE ELECTRODE ANALYSIS

Project #: _____ District Method: BAAQMD Method 1A Sample Date: 11/19/14

Client/Location: PG+E 1st Calibration Point: 1.0 ppm NH_3 as N Analysis Date: 12/3/14

Sample Location: Colusa 2 2nd Calibration Point: 10.0 ppm NH_3 as N Analyst's Initials: RF

Test #'s: NH_3 Base Slope: -59.3 Acceptable Value (-57 ±3)

Sample	NH_3 conc. µg/ ml, as N	Aliquot ml	DF	Spike µg/ml as N	TV, ml	µg NH_3/ sample	Comments
Standard Check: 4 µg NH_3/ml as N	4.06						101%
Reagent Blank 0.1N HCl							
1 NH_3	1.42	49			480	844.5	
2 NH_3	1.24	49			506	777.4	
3 NH_3	1.12	49			499	692.4	
Spike 3 NH_3	4.58						
4 µg NH_3	4.10						102%

Notes: Total volume of samples and standards used: 50 ml
Volume of pH adjusting ISA used in ml: 1ml
Absorbing solution: 0.1 N HCl
DF = Dilution Factor. DF = 1 if no dilution is made, = 2 if concentration is diluted 50%.

Calculations: µg NH_3/sample = (µg/ ml NH_3 as N – Spike) x 50 ml/ Al ml x DF x TV x 17 / 14
mg/sample = µg /sample ÷ 1000
ppm NH_3 = mg NH_3/sample x 1/Vmstd x 1/454000 x SV/17 x 10^6

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report

METHANE, ETHANE & TOTAL NON-METHANE NON-ETHANE ORGANIC COMPOUNDS

CLIENT : **Delta Air Quality Services, Inc**
PROJECT NUMBER : **141840**
MATRIX : **AIR**

RECEIVING DATE : **11/26/2014**
ANALYSIS DATE : **12/01/2014**
REPORT DATE : **12/02/2014**

				EPA 18 mod Analysis								
Client Sample ID	**AAC Sample ID**	**Sampling Date**	**Analysis Date**	**Methane (EPA 18mod) ppbC**	**Methane RL (RL x DF's) ppbC**	**Ethane ppbC**	**Ethane RL (RL x DF's) ppbC**	**TNMNEOC ppbC**	**Can Dilution Factor**	**Sample Dilution Factor**	**TNMNEOC RL (RL x DF's) ppbC**	**Method RL as Carbon ppbC**
1-VOC-Base-1	141840-76029	11/17/2014	12/01/2014	<SRL	399	<SRL	1.6	111	1.60	1.0	31.9	20
2-VOC-Base-1	141840-76030	11/17/2014	12/01/2014	<SRL	416	<SRL	1.7	107	1.66	1.0	33.3	20
3-VOC-Base-1	141840-76031	11/17/2014	12/01/2014	<SRL	447	<SRL	1.8	70.0	1.79	1.0	35.8	20
1-VOC-Max-1	141840-76032	11/18/2014	12/01/2014	695	380	4.69	1.5	115	1.52	1.0	30.4	20
2-VOC-Max-1	141840-76033	11/18/2014	12/01/2014	935	435	5.80	1.7	242	1.74	1.0	34.8	20
3-VOC-Max-1	141840-76034	11/18/2014	12/01/2014	837	446	5.26	1.8	144	1.78	1.0	35.7	20
1-VOC-Base-2	141840-76035	11/19/2014	12/01/2014	<SRL	454	<SRL	1.8	41.9	1.82	1.0	36.4	20
2-VOC-Base-2	141840-76036	11/19/2014	12/01/2014	<SRL	406	<SRL	1.6	313	1.63	1.0	32.5	20
3-VOC-Base-2	141840-76037	11/19/2014	12/01/2014	<SRL	447	<SRL	1.8	62.3	1.79	1.0	35.7	20
1-VOC-Max-2	141840-76038	11/20/2014	12/01/2014	<SRL	435	<SRL	1.7	61.7	1.74	1.0	34.8	20
2-VOC-Max-2	141840-76039	11/20/2014	12/01/2014	<SRL	442	<SRL	1.8	73.9	1.77	1.0	35.3	20
3-VOC-Max-2	141840-76040	11/20/2014	12/01/2014	<SRL	393	<SRL	1.6	156	1.57	1.0	31.5	20

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
PAMS Calibration Verification Analysis

Analysis Date : 12/01/2014
Analyst : JJG

Instrument ID : MS-01
Standard ID : PS103014-02
Calibration Date : 11/05/2013

Continuing Calibration Verification

Analyte	xRF	daily RF	%RPD*
Propane	697	711	2.0

* %RPD must be < 10%

Laboratory Control Spike Recovery

Analyte	Sample Conc.	Spike Added	Spike Res	Spike Dup Res	Spike % Rec **	Spike Dup % Rec **	RPD*** %
Propane	0.0	4.04	4.12	4.14	102.0	102.5	0.5

** Must be 80-120%
*** Must be < 25%

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Quality Control/Quality Assurance Report
PAMS Method Blank Analysis

Matrix : Air
Units : ppbC

Analysis Date : 12/01/2014
Report Date : 12/01/2014

Client ID / *AAC ID*	Method Blank / PAMS BLANK	PQL
Ethylene	<PQL	1.0
Acetylene	<PQL	1.0
Ethane	<PQL	1.0
Propylene	<PQL	1.0
Propane	<PQL	1.0
Isobutane	<PQL	1.0
1-Butene	<PQL	1.0
n-Butane	<PQL	1.0
trans-2-Butene	<PQL	1.0
cis-2-Butene	<PQL	1.0
Isopentane	<PQL	1.0
1-Pentene	<PQL	1.0
n-Pentane	<PQL	1.0
Isoprene	<PQL	1.0
trans-2-Pentene	<PQL	1.0
cis-2-Pentene	<PQL	1.0
2,2-Dimethylbutane	<PQL	1.0
Cyclopentane	<PQL	1.0
2,3-Dimethylbutane	<PQL	1.0
2-Methylpentane	<PQL	1.0
3-Methylpentane	<PQL	1.0
1-Hexene	<PQL	1.0
n-Hexane	<PQL	1.0
Methylcyclopentane	<PQL	1.0
2,4-Dimethylpentane	<PQL	1.0
Benzene	<PQL	1.0
Cyclohexane	<PQL	1.0
2-Methylhexane	<PQL	1.0

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Quality Control/Quality Assurance Report
PAMS Method Blank Analysis

Matrix : Air
Units : ppbC

Analysis Date : 12/01/2014
Report Date : 12/01/2014

Client ID / *AAC ID*	Method Blank / PAMS BLANK	PQL
2,3-Dimethylpentane	<PQL	1.0
3-Methylhexane	<PQL	1.0
2,2,4-Trimethylpentane	<PQL	1.0
n-Heptane	<PQL	1.0
Methylcyclohexane	<PQL	1.0
2,3,4-Trimethylpentane	<PQL	1.0
Toluene	<PQL	1.0
2-Methylheptane	<PQL	1.0
3-Methylheptane	<PQL	1.0
n-Octane	<PQL	1.0
Ethylbenzene	<PQL	1.0
m/p-Xylenes	<PQL	1.0
Styrene	<PQL	1.0
o-Xylene	<PQL	1.0
Nonane	<PQL	1.0
Isopropylbenzene	<PQL	1.0
n-Propylbenzene	<PQL	1.0
m-Ethyltoluene	<PQL	1.0
p-Ethyltoluene	<PQL	1.0
1,3,5-Trimethylbenzene	<PQL	1.0
o-Ethyltoluene	<PQL	1.0
1,2,4-Trimethylbenzene	<PQL	1.0
n-Decane	<PQL	1.0
1,2,3-Trimethylbenzene	<PQL	1.0
m-Diethylbenzene	<PQL	1.0
p-Diethylbenzene	<PQL	1.0
n-Undecane	<PQL	1.0
n-Dodecane	<PQL	1.0
TNMHC (ppbC)	<PQL	20

Marcus Hueppe
Laboratory Director

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Quality Control/Quality Assurance Report
PAMS Duplicate Analysis

AAC ID : 141840-76029
Matrix : Air

Analysis Date : 12/01/2014
Report Date : 12/01/2014
Units : ppbC

Analyte	Sample Analysis	Sample Duplicate Analysis	%RPD
2,3-Dimethylpentane	<PQL	<PQL	0.0
3-Methylhexane	<PQL	<PQL	0.0
2,2,4-Trimethylpentane	<PQL	<PQL	0.0
n-Heptane	<PQL	<PQL	0.0
Methylcyclohexane	<PQL	<PQL	0.0
2,3,4-Trimethylpentane	<PQL	<PQL	0.0
Toluene	<PQL	<PQL	0.0
2-Methylheptane	<PQL	<PQL	0.0
3-Methylheptane	<PQL	<PQL	0.0
n-Octane	<PQL	<PQL	0.0
Ethylbenzene	<PQL	<PQL	0.0
m/p-Xylenes	<PQL	<PQL	0.0
Styrene	<PQL	<PQL	0.0
o-Xylene	<PQL	<PQL	0.0
Nonane	<PQL	<PQL	0.0
Isopropylbenzene	<PQL	<PQL	0.0
n-Propylbenzene	<PQL	<PQL	0.0
m-Ethyltoluene	<PQL	<PQL	0.0
p-Ethyltoluene	<PQL	<PQL	0.0
1,3,5-Trimethylbenzene	<PQL	<PQL	0.0
o-Ethyltoluene	<PQL	<PQL	0.0
1,2,4-Trimethylbenzene	<PQL	<PQL	0.0
n-Decane	<PQL	<PQL	0.0
1,2,3-Trimethylbenzene	<PQL	<PQL	0.0
m-Diethylbenzene	<PQL	<PQL	0.0
p-Diethylbenzene	<PQL	<PQL	0.0
n-Undecane	<PQL	<PQL	0.0
n-Dodecane	<PQL	<PQL	0.0
Total PAMS (ppbC)	<PQL	<PQL	0.0
TNMHC (ppbC)	111	112	0.9

TNMHC - Total Non-Methane Hydrocarbons

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
PAMS Duplicate Analysis

AAC ID : 141840-76029
Matrix : Air

Analysis Date : 12/01/2014
Report Date : 12/01/2014
Units : ppbC

Analyte	Sample Analysis	Sample Duplicate Analysis	%RPD
2,3-Dimethylpentane	<PQL	<PQL	0.0
3-Methylhexane	<PQL	<PQL	0.0
2,2,4-Trimethylpentane	<PQL	<PQL	0.0
n-Heptane	<PQL	<PQL	0.0
Methylcyclohexane	<PQL	<PQL	0.0
2,3,4-Trimethylpentane	<PQL	<PQL	0.0
Toluene	<PQL	<PQL	0.0
2-Methylheptane	<PQL	<PQL	0.0
3-Methylheptane	<PQL	<PQL	0.0
n-Octane	<PQL	<PQL	0.0
Ethylbenzene	<PQL	<PQL	0.0
m/p-Xylenes	<PQL	<PQL	0.0
Styrene	<PQL	<PQL	0.0
o-Xylene	<PQL	<PQL	0.0
Nonane	<PQL	<PQL	0.0
Isopropylbenzene	<PQL	<PQL	0.0
n-Propylbenzene	<PQL	<PQL	0.0
m-Ethyltoluene	<PQL	<PQL	0.0
p-Ethyltoluene	<PQL	<PQL	0.0
1,3,5-Trimethylbenzene	<PQL	<PQL	0.0
o-Ethyltoluene	<PQL	<PQL	0.0
1,2,4-Trimethylbenzene	<PQL	<PQL	0.0
n-Decane	<PQL	<PQL	0.0
1,2,3-Trimethylbenzene	<PQL	<PQL	0.0
m-Diethylbenzene	<PQL	<PQL	0.0
p-Diethylbenzene	<PQL	<PQL	0.0
n-Undecane	<PQL	<PQL	0.0
n-Dodecane	<PQL	<PQL	0.0
Total PAMS (ppbC)	<PQL	<PQL	0.0
TNMHC (ppbC)	111	112	0.9

TNMHC - Total Non-Methane Hydrocarbons

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AAC # 141840

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/17/2014

LOCATION: Colusa

SAMPLER(S): RD / RMo

SAMPLE LOCATION: Stack GT Unit 1

PROJECT MANAGER: John Peterson

TEST METHOD(S): EPA 18 / TO-12

DATE DUE: 11/27/2014

OUTSIDE LAB REQUIRED?: AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/17/2014	17:38	1-VOC-Base-1	76029 Summa Canister	1	RD / RMo	Natural Gas
11/17/2014	18:26	2-VOC-Base-1	76030 Summa Canister	1	RD / RMo	Natural Gas
11/17/2014	19:13	3-VOC-Base-1	76031 Summa Canister	1	RD / RMo	Natural Gas

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	1102 / 1125		11/25/14 1102
	11/26/14 1130		
	11/26/14 1615		Orange Courier

ANALYSIS REQUIRED: EPA 18 and TO-12
C1-C6+

Delta Air Quality Services, Incorporated

2014 PGE Colusa Unit 1 RATA-Comp
C of C HxCy

AAC # 141840

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/18/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 1

PROJECT MANAGER: John Peterson

TEST METHOD(S): SDAPCD Method 18

DATE DUE: 11/28/2014

OUTSIDE LAB REQUIRED?: ~~ATMAA~~ AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/18/2014	8:53	1-VOC-Max-1	76032 Summa Canister	1	SS	
11/18/2014	9:43	2-VOC-Max-1	76033 Summa Canister	1	SS	
11/18/2014	10:33	3-VOC-Max-1	76034 Summa Canister	1	SS	

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	11/25/14 1102		11/26/14
	11/26/14 1130		
	11/26/14 1615		orange Carrier

ANALYSIS REQUIRED: EPA Method 18 TO-12

Delta Air Quality Services, Incorporated

11/23/2014
12:18 PM

2

AAC#141840

2014 PGE Clusa Unit 2 Comp
C of C HxCy

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/19/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 2

PROJECT MANAGER: John Peterson

TEST METHOD(S): EPA Method 18 / TO-12

DATE DUE: 11/29/2014

OUTSIDE LAB REQUIRED?: ~~AIMAA~~ AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/19/2014	13:33	1-VOC-Base-2	70635 Summa Canister	1	RMo / RD	
11/19/2014	14:24	2-VOC-Base-2	70636 Summa Canister	1	RMo / RD	
11/19/2014	15:14	3-VOC-Base-2	70637 Summa Canister	1	RMo / RD	

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	[illegible]	11/25/14 1102
[illegible]	11/26/14 11:30	[illegible]	
	11/26/14 16:15	[illegible]	Orange Courier

ANALYSIS REQUIRED: EPA Method 18 and TO-12

Delta Air Quality Services, Incorporated

11/23/2014
12:31 PM

3

2014 PGE Clusa Unit 2 RATA-Comp
C of C HxCy

AAC# 141840

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/20/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 2

PROJECT MANAGER: John Peterson

TEST METHOD(S): EPA Method 18 / TO-12

DATE DUE: 11/30/2014

OUTSIDE LAB REQUIRED?: ~~ATMAA~~ AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/20/2014	8:33	1-VOC-Max-2	70638 Summa Canister	1	RMo / RD	
11/20/2014	9:23	2-VOC-Max-2	70639 Summa Canister	1	RMo / RD	
11/20/2014	10:13	3-VOC-max-2	70640 Summa Canister	1	RMo / RD	

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	Ray [illegible]	11-26-2014
[illegible]	11/26/14 1130	[illegible]	[illegible]
	11/26/14 1615	[illegible]	Orange County

ANALYSIS REQUIRED: EPA Method 18 / TO-12

Delta

11/23/2014
12:37 PM

4

Atmospheric Analysis & Consulting, Inc.

Client : Delta Air Quality Services
Client Project Name : PG&E Colusa Unit 1 and Unit 2
AAC Project No. : 141822
Reporting Date : 11/25/2014

On November 21, 2014, Atmospheric Analysis & Consulting, Inc. received eighteen (18) DNPH impinger contents for Formaldehyde analysis by CARB Method 430. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client Sample ID	AAC Sample ID	Client Sample ID	AAC Sample ID
1-Form-1 Vial 1	141822-75896	1-Form-2 Vial 1	141822-75905
1-Form-1 Vial 2	141822-75897	1-Form-2 Vial 2	141822-75906
2-Form-1 Vial 1	141822-75898	2-Form-2 Vial 1	141822-75907
2-Form-1 Vial 2	141822-75899	2-Form-2 Vial 2	141822-75908
3-Form-1 Vial 1	141822-75900	3-Form-2 Vial 1	141822-75909
3-Form-1 Vial 2	141822-75901	3-Form-2 Vial 2	141822-75910
1-Blank-1	141822-75902	1-Blank-2	141822-75911
2-Blank-1	141822-75903	2-Blank-2	141822-75912
3-Blank-1	141822-75904	3-Blank-2	141822-75913

CARB 430 – Upon receipt, Hexane / Methylene Chloride (70/30) was added to each vial. A portion of the organic layer was removed and concentrated to dryness under a stream of UHP Nitrogen. Carbonyl-free Acetonitrile was added to the dried samples. A 20µL aliquot of the extract was analyzed by HPLC/UV following CARB Method 430 as specified in the chain of custody. Holding times for preparation and analysis were complied with.

All samples were blank corrected for Formaldehyde using the method blank value.

The samples were received at 13.5 degrees Celsius above the recommended value of 4 degrees Celsius.

The DNPH solution was certified on 11/17/14 and recertified on 11/19/14.

Client Sample IDs 3-Form-1 Vial 2, 1-Form-2 Vial 2, 2-Form-2 Vial 1, and 1-Blank-2 (AAC Sample IDs 141822-75901, 141822-75906, 141822-75907, and 141822-75911) were reanalyzed for confirmation with the same results.

No other problems were encountered during receiving, preparation, and/or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# C.430.02.

I certify that this data is technically accurate, complete and in compliance with the terms and conditions of the contract. Release of the data contained in this hardcopy data package and its electronic data deliverable submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

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

Marcus Hueppe
Laboratory Director

This report consists of 7 pages.

1534 Eastman Ave., Ste. A • Ventura, • CA 93003 www.aaclab.com • (805) 650-1642 • FAX (805) 650-1644

Laboratory Analysis Report

CARB Method 430

Client : Delta Air Quality Services
Client Project Name : PG&E Colusa GT Unit 1and Unit 2
AAC Project No. : 141822
Analyst : EG/JZ
Units : ug/sample

Sampling Date : 11/18,20/2014
Receiving Date : 11/21/2014
Analysis Date : 11/24/2014
Reporting Date : 11/25/2014

Client Sample ID	AAC Sample ID	Formaldehyde (ug/sample)	SRL (ug/sample)
1-Form-1 Vial 1	141822-75896	0.147	0.100
1-Form-1 Vial 2	141822-75897	<SRL	0.100
2-Form-1 Vial 1	141822-75898	1.56	0.100
2-Form-1 Vial 2	141822-75899	0.248	0.100
3-Form-1 Vial 1	141822-75900	0.445	0.100
3-Form-1 Vial 2	141822-75901	1.33	0.100
1-Blank-1	141822-75902	<SRL	0.100
2-Blank-1	141822-75903	<SRL	0.100
3-Blank-1	141822-75904	<SRL	0.100
1-Form-2 Vial 1	141822-75905	0.419	0.100
1-Form-2 Vial 2	141822-75906	1.11	0.100
2-Form-2 Vial 1	141822-75907	10.8	0.100
2-Form-2 Vial 2	141822-75908	0.115	0.100
3-Form-2 Vial 1	141822-75909	1.18	0.100
3-Form-2 Vial 2	141822-75910	0.399	0.100
1-Blank-2	141822-75911	1.32	0.100
2-Blank-2	141822-75912	0.265	0.100
3-Blank-2	141822-75913	0.181	0.100
AAC Trip Blank		<SRL	0.100
AAC Trip Spike		101 %Recovery	0.250

<SRL-compound was analyzed for but not detected at or above the SRL (Sample Reporting Limit)

SRL (ug/sample) = MRL (0.025ug/mL) x Sample Volume (mL) x Analysis Dilution Factor x Method Dilution Factor

All samples were blank corrected for Formaldehyde using the method blank value.

Marcus Hueppe
Laboratory Director

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Quality Control/Quality Assurance Report
CARB Method 430
HPLC Calibration Verification of the 07/25/2014 Calibration

Analysis Date : 11/24/2014 Instrument ID : HPLC 02
Analyst : EG/JZ

Sample ID	Analyte	Theoretical Concentration (ug/mL)	Measured Concentration (ug/mL)	Percent Recovery (%)*
Opening CV	Formaldehyde	2.50	2.48	99.3
	Acetaldehyde	2.50	2.47	98.9
Continuing CV	Formaldehyde	2.50	2.54	102
	Acetaldehyde	2.50	2.50	100
Continuing CV	Formaldehyde	2.50	2.68	107
	Acetaldehyde	2.50	2.64	106
Continuing CV	Formaldehyde	2.50	2.59	104
	Acetaldehyde	2.50	2.55	102
Continuing CV	Formaldehyde	2.50	2.63	105
	Acetaldehyde	2.50	2.60	104
Continuing CV	Formaldehyde	2.50	2.53	101
	Acetaldehyde	2.50	2.49	99.5
Continuing CV	Formaldehyde	2.50	2.57	103
	Acetaldehyde	2.50	2.53	101
Continuing CV	Formaldehyde	2.50	2.73	109
	Acetaldehyde	2.50	2.67	107
Continuing CV	Formaldehyde	2.50	2.60	104
	Acetaldehyde	2.50	2.59	104
Closing CV	Formaldehyde	2.50	2.75	110
	Acetaldehyde	2.50	2.75	110
Second Source	Formaldehyde	2.50	2.63	105
	Acetaldehyde	2.50	2.59	104

* Must be 90 - 110 %
Second Source must be 85 - 115 %

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
CARB Method 430

Analysis Date : 11/24/2014 Analyst : EG/JZ Instrument ID : HPLC 02

Laboratory Control Spike Analysis

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
LCS 1							
Formaldehyde	0.000	1.25	1.24	1.21	99.2	96.5	2.8
Acetaldehyde	0.000	1.25	1.24	1.21	99.1	96.7	2.4
Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
LCS 2							
Formaldehyde	0.000	1.25	1.22	1.22	97.7	97.8	0.1
Acetaldehyde	0.000	1.25	1.23	1.23	98.4	98.2	0.2

* Must be 85-115%
** Must be ≤ 25%

Matrix Spike Analysis

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
Matrix Spike Analysis (141822-75896)							
Formaldehyde	0.057	1.25	1.31	1.30	100	99.5	1.0
Acetaldehyde	0.119	1.25	1.37	1.35	100	98.9	1.3
Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
Matrix Spike Analysis (141824-75918)							
Formaldehyde	2.63	1.25	3.93	3.84	103	96.2	7.3
Acetaldehyde	0.385	1.25	1.61	1.60	97.8	97.4	0.4

* Must be 75-125%
** Must be ≤ 25%

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
CARB Method 430

Analysis Date : 11/24/2014 Instrument ID : HPLC 02
Analyst : EG/JZ

Duplicate Analysis

Sample ID	Analyte	Sample Concentration (ug/mL)	Duplicate Concentration (ug/mL)	%RPD*
141822-75896	Formaldehyde	0.118	0.109	7.3
	Acetaldehyde	0.234	0.240	2.7
141822-75903	Formaldehyde	0.082	0.083	1.0
	Acetaldehyde	0.213	0.214	0.3
141822-75906	Formaldehyde	0.360	0.359	0.1
	Acetaldehyde	0.420	0.417	0.6
141824-75918	Formaldehyde	10.5	10.6	0.5
	Acetaldehyde	0.773	0.768	0.7
141824-75932	Formaldehyde	0.039	0.039	0.5
	Acetaldehyde	0.037	0.037	1.1
141824-75922	Formaldehyde	10.8	10.8	0.1
	Acetaldehyde	0.908	0.912	0.4

* Must be <20%

System and Method Blank Analysis

Sample ID	Analyte	Concentration (ug/mL)	RL / SRL (ug/mL)
Opening Acetonitrile Blank	Formaldehyde	<RL	0.025
	Acetaldehyde	<RL	0.025
Method Blank 1	Formaldehyde	0.081	0.025
	Acetaldehyde	0.072	0.025
Method Blank 2	Formaldehyde	0.074	0.025
	Acetaldehyde	0.068	0.025
Closing Acetonitrile Blank	Formaldehyde	<RL	0.025
	Acetaldehyde	<RL	0.025

RL - Reporting Limit
SRL - Sample Reporting Limit

Marcus Hueppe
Laboratory Director

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AAC# 141822

CT1 Aldehydes
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E Colusa

TEST DATE(S): 11/18/2014

LOCATION: GT Unit 1

SAMPLER(S): RMo

SAMPLE LOCATION: CT1 Stack

PROJECT MANAGER: John Peterson

TEST METHOD(S): CARB 430

DATE DUE: 11/23/2014

OUTSIDE LAB REQUIRED?: AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/18/2014		1-Form-1	Vial 1 75896	1	RMo	DNPH
11/18/2014		1-Form-1	Vial 2 75897	1	RMo	DNPH
11/18/2014		2-Form-1	Vial 1 75898	1	RMo	DNPH
11/18/2014		2-Form-1	Vial 2 75899	1	RMo	DNPH
11/18/2014		3-Form-1	Vial 1 75900	1	RMo	DNPH
11/18/2014		3-Form-1	Vial 2 75901	1	RMo	DNPH
11/18/2014		1-Blank-1	Vial 75902	1	RMo	DNPH
11/18/2014		2-Blank-1	Vial 75903	1	RMo	DNPH
11/18/2014		3-Blank-1	Vial 75904	1	RMo	DNPH

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	11/20/14 1420	[signature] FedEx	11/21/14 1000
		13.5°C	

ANALYSIS REQUIRED:

Note: Samples must be analyzed by 11/23/2014

Delta Air Quality Services, Incorporated

11/20/2014
1:42 PM

AAC# 141822

Aldehydes
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E Colusa

TEST DATE(S): 11/20/2014

LOCATION: GT Unit 2

SAMPLER(S): RD

SAMPLE LOCATION: CT2 Stack

PROJECT MANAGER: John Peterson

TEST METHOD(S): CARB 430

DATE DUE: 11/25/2014

OUTSIDE LAB REQUIRED?: AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/20/2014		1-Form-2	Vial 1 75905	1	RD	DNPH
11/20/2014		1-Form-2	Vial 2 75906	1	RD	DNPH
11/20/2014		2-Form-2	Vial 1 75907	1	RD	DNPH
11/20/2014		2-Form-2	Vial 2 75908	1	RD	DNPH
11/20/2014		3-Form-2	Vial 1 75909	1	RD	DNPH
11/20/2014		3-Form-2	Vial 2 75910	1	RD	DNPH
11/20/2014		1-Blank-2	Vial 75911	1	RD	DNPH
11/20/2014		2-Blank-2	Vial 75912	1	RD	DNPH
11/20/2014		3-Blank-2	Vial 75913	1	RD	DNPH

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	11/20/14 1420	[signature] FedEx	11/21/14 1900
		13.5°C	

ANALYSIS REQUIRED:

Note: Samples must be analyzed by 11/25/2014

Delta Air Quality Services, Incorporated

11/20/2014
1:40 PM

2014 PG&E HBGS Comp ICE10
C of C HxCy (2)

CHAIN OF CUSTODY

CLIENT: PG&E HBGS

TEST DATE(S): 11/25/2014 ~~1/0/1900~~ JP

LOCATION: ICE 10

SAMPLER(S):

SAMPLE LOCATION:

PROJECT MANAGER: JP

TEST METHOD(S):

DATE DUE: 12/5/2014

OUTSIDE LAB REQUIRED?:

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/25/2014	10:30	4-VOC-50-U10	Tedlar Bag	1		13304-5

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1200		

ANALYSIS REQUIRED: C1-C_5 and C_{6+} full data package

Full Lab Data Package Required.

Note: Samples must be analyzed by 11/28/2014

Delta

11/25/2014
10:39 AM

2014 PG&E HBGS Comp ICE10
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E HBGS

TEST DATE(S): 11/24/2014 11/25/2014

LOCATION: ICE 10

SAMPLER(S):

SAMPLE LOCATION: Stack

PROJECT MANAGER: JP

TEST METHOD(S): EPA Method 18

DATE DUE: 12/4/2014

OUTSIDE LAB REQUIRED?: ATMAA

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/24/2014	15:40	1-VOC-50-Stk-U10	5 liter Tedlar Bag	1	RD	13354-2
11/24/2014	16:58	2-VOC-50-Stk-U10	5 liter Tedlar Bag	1	RD	-3
11/25/2014	10:25	3-VOC-50-Stk-U10	5 liter Tedlar Bag	1	RD	-4
11/24/2014	10:06	1-VOC-75-Stk-U10	5 liter Tedlar Bag	1	RD	-5
11/24/2014	11:17	2-VOC-75-Stk-U10	5 liter Tedlar Bag	1	RD	-6
11/24/2014	12:28	3-VOC-75-Stk-U10	5 liter Tedlar Bag	1	RD	-7
11/24/2014	14:10	1-VOC-95-Stk-U10	5 liter Tedlar Bag	1	RD	-8
11/24/2014	18:10	2-VOC-95-Stk-U10	5 liter Tedlar Bag	1	RD	-9
11/25/2014	9:10	3-VOC-95-Stk-U10	5 liter Tedlar Bag	1	RD	-10

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 11:00		

ANALYSIS REQUIRED: C1-C_5 and C_{6+} full data package

Full Lab Data Package Required.

Note: Samples must be analyzed by 11/27/2014

Delta

11/25/2014
9:32 AM

2014 PG&E HBGS Comp ICE2
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E HBGS

TEST DATE(S): 11/22/2014 11/23/2014

LOCATION: ICE 2

SAMPLER(S): MM

SAMPLE LOCATION: Stack

PROJECT MANAGER: JP

TEST METHOD(S): EPA Method 18

DATE DUE: 12/2/2014

OUTSIDE LAB REQUIRED?:

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/22/2014	13:40	1-VOC-50-Stk-U2	5 liter Tedlar Bag	1	RD	13294-3
11/22/2014	15:10	2-VOC-50-Stk-U2	5 liter Tedlar Bag	1	RD	-4
11/22/2014	16:35	3-VOC-50-Stk-U2	5 liter Tedlar Bag	1	RD	-5
11/22/2014	18:20	1-VOC-75-Stk-U2	5 liter Tedlar Bag	1	RD	-6
11/22/2014	20:05	2-VOC-75-Stk-U2	5 liter Tedlar Bag	1	RD	-7
11/22/2014	21:12	3-VOC-75-Stk-U2	5 liter Tedlar Bag	1	RD	-8
11/23/2014	9:45	1-VOC-95-Stk-U2	5 liter Tedlar Bag	1	RD	-9
11/23/2014	11:25	2-VOC-95-Stk-U2	5 liter Tedlar Bag	1	RD	-10
11/23/2014	12:50	3-VOC-95-Stk-U2	5 liter Tedlar Bag	1	RD	-11

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/24/14 0830	[illegible]	11/25/14 9:00

ANALYSIS REQUIRED: C1-C_5 and C_{6+} full data package

Full Lab Data Package Required.

Note: Samples must be analyzed by 11/25/2014

Delta Air Quality Services, Incorporated

11/24/2014
8:28 AM

Atmospheric Analysis & Consulting, Inc.

CLIENT : Delta Air Quality Services, Inc.
PROJECT NAME : Pacific Gas and Electric - Colusa
AAC PROJECT NO. : 141840
REPORT DATE : 12/02/2014

On November 26, 2014, Atmospheric Analysis & Consulting, Inc. received twelve (12) Six-Liter Summa Canisters for Methane, Ethane and TNMNEHC analysis by EPA method 18mod and TO-12M/PAMS Protocol. Upon receipt each sample was assigned a unique Laboratory ID number as follows:

Client ID	Lab ID	Initial Pressure (mmHga)
1-VOC-Base-1	141840-76029	638.1
2-VOC-Base-1	141840-76030	609.5
3-VOC-Base-1	141840-76031	567.0
1-VOC-Max-1	141840-76032	671.7
2-VOC-Max-1	141840-76033	586.6
3-VOC-Max-1	141840-76034	569.2
1-VOC-Base-2	141840-76035	559.6
2-VOC-Base-2	141840-76036	624.4
3-VOC-Base-2	141840-76037	568.0
1-VOC-Max-2	141840-76038	582.9
2-VOC-Max-2	141840-76039	573.9
3-VOC-Max-2	141840-76040	645.0

An initial reading of each canister's vacnum was taken and recorded. Subsequently, each canister was brought to positive pressure using UHP-He and the final pressure was recorded.

TNMNEHC analysis by GC/MS/FID- Up to a 500 mL aliquot of sample is concentrated, put through a water and CO_2 management system, cryofocused and injected into the GC/MS/FID for analysis following EPA method TO-12M/PAMS protocol for C2 to C12 speciated Hydrocarbons. Methane was analyzed by GC/FID following EPA method 18 mod.

No problems were encountered during receiving, preparation and/ or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP#PAMS.07 and EPA18mod.

I certify that this data is technically accurate, complete and in compliance witb the terms and conditions of the contract. The Laboratory Director or his designee, as verified by the following signature, has authorized the release of the data contained in this hardcopy data package.

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

Marcus Hueppe
Laboratory Director

This report consists of 11 pages.

ACCREDITED IN ACCORDANCE WITH nelac Certificate #E87837

Atmospheric Analysis & Consulting, Inc.

Laboratory Analysis Report
CARB Method 430

Client : Delta Air Quality Services
Client Project Name : PG&E Colusa GT Unit 1and Unit 2
AAC Project No. : 141822
Analyst : EG/JZ
Units : ug/sample

Sampling Date : 11/18,20/2014
Receiving Date : 11/21/2014
Analysis Date : 11/24/2014
Reporting Date : 11/25/2014

Client Sample ID	AAC Sample ID	Formaldehyde (ug/sample)	SRL (ug/sample)
1-Form-1 Vial 1	141822-75896	0.147	0.100
1-Form-1 Vial 2	141822-75897	<SRL	0.100
2-Form-1 Vial 1	141822-75898	1.56	0.100
2-Form-1 Vial 2	141822-75899	0.248	0.100
3-Form-1 Vial 1	141822-75900	0.445	0.100
3-Form-1 Vial 2	141822-75901	1.33	0.100
1-Blank-1	141822-75902	<SRL	0.100
2-Blank-1	141822-75903	<SRL	0.100
3-Blank-1	141822-75904	<SRL	0.100
1-Form-2 Vial 1	141822-75905	0.419	0.100
1-Form-2 Vial 2	141822-75906	1.11	0.100
2-Form-2 Vial 1	141822-75907	10.8	0.100
2-Form-2 Vial 2	141822-75908	0.115	0.100
3-Form-2 Vial 1	141822-75909	1.18	0.100
3-Form-2 Vial 2	141822-75910	0.399	0.100
1-Blank-2	141822-75911	1.32	0.100
2-Blank-2	141822-75912	0.265	0.100
3-Blank-2	141822-75913	0.181	0.100
AAC Trip Blank		<SRL	0.100
AAC Trip Spike		101 %Recovery	0.250

<SRL-compound was analyzed for but not detected at or above the SRL (Sample Reporting Limit)
SRL (ug/sample) = MRL (0.025ug/mL) x Sample Volume (mL) x Analysis Dilution Factor x Method Dilution Factor
All samples were blank corrected for Formaldehyde using the method blank value.

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
CARB Method 430
HPLC Calibration Verification of the 07/25/2014 Calibration

Analysis Date : 11/24/2014 Instrument ID : HPLC 02
Analyst : EG/JZ

Sample ID	Analyte	Theoretical Concentration (ug/mL)	Measured Concentration (ug/mL)	Percent Recovery (%)*
Opening CV	Formaldehyde	2.50	2.48	99.3
	Acetaldehyde	2.50	2.47	98.9
Continuing CV	Formaldehyde	2.50	2.54	102
	Acetaldehyde	2.50	2.50	100
Continuing CV	Formaldehyde	2.50	2.68	107
	Acetaldehyde	2.50	2.64	106
Continuing CV	Formaldehyde	2.50	2.59	104
	Acetaldehyde	2.50	2.55	102
Continuing CV	Formaldehyde	2.50	2.63	105
	Acetaldehyde	2.50	2.60	104
Continuing CV	Formaldehyde	2.50	2.53	101
	Acetaldehyde	2.50	2.49	99.5
Continuing CV	Formaldehyde	2.50	2.57	103
	Acetaldehyde	2.50	2.53	101
Continuing CV	Formaldehyde	2.50	2.73	109
	Acetaldehyde	2.50	2.67	107
Continuing CV	Formaldehyde	2.50	2.60	104
	Acetaldehyde	2.50	2.59	104
Closing CV	Formaldehyde	2.50	2.75	110
	Acetaldehyde	2.50	2.75	110
Second Source	Formaldehyde	2.50	2.63	105
	Acetaldehyde	2.50	2.59	104

* Must be 90 - 110 %
Second Source must be 85 - 115 %

Marcus Hueppe
Laboratory Director

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
CARB Method 430

Analysis Date : 11/24/2014 Analyst : EG/JZ Instrument ID : HPLC 02

Laboratory Control Spike Analysis

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
LCS 1							
Formaldehyde	0.000	1.25	1.24	1.21	99.2	96.5	2.8
Acetaldehyde	0.000	1.25	1.24	1.21	99.1	96.7	2.4
Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
LCS 2							
Formaldehyde	0.000	1.25	1.22	1.22	97.7	97.8	0.1
Acetaldehyde	0.000	1.25	1.23	1.23	98.4	98.2	0.2

* Must be 85-115%
** Must be ≤ 25%

Matrix Spike Analysis

Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
Matrix Spike Analysis (141822-75896)							
Formaldehyde	0.057	1.25	1.31	1.30	100	99.5	1.0
Acetaldehyde	0.119	1.25	1.37	1.35	100	98.9	1.3
Analyte	Theoretical Sample Concentration (ug/mL)	Theoretical Spike Concentration (ug/mL)	Measured Spike Concentration (ug/mL)	Measured Spike Dup Concentration (ug/mL)	Spike Recovery (%)*	Spike Dup Recovery (%)*	%RPD**
Matrix Spike Analysis (141824-75918)							
Formaldehyde	2.63	1.25	3.93	3.84	103	96.2	7.3
Acetaldehyde	0.385	1.25	1.61	1.60	97.8	97.4	0.4

* Must be 75-125%
** Must be ≤ 25%

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Atmospheric Analysis & Consulting, Inc.

Quality Control/Quality Assurance Report
CARB Method 430

Analysis Date : 11/24/2014 Instrument ID : HPLC 02
Analyst : EG/JZ

Duplicate Analysis

Sample ID	Analyte	Sample Concentration (ug/mL)	Duplicate Concentration (ug/mL)	%RPD*
141822-75896	Formaldehyde	0.118	0.109	7.3
	Acetaldehyde	0.234	0.240	2.7
141822-75903	Formaldehyde	0.082	0.083	1.0
	Acetaldehyde	0.213	0.214	0.3
141822-75906	Formaldehyde	0.360	0.359	0.1
	Acetaldehyde	0.420	0.417	0.6
141824-75918	Formaldehyde	10.5	10.6	0.5
	Acetaldehyde	0.773	0.768	0.7
141824-75932	Formaldehyde	0.039	0.039	0.5
	Acetaldehyde	0.037	0.037	1.1
141824-75922	Formaldehyde	10.8	10.8	0.1
	Acetaldehyde	0.908	0.912	0.4

* Must be <20%

System and Method Blank Analysis

Sample ID	Analyte	Concentration (ug/mL)	RL / SRL (ug/mL)
Opening Acetonitrile Blank	Formaldehyde	<RL	0.025
	Acetaldehyde	<RL	0.025
Method Blank 1	Formaldehyde	0.081	0.025
	Acetaldehyde	0.072	0.025
Method Blank 2	Formaldehyde	0.074	0.025
	Acetaldehyde	0.068	0.025
Closing Acetonitrile Blank	Formaldehyde	<RL	0.025
	Acetaldehyde	<RL	0.025

RL - Reporting Limit
SRL - Sample Reporting Limit

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Atmospheric Analysis & Consulting, Inc.

Client : Delta Air Quality Services
Client Project Name : PG&E Colusa Unit 1 and Unit 2
AAC Project No. : 141822
Reporting Date : 11/25/2014

On November 21, 2014, Atmospheric Analysis & Consulting, Inc. received eighteen (18) DNPH impinger contents for Formaldehyde analysis by CARB Method 430. Upon receipt, the samples were assigned unique Laboratory ID numbers as follows:

Client Sample ID	AAC Sample ID	Client Sample ID	AAC Sample ID
1-Form-1 Vial 1	141822-75896	1-Form-2 Vial 1	141822-75905
1-Form-1 Vial 2	141822-75897	1-Form-2 Vial 2	141822-75906
2-Form-1 Vial 1	141822-75898	2-Form-2 Vial 1	141822-75907
2-Form-1 Vial 2	141822-75899	2-Form-2 Vial 2	141822-75908
3-Form-1 Vial 1	141822-75900	3-Form-2 Vial 1	141822-75909
3-Form-1 Vial 2	141822-75901	3-Form-2 Vial 2	141822-75910
1-Blank-1	141822-75902	1-Blank-2	141822-75911
2-Blank-1	141822-75903	2-Blank-2	141822-75912
3-Blank-1	141822-75904	3-Blank-2	141822-75913

CARB 430 – Upon receipt, Hexane / Methylene Chloride (70/30) was added to each vial. A portion of the organic layer was removed and concentrated to dryness under a stream of UHP Nitrogen. Carbonyl-free Acetonitrile was added to the dried samples. A 20µL aliquot of the extract was analyzed by HPLC/UV following CARB Method 430 as specified in the chain of custody. Holding times for preparation and analysis were complied with.

All samples were blank corrected for Formaldehyde using the method blank value.

The samples were received at 13.5 degrees Celsius above the recommended value of 4 degrees Celsius.

The DNPH solution was certified on 11/17/14 and recertified on 11/19/14.

Client Sample IDs 3-Form-1 Vial 2, 1-Form-2 Vial 2, 2-Form-2 Vial 1, and 1-Blank-2 (AAC Sample IDs 141822-75901, 141822-75906, 141822-75907, and 141822-75911) were reanalyzed for confirmation with the same results.

No other problems were encountered during receiving, preparation, and/or analysis of these samples. The test results included in this report meet all requirements of the NELAC Standards and/or AAC SOP# C.430.02.

I certify that this data is technically accurate, complete and in compliance with the terms and conditions of the contract. Release of the data contained in this hardcopy data package and its electronic data deliverable submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

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

Marcus Hueppe
Laboratory Director

This report consists of 7 pages.

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APPENDIX G CEMS DATA LOGGER DATA

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	8:52:00	-0.012	0.02	-0.001	-0.011	0	
11/17/2014	8:53:00	-0.015	0.02	0.005	-0.013	-0.001	
11/17/2014	8:54:00	-0.018	0.02	0.008	-0.015	0.005	
11/17/2014	8:55:00	-0.02	0.03	0.005	-0.015	0.002	
11/17/2014	8:56:00	-0.022	0.021	0.003	-0.01	-0.004	
11/17/2014	8:57:00	14.995	7.981	0.871	3.48	2.33	
11/17/2014	8:58:00	18.502	9.394	4.953	9.455	4.818	
11/17/2014	8:59:00	18.893	9.403	4.824	9.476	4.881	
11/17/2014	9:00:00	18.965	9.404	4.839	9.475	4.889	Direct High
11/17/2014	9:01:00	6.081	2.699	4.517	7.213	3.906	
11/17/2014	9:02:00	0.039	0.042	1.443	0.058	0.476	
11/17/2014	9:03:00	0.012	0.04	0.017	-0.014	-0.002	Direct Zero
11/17/2014	9:04:00	2.665	1.46	0.016	0.015	0.198	
11/17/2014	9:05:00	9.914	5.042	2.222	3.386	1.849	
11/17/2014	9:06:00	9.94	5.047	2.47	4.252	2.498	
11/17/2014	9:07:00	9.945	5.054	2.467	4.248	2.499	
11/17/2014	9:08:00	9.947	5.062	2.466	4.248	2.492	Direct Mid
11/17/2014	9:09:00	14.616	2.929	2.469	4.148	2.484	
11/17/2014	9:10:00	20.574	0.179	2.649	3.647	0.432	
11/17/2014	9:11:00	20.569	0.188	3.197	6.791	0.058	
11/17/2014	9:12:00	20.573	0.195	3.363	9.559	0.04	Direct NO2
11/17/2014	9:13:00	20.57	0.208	3.36	9.688	0.034	
11/17/2014	9:14:00	20.563	0.221	3.37	9.689	0.038	Direct CO High/ Direct N
11/17/2014	9:15:00	20.655	0.228	2.873	5.73	0.038	
11/17/2014	9:16:00	20.706	0.154	0.497	-0.014	0.04	Direct Zero
11/17/2014	9:17:00	20.71	0.152	0.445	-0.021	0.038	
11/17/2014	9:18:00	20.713	0.16	0.343	1.408	0.029	
11/17/2014	9:19:00	20.714	0.161	0.291	4.336	0.02	
11/17/2014	9:20:00	20.71	0.169	0.25	5.248	0.019	
11/17/2014	9:21:00	20.709	0.17	2.452	2.882	0.029	
11/17/2014	9:22:00	20.711	0.173	3.474	1.364	0.039	
11/17/2014	9:23:00	20.712	0.181	3.423	6.095	0.027	Direct NO2
11/17/2014	9:24:00	20.744	0.19	1.747	9.392	0.026	
11/17/2014	9:25:00	20.77	0.19	0.158	9.472	0.018	Direct High CO
11/17/2014	9:26:00	20.768	0.188	0.206	6.35	0.02	
11/17/2014	9:27:00	20.775	0.184	0.211	0.027	0.067	Direct CO Zero
11/17/2014	9:28:00	20.468	0.185	0.518	2.33	0.293	
11/17/2014	9:29:00	20.945	0.19	0.791	4.621	0.405	
11/17/2014	9:30:00	20.827	0.193	0.679	4.643	0.326	Direct CO Mid
11/17/2014	9:31:00	20.839	0.194	0.577	4.644	0.286	
11/17/2014	9:32:00	20.85	0.198	0.489	4.643	0.218	
11/17/2014	9:33:00	20.801	0.205	0.425	4.639	0.175	
11/17/2014	9:34:00	20.803	0.202	0.389	4.644	0.162	
11/17/2014	9:35:00	20.827	0.212	0.356	4.633	0.131	
11/17/2014	9:36:00	20.962	0.21	0.326	4.639	0.134	
11/17/2014	9:37:00	20.875	0.211	0.302	4.637	0.122	
11/17/2014	9:38:00	20.987	0.225	0.283	4.593	0.098	
11/17/2014	9:39:00	20.993	0.229	0.271	4.546	0.104	
11/17/2014	9:40:00	21.017	0.23	0.245	4.507	0.09	
11/17/2014	9:41:00	20.982	0.233	0.236	4.464	0.075	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	9:42:00	21.025	0.24	0.232	4.421	0.069	
11/17/2014	9:43:00	20.969	0.24	0.225	4.379	0.075	
11/17/2014	9:44:00	20.974	0.249	0.215	4.334	0.058	
11/17/2014	9:45:00	21.042	0.243	0.207	4.295	0.055	
11/17/2014	9:46:00	21.048	0.257	0.213	4.257	0.059	
11/17/2014	9:47:00	21.059	0.255	0.193	4.215	0.058	
11/17/2014	9:48:00	21.064	0.26	0.198	4.176	0.053	
11/17/2014	9:49:00	21.07	0.26	0.196	4.128	0.054	
11/17/2014	9:50:00	21.081	0.263	0.186	4.088	0.064	
11/17/2014	9:51:00	21.084	0.27	0.18	4.052	0.052	
11/17/2014	9:52:00	21.088	0.268	0.185	4.015	0.051	
11/17/2014	9:53:00	21.095	0.27	0.174	3.98	0.046	
11/17/2014	9:54:00	21.053	0.279	0.171	3.945	0.052	
11/17/2014	9:55:00	21.057	0.28	0.156	3.91	0.053	
11/17/2014	9:56:00	21.092	0.29	0.153	3.874	0.047	
11/17/2014	9:57:00	21.062	0.299	0.169	3.838	0.049	
11/17/2014	9:58:00	21.105	0.29	0.149	3.801	0.047	
11/17/2014	9:59:00	21.072	0.294	0.157	3.765	0.051	
11/17/2014	10:00:00	21.107	0.3	0.149	3.732	0.052	
11/17/2014	10:01:00	21.082	0.292	0.148	3.696	0.047	
11/17/2014	10:02:00	21.054	0.3	0.142	3.66	0.06	
11/17/2014	10:03:00	21.121	0.3	0.146	3.627	0.053	
11/17/2014	10:04:00	21.096	0.309	0.141	3.591	0.043	
11/17/2014	10:05:00	20.995	0.301	0.136	3.558	0.049	
11/17/2014	10:06:00	21.061	0.315	0.134	3.526	0.042	
11/17/2014	10:07:00	20.968	0.268	0.177	3.009	0.223	
11/17/2014	10:08:00	20.714	0.515	0.22	0.217	0.073	
11/17/2014	10:09:00	12.635	4.074	0.136	-0.08	0.014	
11/17/2014	10:10:00	11.784	4.51	0.188	-0.184	0.054	Sys O2/CO2
11/17/2014	10:11:00	8.141	3.024	0.681	-0.105	0.433	
11/17/2014	10:12:00	6.386	2.173	2.095	0.018	1.695	
11/17/2014	10:13:00	13.915	4.177	1.785	0.139	1.393	
11/17/2014	10:14:00	13.952	4.185	1.193	0.168	0.917	
11/17/2014	10:15:00	13.961	4.163	1.19	0.166	0.904	
11/17/2014	10:16:00	14.883	3.702	1.025	0.146	0.893	
11/17/2014	10:17:00	12.619	3.962	1.172	0.153	0.981	
11/17/2014	10:18:00	14.803	2.825	0.916	-0.068	0.326	
11/17/2014	10:19:00	20.888	0.262	0.235	0.077	0.02	
11/17/2014	10:20:00	20.152	0.26	0.27	0.105	0.052	
11/17/2014	10:21:00	21.141	0.266	0.39	0.107	0.2	
11/17/2014	10:22:00	21.182	0.27	0.338	0.105	0.168	
11/17/2014	10:23:00	21.229	0.267	0.291	0.103	0.145	
11/17/2014	10:24:00	21.148	0.266	0.253	0.1	0.117	
11/17/2014	10:25:00	20.988	0.274	0.219	0.105	0.09	
11/17/2014	10:26:00	21.191	0.284	0.19	0.105	0.07	
11/17/2014	10:27:00	21.213	0.289	0.181	0.102	0.071	
11/17/2014	10:28:00	21.206	0.292	0.167	0.101	0.056	
11/17/2014	10:29:00	21.196	0.292	0.159	0.101	0.051	
11/17/2014	10:30:00	21.188	0.3	0.161	0.099	0.052	
11/17/2014	10:31:00	21.183	0.3	0.137	0.101	0.043	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	10:32:00	21.087	0.31	0.143	0.106	0.04	
11/17/2014	10:33:00	20.847	0.269	0.117	0.106	0.029	
11/17/2014	10:34:00	21.012	0.259	0.081	0.104	0.032	
11/17/2014	10:35:00	20.866	0.253	0.056	0.103	0.032	
11/17/2014	10:36:00	20.872	0.249	0.024	0.107	0.001	
11/17/2014	10:37:00	20.857	0.252	0.036	0.104	0.001	
11/17/2014	10:38:00	20.993	0.256	0.084	0.107	0.051	
11/17/2014	10:39:00	21.237	0.261	0.151	0.107	0.086	
11/17/2014	10:40:00	21.169	0.261	0.147	0.11	0.055	
11/17/2014	10:41:00	21.215	0.256	0.144	0.106	0.051	
11/17/2014	10:42:00	20.996	0.261	0.134	0.108	0.037	
11/17/2014	10:43:00	21.059	0.261	0.14	0.11	0.036	
11/17/2014	10:44:00	21.016	0.257	0.138	0.104	0.04	
11/17/2014	10:45:00	21.11	0.261	0.138	0.104	0.035	
11/17/2014	10:46:00	21.145	0.266	0.115	0.106	0.031	
11/17/2014	10:47:00	20.895	0.262	0.126	0.103	0.037	
11/17/2014	10:48:00	21.009	0.27	0.116	0.107	0.026	
11/17/2014	10:49:00	20.889	0.263	0.109	0.104	0.027	
11/17/2014	10:50:00	20.833	0.262	0.114	0.099	0.027	
11/17/2014	10:51:00	20.829	0.269	0.097	0.103	0.025	
11/17/2014	10:52:00	20.824	0.27	0.103	0.104	0.02	
11/17/2014	10:53:00	20.914	0.269	0.119	0.108	0.025	
11/17/2014	10:54:00	21.12	0.275	0.109	0.107	0.022	
11/17/2014	10:55:00	21.108	0.28	0.102	0.109	0.02	
11/17/2014	10:56:00	21.089	0.28	0.106	0.108	0.014	
11/17/2014	10:57:00	21.072	0.271	0.103	0.112	0.023	
11/17/2014	10:58:00	21.033	0.273	0.103	0.112	0.028	
11/17/2014	10:59:00	20.833	0.277	0.086	0.108	0.021	
11/17/2014	11:00:00	21.026	0.278	0.085	0.102	0.004	
11/17/2014	11:01:00	21.123	0.28	0.096	0.11	0.02	
11/17/2014	11:02:00	21.041	0.284	0.093	0.107	0.02	
11/17/2014	11:03:00	20.952	0.283	0.089	0.105	0.013	
11/17/2014	11:04:00	20.873	0.283	0.092	0.109	0.016	
11/17/2014	11:05:00	20.821	0.282	0.09	0.108	0.013	
11/17/2014	11:06:00	20.819	0.29	0.091	0.112	0.013	
11/17/2014	11:07:00	20.813	0.29	0.085	0.111	0.003	
11/17/2014	11:08:00	20.926	0.292	0.081	0.112	0.025	
11/17/2014	11:09:00	21.048	0.29	0.086	0.112	0.014	
11/17/2014	11:10:00	21.037	0.294	0.071	0.11	0.016	
11/17/2014	11:11:00	21.053	0.291	0.084	0.112	0.014	
11/17/2014	11:12:00	21.004	0.284	0.085	0.107	0.015	
11/17/2014	11:13:00	21.117	0.267	0.042	0.11	0.046	
11/17/2014	11:14:00	21.149	0.27	0.087	0.108	0.022	
11/17/2014	11:15:00	21.111	0.267	0.088	0.109	0.015	
11/17/2014	11:16:00	21.132	0.262	0.084	0.109	0.016	
11/17/2014	11:17:00	21.059	0.264	0.075	0.111	0.015	
11/17/2014	11:18:00	21.456	0.27	0.062	0.113	0.011	
11/17/2014	11:19:00	21.734	0.263	0.073	0.119	0.008	
11/17/2014	11:20:00	21.704	0.266	0.088	0.113	0.013	
11/17/2014	11:21:00	21.067	0.268	0.085	0.119	0.011	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	11:22:00	21.058	0.26	0.081	0.113	0.011	
11/17/2014	11:23:00	21.744	0.27	0.102	0.113	0.016	
11/17/2014	11:24:00	21.362	0.27	0.075	0.112	0.016	
11/17/2014	11:25:00	21.185	0.259	0.085	0.109	0.018	
11/17/2014	11:26:00	14.601	4.078	0.564	0.11	0.287	
11/17/2014	11:27:00	10.456	5.046	0.746	-0.153	0.447	
11/17/2014	11:28:00	10.452	5.07	0.064	-0.22	0.045	Sys O2/CO2
11/17/2014	11:29:00	5.558	1.852	0.487	-0.123	1.035	
11/17/2014	11:30:00	3.859	1.284	2.001	-0.02	2.024	
11/17/2014	11:31:00	3.32	1.141	2.077	-0.025	2.105	
11/17/2014	11:32:00	1.256	0.485	2.197	-0.03	2.169	
11/17/2014	11:33:00	0.076	0.194	2.421	-0.01	2.475	Sys NOx
11/17/2014	11:34:00	2.578	1.74	2.447	-0.03	2.293	
11/17/2014	11:35:00	10.065	5.114	1.309	-0.235	0.682	
11/17/2014	11:36:00	10.097	5.136	0.007	-0.257	-0.013	Sys O2/CO2
11/17/2014	11:37:00	14.272	3.124	0.221	-0.253	0.046	
11/17/2014	11:38:00	22.101	0.201	2.105	-0.019	0.371	
11/17/2014	11:39:00	22.141	0.186	2.976	0.029	0.365	Sys NO2
11/17/2014	11:40:00	18.939	2.033	3.038	0.036	0.439	
11/17/2014	11:41:00	14.173	4.146	1.378	0.145	0.957	
11/17/2014	11:42:00	14.163	4.147	1.033	0.147	0.928	
11/17/2014	11:43:00	14.163	4.15	1.037	0.143	0.921	
11/17/2014	11:44:00	14.163	4.155	1.044	0.14	0.928	
11/17/2014	11:45:00	14.168	4.152	1.061	0.142	0.945	
11/17/2014	11:46:00	14.174	4.142	1.051	0.137	0.937	
11/17/2014	11:47:00	14.18	4.142	1.044	0.137	0.923	
11/17/2014	11:48:00	14.189	4.132	1.041	0.134	0.903	
11/17/2014	11:49:00	14.195	4.131	1.02	0.132	0.921	
11/17/2014	11:50:00	14.214	4.077	1.019	0.131	0.905	
11/17/2014	11:51:00	17.809	2.166	0.907	0.076	0.453	
11/17/2014	11:52:00	14.217	4.117	0.86	0.132	0.669	
11/17/2014	11:53:00	14.208	4.125	0.857	0.141	0.805	
11/17/2014	11:54:00	14.204	4.127	0.862	0.144	0.798	
11/17/2014	11:55:00	14.2	4.124	0.874	0.141	0.801	
11/17/2014	11:56:00	14.196	4.128	0.868	0.138	0.787	
11/17/2014	11:57:00	14.193	4.13	0.866	0.143	0.801	
11/17/2014	11:58:00	14.192	4.128	0.863	0.149	0.8	
11/17/2014	11:59:00	14.194	4.124	0.871	0.138	0.805	
11/17/2014	12:00:00	14.203	4.12	0.882	0.141	0.804	
11/17/2014	12:01:00	19.243	1.233	0.738	0.087	0.406	
11/17/2014	12:02:00	14.379	4.091	0.428	0.103	0.598	
11/17/2014	12:03:00	14.214	4.107	0.865	0.149	0.797	
11/17/2014	12:04:00	14.215	4.117	0.876	0.147	0.8	
11/17/2014	12:05:00	14.212	4.108	0.838	0.149	0.786	
11/17/2014	12:06:00	14.207	4.116	0.871	0.146	0.793	
11/17/2014	12:07:00	14.201	4.112	0.845	0.147	0.789	
11/17/2014	12:08:00	14.197	4.124	0.834	0.153	0.773	
11/17/2014	12:09:00	14.19	4.125	0.842	0.149	0.777	
11/17/2014	12:10:00	14.19	4.128	0.853	0.149	0.768	
11/17/2014	12:11:00	14.173	4.088	0.848	0.149	0.77	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	12:12:00	16.541	2.818	0.604	0.098	0.547	
11/17/2014	12:13:00	14.18	4.11	0.882	0.133	0.921	
11/17/2014	12:14:00	14.177	4.113	1.001	0.134	0.901	
11/17/2014	12:15:00	14.179	4.118	0.993	0.134	0.899	
11/17/2014	12:16:00	14.174	4.123	1	0.132	0.905	
11/17/2014	12:17:00	14.18	4.116	0.985	0.13	0.897	
11/17/2014	12:18:00	14.188	4.109	0.988	0.135	0.903	
11/17/2014	12:19:00	14.189	4.114	0.984	0.127	0.905	
11/17/2014	12:20:00	14.182	4.126	0.976	0.133	0.885	
11/17/2014	12:21:00	14.18	4.126	0.973	0.132	0.88	
11/17/2014	12:22:00	13.408	4.22	0.976	0.09	0.753	
11/17/2014	12:23:00	10.14	5.097	0.22	-0.248	0.043	
11/17/2014	12:24:00	10.138	5.097	0.012	-0.275	-0.007	Sys O2/CO2
11/17/2014	12:25:00	5.793	2.641	0.419	-0.258	0.013	
11/17/2014	12:26:00	0.071	0.163	2.428	-0.068	2.079	
11/17/2014	12:27:00	0.037	0.153	2.464	-0.035	2.493	Sys NOx
11/17/2014	12:28:00	9.313	0.15	2.464	-0.024	2.118	
11/17/2014	12:29:00	22.141	0.142	2.821	0.015	0.255	
11/17/2014	12:30:00	22.18	0.148	2.981	0.016	0.194	Sys NO2
11/17/2014	12:31:00	21.826	0.157	2.769	0.022	0.189	
11/17/2014	12:32:00	21.221	0.183	2.451	0.071	0.033	
11/17/2014	12:33:00	21.287	0.19	3.316	0.074	-0.006	Direct NO2
11/17/2014	12:34:00	19.462	0.2	2.892	0.072	0.68	
11/17/2014	12:35:00	14.288	0.2	2.461	0.074	2.492	Direct NOx
11/17/2014	12:36:00	14.244	1.019	2.133	0.074	1.623	
11/17/2014	12:37:00	14.123	4.11	0.092	0.108	-0.015	Direct Zero
11/17/2014	12:38:00	14.127	4.116	0.494	0.134	0.163	
11/17/2014	12:39:00	14.129	4.128	0.992	0.128	0.88	
11/17/2014	12:40:00	14.132	4.122	0.993	0.135	0.892	
11/17/2014	12:41:00	14.131	4.116	0.982	0.13	0.886	
11/17/2014	12:42:00	14.135	4.112	0.997	0.134	0.885	
11/17/2014	12:43:00	14.139	4.118	1	0.131	0.877	
11/17/2014	12:44:00	14.143	4.12	1.003	0.128	0.882	
11/17/2014	12:45:00	14.146	4.116	0.999	0.125	0.884	
11/17/2014	12:46:00	14.147	4.126	0.985	0.131	0.867	
11/17/2014	12:47:00	14.147	4.121	0.982	0.125	0.868	
11/17/2014	12:48:00	14.148	4.119	0.985	0.124	0.867	
11/17/2014	12:49:00	14.178	4.031	0.996	0.13	0.85	
11/17/2014	12:50:00	15.105	3.668	0.939	0.116	0.525	
11/17/2014	12:51:00	14.154	4.118	0.879	0.146	0.767	
11/17/2014	12:52:00	14.156	4.118	0.884	0.135	0.784	
11/17/2014	12:53:00	14.151	4.118	0.874	0.137	0.783	
11/17/2014	12:54:00	14.152	4.117	0.871	0.138	0.788	
11/17/2014	12:55:00	14.15	4.118	0.869	0.139	0.786	
11/17/2014	12:56:00	14.143	4.114	0.872	0.132	0.777	
11/17/2014	12:57:00	14.142	4.121	0.866	0.137	0.806	
11/17/2014	12:58:00	14.138	4.124	0.886	0.137	0.803	
11/17/2014	12:59:00	14.434	3.747	0.872	0.134	0.789	
11/17/2014	13:00:00	15.603	3.505	0.908	0.096	0.331	
11/17/2014	13:01:00	14.135	4.121	0.894	0.126	0.815	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	13:02:00	14.142	4.116	0.881	0.142	0.801	
11/17/2014	13:03:00	14.138	4.115	0.895	0.133	0.82	
11/17/2014	13:04:00	14.14	4.114	0.891	0.132	0.803	
11/17/2014	13:05:00	14.138	4.117	0.883	0.131	0.805	
11/17/2014	13:06:00	14.139	4.115	0.875	0.13	0.801	
11/17/2014	13:07:00	14.129	4.12	0.878	0.131	0.8	
11/17/2014	13:08:00	14.141	4.12	0.867	0.128	0.788	
11/17/2014	13:09:00	14.248	3.912	0.871	0.136	0.788	
11/17/2014	13:10:00	15.612	3.448	0.949	0.092	0.414	
11/17/2014	13:11:00	14.135	4.121	1.035	0.115	0.942	
11/17/2014	13:12:00	14.134	4.121	1.025	0.119	0.931	
11/17/2014	13:13:00	14.137	4.122	1.015	0.121	0.921	
11/17/2014	13:14:00	14.135	4.123	1.022	0.123	0.927	
11/17/2014	13:15:00	14.136	4.119	1.045	0.119	0.937	
11/17/2014	13:16:00	14.141	4.121	1.05	0.119	0.952	
11/17/2014	13:17:00	14.144	4.121	1.052	0.12	0.93	
11/17/2014	13:18:00	14.144	4.123	1.052	0.123	0.952	
11/17/2014	13:19:00	14.13	4.124	1.049	0.117	0.951	
11/17/2014	13:20:00	12.195	4.496	0.995	0.002	0.791	
11/17/2014	13:21:00	10.105	5.105	0.03	-0.282	0	
11/17/2014	13:22:00	5.86	2.692	0.03	-0.274	0.414	Sys O2/CO2 1321
11/17/2014	13:23:00	0.072	0.178	2.075	-0.084	2.474	
11/17/2014	13:24:00	0.032	0.16	2.473	-0.043	2.499	Sys NOx
11/17/2014	13:25:00	8.753	0.16	2.476	-0.038	2.493	
11/17/2014	13:26:00	22.04	0.151	2.6	0.009	0.61	
11/17/2014	13:27:00	22.092	0.16	2.825	0.001	0.226	
11/17/2014	13:28:00	19.606	1.671	2.903	0.001	0.311	Sys NO2
11/17/2014	13:29:00	14.139	4.117	1.421	0.1	0.914	
11/17/2014	13:30:00	14.117	4.127	1.101	0.119	0.984	
11/17/2014	13:31:00	14.127	4.127	1.063	0.114	0.959	
11/17/2014	13:32:00	14.134	4.124	1.058	0.117	0.949	
11/17/2014	13:33:00	14.141	4.126	1.037	0.114	0.946	
11/17/2014	13:34:00	14.15	4.123	1.029	0.115	0.945	
11/17/2014	13:35:00	14.155	4.119	1.019	0.119	0.94	
11/17/2014	13:36:00	14.161	4.121	1.027	0.119	0.938	
11/17/2014	13:37:00	14.168	4.122	1.032	0.122	0.943	
11/17/2014	13:38:00	14.195	4.049	1.036	0.115	0.94	
11/17/2014	13:39:00	15.489	3.461	0.936	0.099	0.897	
11/17/2014	13:40:00	14.183	4.12	0.913	0.126	0.842	
11/17/2014	13:41:00	14.184	4.117	0.891	0.127	0.826	
11/17/2014	13:42:00	14.184	4.123	0.893	0.128	0.81	
11/17/2014	13:43:00	14.179	4.122	0.891	0.128	0.812	
11/17/2014	13:44:00	14.173	4.127	0.887	0.122	0.822	
11/17/2014	13:45:00	14.168	4.129	0.895	0.135	0.828	
11/17/2014	13:46:00	14.162	4.129	0.903	0.13	0.811	
11/17/2014	13:47:00	14.156	4.13	0.882	0.14	0.816	
11/17/2014	13:48:00	14.151	4.131	0.896	0.127	0.826	
11/17/2014	13:49:00	15.486	3.384	0.904	0.103	0.556	
11/17/2014	13:50:00	14.151	4.125	0.893	0.125	0.747	
11/17/2014	13:51:00	14.147	4.128	0.891	0.137	0.839	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	13:52:00	14.147	4.125	0.898	0.133	0.831	
11/17/2014	13:53:00	14.146	4.132	0.919	0.126	0.825	
11/17/2014	13:54:00	14.144	4.138	0.909	0.13	0.83	
11/17/2014	13:55:00	14.146	4.134	0.912	0.128	0.836	
11/17/2014	13:56:00	14.147	4.142	0.9	0.128	0.824	
11/17/2014	13:57:00	14.153	4.135	0.901	0.129	0.826	
11/17/2014	13:58:00	14.163	4.132	0.894	0.128	0.832	
11/17/2014	13:59:00	15.912	3.161	0.888	0.108	0.798	
11/17/2014	14:00:00	14.183	4.127	0.889	0.101	0.93	
11/17/2014	14:01:00	14.176	4.131	1.033	0.114	0.94	
11/17/2014	14:02:00	14.18	4.133	1.035	0.116	0.958	
11/17/2014	14:03:00	14.182	4.131	1.033	0.112	0.933	
11/17/2014	14:04:00	14.183	4.131	1.023	0.113	0.928	
11/17/2014	14:05:00	14.182	4.13	1.023	0.113	0.936	
11/17/2014	14:06:00	14.183	4.13	1.034	0.116	0.922	
11/17/2014	14:07:00	14.181	4.131	1.029	0.127	0.933	
11/17/2014	14:08:00	13.941	4.089	1.024	0.097	0.861	
11/17/2014	14:09:00	10.164	5.097	0.522	-0.242	0.268	
11/17/2014	14:10:00	10.137	5.106	0.026	-0.303	-0.002	Sys O2/CO2
11/17/2014	14:11:00	4.894	2.23	0.44	-0.278	0.208	
11/17/2014	14:12:00	0.057	0.185	2.445	-0.077	2.15	
11/17/2014	14:13:00	0.024	0.173	2.456	-0.054	2.487	Sys NOx
11/17/2014	14:14:00	14.657	0.166	2.455	-0.034	2.099	
11/17/2014	14:15:00	22.087	0.166	2.722	-0.004	0.226	
11/17/2014	14:16:00	18.146	1.802	2.889	-0.003	0.209	Sys NO2
11/17/2014	14:17:00	10.138	5.114	2.732	-0.009	1.357	
11/17/2014	14:18:00	10.12	5.094	2.45	-0.003	2.483	Direct Mid
11/17/2014	14:19:00	2.248	0.825	2.036	-0.003	1.225	
11/17/2014	14:20:00	0.013	0.122	-0.011	-0.005	-0.016	Direct Zero
11/17/2014	14:21:00	10.452	3.447	0.834	0.029	-0.001	
11/17/2014	14:22:00	14.075	4.091	3.307	0.144	0.01	Direct NO2
11/17/2014	14:23:00	14.088	4.12	2.963	0.155	0.353	
11/17/2014	14:24:00	14.074	4.138	1.208	0.129	1.042	
11/17/2014	14:25:00	14.075	4.132	1.217	0.127	1.117	
11/17/2014	14:26:00	14.081	4.13	1.207	0.123	1.118	
11/17/2014	14:27:00	14.088	4.125	1.205	0.122	1.114	
11/17/2014	14:28:00	14.095	4.126	1.202	0.12	1.105	
11/17/2014	14:29:00	14.102	4.127	1.192	0.118	1.1	
11/17/2014	14:30:00	14.108	4.126	1.184	0.121	1.097	
11/17/2014	14:31:00	14.109	4.128	1.189	0.124	1.095	
11/17/2014	14:32:00	14.11	4.13	1.205	0.122	1.101	
11/17/2014	14:33:00	14.11	4.133	1.192	0.122	1.102	
11/17/2014	14:34:00	14.107	4.134	1.198	0.121	1.104	
11/17/2014	14:35:00	15.637	3.281	1.172	0.112	1.104	
11/17/2014	14:36:00	14.137	4.121	1.099	0.108	1.059	
11/17/2014	14:37:00	14.114	4.133	1.122	0.13	1.05	
11/17/2014	14:38:00	14.113	4.123	1.115	0.127	1.033	
11/17/2014	14:39:00	14.113	4.126	1.108	0.124	1.032	
11/17/2014	14:40:00	14.116	4.122	1.107	0.125	1.039	
11/17/2014	14:41:00	14.118	4.124	1.098	0.124	1.017	

1/6/2015
9:07 AM

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	14:42:00	14.12	4.119	1.098	0.124	1.018	
11/17/2014	14:43:00	14.12	4.12	1.106	0.12	1.03	
11/17/2014	14:44:00	14.117	4.122	1.1	0.12	1.028	
11/17/2014	14:45:00	15.558	3.32	1.103	0.103	0.773	
11/17/2014	14:46:00	14.114	4.118	1.106	0.126	0.97	
11/17/2014	14:47:00	14.104	4.121	1.158	0.129	1.065	
11/17/2014	14:48:00	14.107	4.12	1.139	0.123	1.057	
11/17/2014	14:49:00	14.105	4.119	1.12	0.123	1.05	
11/17/2014	14:50:00	14.109	4.114	1.125	0.12	1.061	
11/17/2014	14:51:00	14.112	4.109	1.11	0.117	1.051	
11/17/2014	14:52:00	14.111	4.113	1.115	0.113	1.043	
11/17/2014	14:53:00	14.109	4.115	1.101	0.117	1.04	
11/17/2014	14:54:00	14.114	4.12	1.114	0.12	1.047	
11/17/2014	14:55:00	15.793	3.188	1.111	0.088	0.744	
11/17/2014	14:56:00	14.121	4.116	1.135	0.102	1.018	
11/17/2014	14:57:00	14.118	4.112	1.243	0.114	1.142	
11/17/2014	14:58:00	14.12	4.112	1.248	0.106	1.178	
11/17/2014	14:59:00	14.12	4.113	1.32	0.11	1.257	
11/17/2014	15:00:00	14.125	4.113	1.248	0.111	1.139	
11/17/2014	15:01:00	14.136	4.109	1.254	0.112	1.141	
11/17/2014	15:02:00	14.138	4.108	1.246	0.104	1.142	
11/17/2014	15:03:00	14.141	4.107	1.241	0.104	1.15	
11/17/2014	15:04:00	14.14	4.108	1.238	0.104	1.13	
11/17/2014	15:05:00	12.192	4.537	1.104	-0.003	0.783	
11/17/2014	15:06:00	10.141	5.078	0.212	-0.308	0.068	
11/17/2014	15:07:00	10.124	5.084	0.003	-0.309	-0.005	Sys O2/CO2
11/17/2014	15:08:00	4.898	2.221	0.705	-0.284	-0.005	
11/17/2014	15:09:00	0.055	0.172	2.347	-0.088	2.44	
11/17/2014	15:10:00	0.008	0.156	2.454	-0.065	2.487	Sys NOx
11/17/2014	15:11:00	13.146	0.153	2.463	-0.05	1.791	
11/17/2014	15:12:00	22.061	0.147	2.711	-0.012	0.224	
11/17/2014	15:13:00	22.104	0.142	2.826	-0.019	0.166	Sys NO2
11/17/2014	15:14:00	18.433	2.226	2.563	-0.006	0.164	
11/17/2014	15:15:00	14.113	4.102	1.484	0.103	1.157	
11/17/2014	15:16:00	14.096	4.118	1.279	0.104	1.148	
11/17/2014	15:17:00	14.093	4.118	1.264	0.101	1.152	
11/17/2014	15:18:00	14.096	4.12	1.234	0.11	1.129	
11/17/2014	15:19:00	14.101	4.121	1.232	0.111	1.144	
11/17/2014	15:20:00	14.107	4.113	1.248	0.105	1.14	
11/17/2014	15:21:00	14.115	4.11	1.241	0.106	1.145	
11/17/2014	15:22:00	14.118	4.119	1.262	0.103	1.149	
11/17/2014	15:23:00	14.129	4.118	1.258	0.108	1.161	
11/17/2014	15:24:00	14.134	4.116	1.247	0.107	1.141	
11/17/2014	15:25:00	15.867	3.16	1.215	0.077	0.852	
11/17/2014	15:26:00	14.155	4.115	1.171	0.107	0.8	
11/17/2014	15:27:00	14.151	4.118	1.15	0.115	1.065	
11/17/2014	15:28:00	14.143	4.121	1.146	0.111	1.045	
11/17/2014	15:29:00	14.148	4.12	1.152	0.111	1.036	
11/17/2014	15:30:00	14.144	4.121	1.127	0.111	1.029	
11/17/2014	15:31:00	14.138	4.125	1.124	0.112	1.039	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	15:32:00	14.135	4.129	1.145	0.11	1.058	
11/17/2014	15:33:00	14.124	4.133	1.169	0.111	1.06	
11/17/2014	15:34:00	14.126	4.13	1.147	0.112	1.036	
11/17/2014	15:35:00	15.8	3.198	1.064	0.076	0.936	
11/17/2014	15:36:00	14.129	4.123	1.126	0.125	0.913	
11/17/2014	15:37:00	14.122	4.125	1.109	0.122	1.002	
11/17/2014	15:38:00	14.117	4.125	1.105	0.119	1	
11/17/2014	15:39:00	14.115	4.119	1.117	0.122	0.999	
11/17/2014	15:40:00	14.115	4.121	1.097	0.121	0.994	
11/17/2014	15:41:00	14.112	4.124	1.086	0.114	1.008	
11/17/2014	15:42:00	14.114	4.123	1.085	0.119	0.991	
11/17/2014	15:43:00	14.112	4.124	1.094	0.114	0.991	
11/17/2014	15:44:00	16.501	2.526	1.065	0.101	1.011	
11/17/2014	15:45:00	15.24	3.766	1.02	0.051	0.34	
11/17/2014	15:46:00	14.112	4.13	1.167	0.112	1.054	
11/17/2014	15:47:00	14.114	4.135	1.166	0.109	1.058	
11/17/2014	15:48:00	14.117	4.135	1.179	0.118	1.058	
11/17/2014	15:49:00	14.122	4.128	1.163	0.109	1.056	
11/17/2014	15:50:00	14.127	4.127	1.149	0.112	1.044	
11/17/2014	15:51:00	14.126	4.135	1.153	0.108	1.045	
11/17/2014	15:52:00	14.135	4.132	1.151	0.108	1.032	
11/17/2014	15:53:00	14.144	4.127	1.154	0.106	1.027	
11/17/2014	15:54:00	13.059	4.448	1.138	0.09	1.033	
11/17/2014	15:55:00	10.132	5.106	0.372	-0.266	-0.01	
11/17/2014	15:56:00	10.123	5.105	-0.02	-0.308	-0.021	Sys O2/CO2
11/17/2014	15:57:00	2.111	0.854	1.108	-0.235	0.782	
11/17/2014	15:58:00	0.023	0.169	2.434	-0.065	2.475	Sys NOx
11/17/2014	15:59:00	17.601	0.16	2.57	-0.041	1.705	
11/17/2014	16:00:00	22.147	0.166	3.084	-0.021	0.083	Sys NO2
11/17/2014	16:01:00	20.157	1.419	3.131	-0.029	0.08	
11/17/2014	16:02:00	14.15	4.119	1.251	0.079	0.712	
11/17/2014	16:03:00	14.119	4.127	1.176	0.105	1.067	
11/17/2014	16:04:00	14.107	4.129	1.177	0.103	1.065	
11/17/2014	16:05:00	14.103	4.13	1.161	0.103	1.047	
11/17/2014	16:06:00	14.1	4.132	1.162	0.11	1.05	
11/17/2014	16:07:00	14.095	4.133	1.179	0.11	1.055	
11/17/2014	16:08:00	14.095	4.135	1.189	0.103	1.085	
11/17/2014	16:09:00	14.098	4.129	1.173	0.106	1.065	
11/17/2014	16:10:00	14.098	4.13	1.172	0.106	1.057	
11/17/2014	16:11:00	14.099	4.131	1.159	0.099	1.061	
11/17/2014	16:12:00	15.291	3.465	1.143	0.081	0.719	
11/17/2014	16:13:00	14.1	4.128	1.123	0.113	1.018	
11/17/2014	16:14:00	14.096	4.13	1.11	0.112	1.017	
11/17/2014	16:15:00	14.09	4.139	1.101	0.114	1.011	
11/17/2014	16:16:00	14.089	4.141	1.104	0.113	1.012	
11/17/2014	16:17:00	14.09	4.138	1.084	0.115	0.99	
11/17/2014	16:18:00	14.097	4.132	1.082	0.115	0.989	
11/17/2014	16:19:00	14.104	4.131	1.087	0.107	0.997	
11/17/2014	16:20:00	14.111	4.129	1.098	0.115	0.998	
11/17/2014	16:21:00	14.114	4.132	1.095	0.113	1.005	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	16:22:00	15.547	3.339	1.117	0.082	0.51	
11/17/2014	16:23:00	14.118	4.134	1.136	0.11	1.029	
11/17/2014	16:24:00	14.118	4.135	1.126	0.114	1.03	
11/17/2014	16:25:00	14.115	4.137	1.125	0.108	1.037	
11/17/2014	16:26:00	14.12	4.135	1.118	0.108	1.022	
11/17/2014	16:27:00	14.117	4.138	1.116	0.101	1.024	
11/17/2014	16:28:00	14.115	4.14	1.105	0.108	1.017	
11/17/2014	16:29:00	14.111	4.14	1.105	0.105	1.003	
11/17/2014	16:30:00	14.11	4.14	1.105	0.109	0.998	
11/17/2014	16:31:00	16.056	3.028	1.096	0.093	0.937	
11/17/2014	16:32:00	14.164	4.137	0.929	0.072	0.993	
11/17/2014	16:33:00	14.107	4.14	1.238	0.102	1.095	
11/17/2014	16:34:00	14.109	4.139	1.231	0.098	1.091	
11/17/2014	16:35:00	14.108	4.14	1.235	0.101	1.098	
11/17/2014	16:36:00	14.109	4.141	1.231	0.098	1.111	
11/17/2014	16:37:00	14.108	4.143	1.231	0.098	1.105	
11/17/2014	16:38:00	14.108	4.145	1.243	0.094	1.1	
11/17/2014	16:39:00	14.108	4.145	1.239	0.099	1.105	
11/17/2014	16:40:00	14.106	4.143	1.218	0.098	1.095	
11/17/2014	16:41:00	12.804	4.444	1.217	0.044	0.866	
11/17/2014	16:42:00	10.105	5.111	0.272	-0.293	0.122	
11/17/2014	16:43:00	10.093	5.112	-0.016	-0.311	-0.026	Sys O2/CO2
11/17/2014	16:44:00	2.414	1.012	0.765	-0.238	0.943	
11/17/2014	16:45:00	0.024	0.176	2.428	-0.065	2.451	Sys NOx
11/17/2014	16:46:00	11.359	0.17	2.545	-0.051	2.461	
11/17/2014	16:47:00	22.061	0.16	2.975	-0.017	0.1	Sys NO2
11/17/2014	16:48:00	12.743	4.603	3.195	-0.024	0.047	
11/17/2014	16:49:00	10.111	5.103	3.321	1.9	0.013	Direct NO2
11/17/2014	16:50:00	10.104	5.103	3.048	4.544	1.581	
11/17/2014	16:51:00	10.101	5.1	2.444	4.561	2.473	Sys CO;Direct Mid
11/17/2014	16:52:00	1.859	0.91	1.988	2.693	1.541	
11/17/2014	16:53:00	-0.003	0.131	0.336	0.139	-0.021	
11/17/2014	16:54:00	-0.019	0.13	-0.03	0.124	-0.034	Direct Zero
11/17/2014	16:55:00	10.464	3.398	0.175	0.125	0.407	
11/17/2014	16:56:00	13.792	4.254	1.448	0.127	1.317	
11/17/2014	16:57:00	13.8	4.26	1.452	0.123	1.303	
11/17/2014	16:58:00	13.802	4.263	1.454	0.126	1.305	
11/17/2014	16:59:00	13.808	4.265	1.446	0.126	1.296	
11/17/2014	17:00:00	13.809	4.271	1.428	0.116	1.284	
11/17/2014	17:01:00	13.811	4.268	1.42	0.117	1.276	
11/17/2014	17:02:00	13.812	4.269	1.417	0.115	1.266	
11/17/2014	17:03:00	13.815	4.262	1.424	0.11	1.285	
11/17/2014	17:04:00	13.817	4.261	1.422	0.116	1.28	
11/17/2014	17:05:00	13.819	4.268	1.415	0.116	1.272	
11/17/2014	17:06:00	16.072	2.712	1.382	0.1	1.263	
11/17/2014	17:07:00	16.572	3.015	0.471	0.035	0.402	
11/17/2014	17:08:00	16.103	2.953	1.287	0.093	1.217	
11/17/2014	17:09:00	13.898	4.259	1.336	0.077	0.943	
11/17/2014	17:10:00	15.32	3.419	1.352	0.088	1.256	
11/17/2014	17:11:00	13.832	4.257	1.301	0.097	1.185	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	17:12:00	13.821	4.265	1.335	0.114	1.196	
11/17/2014	17:13:00	13.815	4.269	1.314	0.118	1.193	
11/17/2014	17:14:00	13.815	4.267	1.311	0.117	1.195	
11/17/2014	17:15:00	13.815	4.263	1.313	0.111	1.204	
11/17/2014	17:16:00	13.815	4.261	1.306	0.117	1.2	
11/17/2014	17:17:00	13.818	4.258	1.3	0.121	1.184	
11/17/2014	17:18:00	13.816	4.264	1.319	0.116	1.189	
11/17/2014	17:19:00	16.301	2.696	1.327	0.102	1.125	
11/17/2014	17:20:00	14.171	4.245	1.068	0.071	1.105	
11/17/2014	17:21:00	13.832	4.265	1.316	0.12	1.185	
11/17/2014	17:22:00	13.83	4.26	1.299	0.117	1.177	
11/17/2014	17:23:00	13.83	4.257	1.288	0.123	1.171	
11/17/2014	17:24:00	13.832	4.252	1.281	0.115	1.164	
11/17/2014	17:25:00	13.832	4.251	1.264	0.118	1.147	
11/17/2014	17:26:00	13.831	4.251	1.25	0.115	1.156	
11/17/2014	17:27:00	13.827	4.245	1.258	0.117	1.138	
11/17/2014	17:28:00	13.825	4.259	1.259	0.115	1.166	
11/17/2014	17:29:00	15.62	3.23	1.262	0.101	1.074	
11/17/2014	17:30:00	13.858	4.255	1.049	0.079	1.094	
11/17/2014	17:31:00	13.826	4.259	1.32	0.116	1.173	
11/17/2014	17:32:00	13.827	4.255	1.324	0.11	1.175	
11/17/2014	17:33:00	13.83	4.252	1.32	0.108	1.175	
11/17/2014	17:34:00	13.831	4.25	1.345	0.106	1.176	
11/17/2014	17:35:00	13.834	4.253	1.31	0.104	1.168	
11/17/2014	17:36:00	13.837	4.255	1.314	0.103	1.17	
11/17/2014	17:37:00	13.838	4.251	1.313	0.104	1.177	
11/17/2014	17:38:00	13.84	4.255	1.313	0.099	1.175	
11/17/2014	17:39:00	11.058	4.79	1.214	0.05	0.795	
11/17/2014	17:40:00	10.051	5.111	-0.007	-0.32	-0.021	Sys O2/CO2
11/17/2014	17:41:00	2.356	0.973	0.88	-0.248	0.781	
11/17/2014	17:42:00	0.017	0.171	2.416	-0.076	2.459	Sys NOx
11/17/2014	17:43:00	-0.003	0.167	2.43	1.536	1.661	
11/17/2014	17:44:00	-0.017	0.162	0.005	4.54	-0.018	Sys CO
11/17/2014	17:45:00	16.896	0.158	1.009	2.55	0.007	
11/17/2014	17:46:00	21.972	0.163	3.049	-0.021	0.05	Sys NO2
11/17/2014	17:47:00	15.109	3.896	2.126	0.022	0.427	
11/17/2014	17:48:00	13.821	4.243	1.337	0.104	1.174	
11/17/2014	17:49:00	13.82	4.255	1.33	0.105	1.186	
11/17/2014	17:50:00	13.824	4.254	1.329	0.107	1.181	
11/17/2014	17:51:00	13.83	4.247	1.312	0.103	1.174	
11/17/2014	17:52:00	13.832	4.242	1.336	0.105	1.188	
11/17/2014	17:53:00	13.835	4.245	1.331	0.102	1.176	
11/17/2014	17:54:00	13.838	4.246	1.324	0.104	1.184	
11/17/2014	17:55:00	13.842	4.251	1.328	0.108	1.181	
11/17/2014	17:56:00	13.844	4.248	1.327	0.106	1.176	
11/17/2014	17:57:00	15.002	3.597	1.334	0.096	1.112	
11/17/2014	17:58:00	13.852	4.241	1.172	0.093	1.087	
11/17/2014	17:59:00	13.842	4.234	1.279	0.114	1.161	
11/17/2014	18:00:00	13.84	4.233	1.259	0.115	1.139	
11/17/2014	18:01:00	13.84	4.233	1.266	0.112	1.138	

2014 PGE Colusa Unit 1 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/17/2014	18:02:00	13.839	4.233	1.261	0.11	1.137	
11/17/2014	18:03:00	13.837	4.234	1.252	0.109	1.123	
11/17/2014	18:04:00	13.836	4.239	1.245	0.109	1.125	
11/17/2014	18:05:00	13.834	4.23	1.249	0.118	1.138	
11/17/2014	18:06:00	13.831	4.233	1.255	0.107	1.145	
11/17/2014	18:07:00	13.846	4.129	1.249	0.104	1.132	
11/17/2014	18:08:00	15.363	3.461	1.25	0.063	0.701	
11/17/2014	18:09:00	13.817	4.239	1.313	0.1	1.168	
11/17/2014	18:10:00	13.813	4.233	1.294	0.1	1.161	
11/17/2014	18:11:00	13.81	4.232	1.278	0.1	1.152	
11/17/2014	18:12:00	13.808	4.24	1.313	0.099	1.169	
11/17/2014	18:13:00	13.807	4.235	1.306	0.095	1.169	
11/17/2014	18:14:00	13.806	4.231	1.302	0.099	1.169	
11/17/2014	18:15:00	13.806	4.238	1.296	0.099	1.165	
11/17/2014	18:16:00	13.805	4.242	1.3	0.099	1.16	
11/17/2014	18:17:00	14.444	3.608	1.293	0.097	1.166	
11/17/2014	18:18:00	17.168	2.619	1.182	0.025	0.386	
11/17/2014	18:19:00	13.816	4.232	1.36	0.091	1.219	
11/17/2014	18:20:00	13.807	4.236	1.401	0.095	1.235	
11/17/2014	18:21:00	13.799	4.233	1.403	0.09	1.226	
11/17/2014	18:22:00	13.794	4.233	1.415	0.09	1.236	
11/17/2014	18:23:00	13.789	4.236	1.406	0.088	1.242	
11/17/2014	18:24:00	13.789	4.243	1.393	0.087	1.233	
11/17/2014	18:25:00	13.789	4.242	1.389	0.086	1.228	
11/17/2014	18:26:00	13.793	4.245	1.382	0.085	1.219	
11/17/2014	18:27:00	11.457	4.727	1.33	-0.077	0.819	

2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	7:34:00	-0.056	-0.001	0.015	-0.004	0.012	
11/18/2014	7:35:00	-0.064	-0.007	0.012	-0.009	0.02	Direct Zero
11/18/2014	7:36:00	14.807	7.87	0.746	3.382	1.591	
11/18/2014	7:37:00	19.224	9.487	5.067	9.506	4.546	
11/18/2014	7:38:00	19.226	9.494	1.834	9.528	2.089	
11/18/2014	7:39:00	19.047	9.44	3.482	9.532	4.803	
11/18/2014	7:40:00	18.966	9.36	4.796	9.528	4.8	Direct High
11/18/2014	7:41:00	3.892	1.352	4.491	6.064	2.93	
11/18/2014	7:42:00	-0.027	0	0.014	0.011	0.023	
11/18/2014	7:43:00	-0.049	0	0.013	-0.005	0.017	Direct Zero
11/18/2014	7:44:00	7.707	4.228	0.949	1.644	0.385	
11/18/2014	7:45:00	9.864	5.007	2.415	4.622	2.454	
11/18/2014	7:46:00	9.86	5.002	2.427	4.629	2.452	Direct Mid
11/18/2014	7:47:00	10.904	5.141	2.485	3.426	1.518	
11/18/2014	7:48:00	11.651	5.239	3.2	0.479	0.052	
11/18/2014	7:49:00	11.646	5.25	3.321	-0.009	0.044	Direct NO2;Direct CO Z
11/18/2014	7:50:00	11.634	5.252	2.796	3.804	0.761	
11/18/2014	7:51:00	11.66	5.231	2.973	9.537	0.501	Direct CO High
11/18/2014	7:52:00	11.667	5.23	3.35	6.913	0.046	
11/18/2014	7:53:00	11.667	5.23	3.35	4.665	0.052	
11/18/2014	7:54:00	11.672	5.23	2.074	4.68	0.032	Direct CO Mid
11/18/2014	7:55:00	11.666	5.229	-0.009	2.844	0.002	
11/18/2014	7:56:00	11.663	5.23	0.016	0.78	0.018	
11/18/2014	7:57:00	11.666	5.222	3.35	0.767	0.051	
11/18/2014	7:58:00	11.664	5.223	3.356	0.777	0.05	
11/18/2014	7:59:00	11.666	5.228	2.761	0.796	0.04	
11/18/2014	8:00:00	11.667	5.229	0.922	0.807	0.031	
11/18/2014	8:01:00	11.665	5.229	3.379	0.809	0.06	
11/18/2014	8:02:00	11.669	5.228	3.395	0.8	0.054	Direct NO2
11/18/2014	8:03:00	11.663	5.235	3.015	0.811	0.492	
11/18/2014	8:04:00	11.666	5.233	2.097	0.813	1.655	
11/18/2014	8:05:00	11.99	4.877	1.956	0.778	1.574	
11/18/2014	8:06:00	9.837	5.05	1.14	-0.039	0.602	
11/18/2014	8:07:00	9.802	5.054	0.13	-0.23	0.024	Sys O2/CO2
11/18/2014	8:08:00	2.206	0.78	0.787	-0.154	1.342	
11/18/2014	8:09:00	-0.035	0.06	2.534	0.023	2.435	Sys NOx
11/18/2014	8:10:00	-0.053	0.057	1.854	2.618	0.98	
11/18/2014	8:11:00	-0.062	0.063	0.113	4.686	0.014	Sys CO
11/18/2014	8:12:00	17.675	0.23	0.925	2.256	0.079	
11/18/2014	8:13:00	21.029	0.404	3.113	0.061	0.156	Sys NO2
11/18/2014	8:14:00	12.433	5.157	2.735	0.479	1.059	
11/18/2014	8:15:00	11.653	5.248	1.937	0.78	1.646	
11/18/2014	8:16:00	11.646	5.247	1.901	0.792	1.618	
11/18/2014	8:17:00	11.648	5.248	1.811	0.8	1.52	
11/18/2014	8:18:00	11.648	5.248	1.699	0.802	1.443	
11/18/2014	8:19:00	11.649	5.26	1.597	0.787	1.357	
11/18/2014	8:20:00	11.65	5.264	1.524	0.775	1.295	
11/18/2014	8:21:00	11.649	5.266	1.525	0.776	1.309	
11/18/2014	8:22:00	11.651	5.269	1.66	0.766	1.403	
11/18/2014	8:23:00	11.653	5.265	1.778	0.764	1.54	

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2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	8:24:00	13.422	4.237	1.774	0.71	1.605	
11/18/2014	8:25:00	11.631	5.297	1.77	0.675	1.596	
11/18/2014	8:26:00	11.597	5.305	1.926	0.772	1.693	
11/18/2014	8:27:00	11.594	5.305	1.958	0.765	1.711	
11/18/2014	8:28:00	11.591	5.308	1.895	0.77	1.664	
11/18/2014	8:29:00	11.588	5.315	1.798	0.768	1.578	
11/18/2014	8:30:00	11.586	5.32	1.652	0.766	1.46	
11/18/2014	8:31:00	11.582	5.323	1.543	0.754	1.343	
11/18/2014	8:32:00	11.576	5.328	1.484	0.755	1.271	
11/18/2014	8:33:00	11.574	5.331	1.436	0.756	1.271	
11/18/2014	8:34:00	13.448	4.259	1.419	0.658	1.307	
11/18/2014	8:35:00	11.58	5.341	1.557	0.637	1.487	
11/18/2014	8:36:00	11.575	5.337	1.792	0.708	1.574	
11/18/2014	8:37:00	11.571	5.347	1.837	0.707	1.635	
11/18/2014	8:38:00	11.578	5.341	1.941	0.708	1.66	
11/18/2014	8:39:00	11.58	5.344	1.894	0.703	1.688	
11/18/2014	8:40:00	11.582	5.34	1.911	0.707	1.668	
11/18/2014	8:41:00	11.576	5.351	1.889	0.707	1.665	
11/18/2014	8:42:00	11.584	5.356	1.824	0.703	1.605	
11/18/2014	8:43:00	11.579	5.354	1.722	0.711	1.519	
11/18/2014	8:44:00	14.175	3.858	1.572	0.598	1.439	
11/18/2014	8:45:00	11.653	5.318	1.53	0.617	1.406	
11/18/2014	8:46:00	11.639	5.324	1.606	0.704	1.386	
11/18/2014	8:47:00	11.637	5.325	1.633	0.712	1.416	
11/18/2014	8:48:00	11.639	5.329	1.783	0.702	1.551	
11/18/2014	8:49:00	11.639	5.326	1.897	0.713	1.645	
11/18/2014	8:50:00	11.637	5.326	1.957	0.719	1.683	
11/18/2014	8:51:00	11.635	5.33	1.978	0.715	1.711	
11/18/2014	8:52:00	11.641	5.328	2.013	0.715	1.734	
11/18/2014	8:53:00	11.64	5.329	2.037	0.708	1.763	
11/18/2014	8:54:00	11.791	5.038	1.998	0.724	1.756	
11/18/2014	8:55:00	10.443	5.09	1.506	0.094	0.921	
11/18/2014	8:56:00	9.807	5.136	0.102	-0.241	0.011	Sys O2/CO2
11/18/2014	8:57:00	1.653	0.622	1.448	-0.152	0.68	
11/18/2014	8:58:00	-0.032	0.155	2.426	0.006	2.447	Sys NOx
11/18/2014	8:59:00	-0.05	0.152	2.42	2.603	1.775	
11/18/2014	9:00:00	-0.06	0.151	0.173	4.676	0.007	Sys CO
11/18/2014	9:01:00	17.486	0.491	1.695	2.261	0.067	
11/18/2014	9:02:00	20.767	0.543	3.006	0.056	0.226	Sys NO2
11/18/2014	9:03:00	16.28	3.261	3.045	0.173	0.601	
11/18/2014	9:04:00	11.659	5.313	2.028	0.706	1.659	
11/18/2014	9:05:00	11.65	5.316	1.964	0.725	1.714	
11/18/2014	9:06:00	11.655	5.317	1.935	0.715	1.68	
11/18/2014	9:07:00	11.662	5.316	1.913	0.724	1.651	
11/18/2014	9:08:00	11.67	5.311	1.873	0.73	1.616	
11/18/2014	9:09:00	11.67	5.315	1.8	0.741	1.559	
11/18/2014	9:10:00	11.673	5.316	1.755	0.731	1.524	
11/18/2014	9:11:00	11.686	5.314	1.738	0.72	1.506	
11/18/2014	9:12:00	11.675	5.318	1.758	0.713	1.516	
11/18/2014	9:13:00	11.676	5.32	1.807	0.71	1.567	

2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	9:14:00	13.858	4.073	1.827	0.608	1.653	
11/18/2014	9:15:00	11.629	5.36	1.788	0.644	1.644	
11/18/2014	9:16:00	11.622	5.358	1.906	0.713	1.687	
11/18/2014	9:17:00	11.618	5.372	1.935	0.715	1.711	
11/18/2014	9:18:00	11.623	5.372	1.937	0.707	1.712	
11/18/2014	9:19:00	11.611	5.375	1.869	0.702	1.639	
11/18/2014	9:20:00	11.602	5.383	1.732	0.705	1.542	
11/18/2014	9:21:00	11.599	5.388	1.626	0.689	1.412	
11/18/2014	9:22:00	11.586	5.393	1.503	0.693	1.331	
11/18/2014	9:23:00	11.586	5.392	1.44	0.687	1.254	
11/18/2014	9:24:00	15.225	2.938	1.375	0.591	1.263	
11/18/2014	9:25:00	12.63	5.189	1.394	0.45	0.49	
11/18/2014	9:26:00	11.593	5.403	1.642	0.729	1.448	
11/18/2014	9:27:00	11.594	5.394	1.715	0.73	1.554	
11/18/2014	9:28:00	11.597	5.392	1.808	0.728	1.588	
11/18/2014	9:29:00	11.591	5.402	1.86	0.732	1.655	
11/18/2014	9:30:00	11.593	5.405	1.901	0.734	1.695	
11/18/2014	9:31:00	11.586	5.407	1.865	0.741	1.656	
11/18/2014	9:32:00	11.584	5.404	1.825	0.741	1.618	
11/18/2014	9:33:00	11.577	5.41	1.741	0.734	1.533	
11/18/2014	9:34:00	12.924	4.634	1.588	0.689	1.454	
11/18/2014	9:35:00	11.66	5.373	1.493	0.639	1.306	
11/18/2014	9:36:00	11.639	5.373	1.481	0.713	1.289	
11/18/2014	9:37:00	11.636	5.377	1.497	0.728	1.303	
11/18/2014	9:38:00	11.638	5.381	1.602	0.715	1.387	
11/18/2014	9:39:00	11.635	5.388	1.729	0.719	1.509	
11/18/2014	9:40:00	11.629	5.393	1.799	0.73	1.586	
11/18/2014	9:41:00	11.629	5.396	1.856	0.721	1.627	
11/18/2014	9:42:00	11.632	5.397	1.906	0.718	1.667	
11/18/2014	9:43:00	11.633	5.395	1.901	0.714	1.666	
11/18/2014	9:44:00	11.635	4.998	1.797	0.604	1.616	
11/18/2014	9:45:00	9.796	5.208	0.673	-0.209	0.094	
11/18/2014	9:46:00	9.788	5.2	0.003	-0.258	-0.003	Sys O2/CO2
11/18/2014	9:47:00	1.238	0.527	1.456	-0.164	0.685	
11/18/2014	9:48:00	-0.032	0.23	2.436	-0.01	2.48	Sys NOx
11/18/2014	9:49:00	-0.041	0.233	2.43	2.492	1.781	
11/18/2014	9:50:00	0.207	0.351	0.186	4.525	0.038	Sys CO
11/18/2014	9:51:00	16.652	0.289	1.456	2.483	0.058	
11/18/2014	9:52:00	21.448	0.227	3.053	0.037	0.135	Sys NO2
11/18/2014	9:53:00	12.714	5.173	2.381	0.38	0.573	
11/18/2014	9:54:00	11.588	5.398	1.922	0.686	1.65	
11/18/2014	9:55:00	11.584	5.403	1.924	0.698	1.68	
11/18/2014	9:56:00	11.578	5.412	1.901	0.688	1.647	
11/18/2014	9:57:00	11.573	5.409	1.813	0.678	1.572	
11/18/2014	9:58:00	11.57	5.421	1.723	0.675	1.5	
11/18/2014	9:59:00	11.574	5.421	1.613	0.673	1.401	
11/18/2014	10:00:00	11.574	5.416	1.514	0.669	1.326	
11/18/2014	10:01:00	11.576	5.417	1.478	0.678	1.287	
11/18/2014	10:02:00	11.575	5.422	1.519	0.67	1.314	
11/18/2014	10:03:00	11.576	5.418	1.648	0.689	1.453	

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	10:04:00	13.008	4.608	1.702	0.617	1.547	
11/18/2014	10:05:00	11.526	5.458	1.715	0.642	1.63	
11/18/2014	10:06:00	11.52	5.459	1.864	0.701	1.667	
11/18/2014	10:07:00	11.521	5.463	1.899	0.693	1.705	
11/18/2014	10:08:00	11.526	5.465	1.878	0.698	1.649	
11/18/2014	10:09:00	11.528	5.464	1.852	0.69	1.638	
11/18/2014	10:10:00	11.529	5.455	1.716	0.692	1.525	
11/18/2014	10:11:00	11.532	5.451	1.615	0.698	1.421	
11/18/2014	10:12:00	11.531	5.458	1.52	0.695	1.35	
11/18/2014	10:13:00	11.523	5.468	1.478	0.685	1.318	
11/18/2014	10:14:00	13.057	4.581	1.453	0.659	1.341	
11/18/2014	10:15:00	11.542	5.465	1.563	0.547	1.41	
11/18/2014	10:16:00	11.521	5.47	1.832	0.627	1.584	
11/18/2014	10:17:00	11.519	5.478	1.882	0.624	1.667	
11/18/2014	10:18:00	11.515	5.476	1.925	0.633	1.713	
11/18/2014	10:19:00	11.516	5.468	1.956	0.625	1.729	
11/18/2014	10:20:00	11.516	5.468	1.927	0.622	1.69	
11/18/2014	10:21:00	11.517	5.474	1.869	0.625	1.616	
11/18/2014	10:22:00	11.51	5.484	1.749	0.617	1.55	
11/18/2014	10:23:00	11.51	5.486	1.628	0.613	1.426	
11/18/2014	10:24:00	12.385	4.662	1.524	0.607	1.35	
11/18/2014	10:25:00	13.541	4.646	1.381	0.414	0.624	
11/18/2014	10:26:00	11.607	5.43	1.583	0.631	1.377	
11/18/2014	10:27:00	11.581	5.444	1.749	0.619	1.513	
11/18/2014	10:28:00	11.565	5.458	1.878	0.618	1.625	
11/18/2014	10:29:00	11.591	5.438	1.944	0.625	1.695	
11/18/2014	10:30:00	11.59	5.436	1.992	0.631	1.717	
11/18/2014	10:31:00	11.587	5.438	2.029	0.623	1.753	
11/18/2014	10:32:00	11.581	5.444	1.998	0.624	1.737	
11/18/2014	10:33:00	11.584	5.45	1.958	0.62	1.697	
11/18/2014	10:34:00	11.583	5.455	1.831	0.617	1.606	
11/18/2014	10:35:00	12.025	5.124	1.751	0.607	1.524	
11/18/2014	10:36:00	9.945	5.233	1.109	-0.035	0.563	
11/18/2014	10:37:00	9.79	5.237	0	-0.285	0.002	Sys O2/CO2
11/18/2014	10:38:00	1.2	0.573	0.676	-0.19	1.482	
11/18/2014	10:39:00	-0.03	0.28	2.425	-0.042	2.45	Sys NOx
11/18/2014	10:40:00	-0.047	0.281	2.426	0.306	2.458	
11/18/2014	10:41:00	-0.058	0.28	0.965	4.244	0.158	
11/18/2014	10:42:00	0.067	0.334	0.027	4.568	0.026	Sys CO
11/18/2014	10:43:00	18.733	0.353	1.778	2	0.087	
11/18/2014	10:44:00	21.373	0.313	3.078	-0.002	0.128	Sys NO2
11/18/2014	10:45:00	7.243	0.265	3.247	-0.027	0.3	
11/18/2014	10:46:00	-0.029	0.25	3.318	-0.059	0.028	Direct NO2
11/18/2014	10:47:00	-0.055	0.243	1.326	-0.068	0.035	
11/18/2014	10:48:00	-0.068	0.248	-0.004	-0.068	-0.004	Direct Zero
11/18/2014	10:49:00	8.145	4.627	1.132	1.69	0.676	
11/18/2014	10:50:00	9.751	5.233	2.405	4.588	2.457	Direct Mid
11/18/2014	10:52:00	11.497	5.479	1.072	0.626		
11/18/2014	10:53:00	11.5	5.485	1.8	0.611		

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	10:54:00	11.502	5.481	1.893	0.614		
11/18/2014	10:55:00	11.504	5.485	1.959	0.609		
11/18/2014	10:56:00	11.506	5.487	1.994	0.606		
11/18/2014	10:57:00	11.507	5.487	1.998	0.61		
11/18/2014	10:58:00	11.508	5.491	1.92	0.603		
11/18/2014	10:59:00	11.511	5.494	1.786	0.611		
11/18/2014	11:00:00	11.51	5.497	1.648	0.6		
11/18/2014	11:01:00	11.493	5.511	1.532	0.602		
11/18/2014	11:02:00	11.486	5.515	1.443	0.582		
11/18/2014	11:03:00	11.488	5.518	1.447	0.587		
11/18/2014	11:04:00	11.489	5.519	1.555	0.591		
11/18/2014	11:05:00	11.485	5.523	1.719	0.58		
11/18/2014	11:06:00	11.487	5.524	1.826	0.58		
11/18/2014	11:07:00	13.839	4.178	1.398	0.501		
11/18/2014	11:08:00	11.438	5.563	1.973	0.464		
11/18/2014	11:09:00	11.416	5.574	1.988	0.547		
11/18/2014	11:10:00	11.419	5.575	1.926	0.548		
11/18/2014	11:11:00	11.412	5.576	1.817	0.547		
11/18/2014	11:12:00	11.411	5.588	1.672	0.539		
11/18/2014	11:13:00	11.408	5.585	1.512	0.545		
11/18/2014	11:14:00	11.413	5.586	1.452	0.538		
11/18/2014	11:15:00	11.401	5.598	1.444	0.536		
11/18/2014	11:16:00	10.853	4.982	0.493	0.147		
11/18/2014	11:17:00	9.79	5.281	0.004	-0.311	Sys NOx	
11/18/2014	11:18:00	3.076	1.578	1.626	-0.259		
11/18/2014	11:19:00	-0.025	0.342	2.435	-0.067	Sys NOx	
11/18/2014	11:20:00	-0.045	0.336	0.817	1.611		
11/18/2014	11:21:00	-0.057	0.338	0.002	4.584	Sys CO	
11/18/2014	11:22:00	5.593	3.267	0.923	3.843		
11/18/2014	11:23:00	11.383	5.553	1.869	0.668		
11/18/2014	11:24:00	11.396	5.566	1.701	0.542		
11/18/2014	11:25:00	11.404	5.572	1.549	0.545		
11/18/2014	11:26:00	11.415	5.568	1.442	0.551		
11/18/2014	11:27:00	11.416	5.571	1.4	0.55		
11/18/2014	11:28:00	11.384	5.595	1.474	0.541		
11/18/2014	11:29:00	11.42	5.576	1.662	0.54		
11/18/2014	11:30:00	11.424	5.573	1.827	0.542		
11/18/2014	11:31:00	11.38	5.602	1.907	0.534		
11/18/2014	11:32:00	11.355	5.616	1.932	0.524		
11/18/2014	11:33:00	11.369	5.61	1.953	0.521		
11/18/2014	11:34:00	11.378	5.605	1.934	0.52		
11/18/2014	11:35:00	11.383	5.604	1.872	0.529		
11/18/2014	11:36:00	11.388	5.601	1.748	0.52		
11/18/2014	11:37:00	11.394	5.603	1.626	0.522		
11/18/2014	11:38:00	13.585	4.354	1.167	0.434		
11/18/2014	11:39:00	11.481	5.559	1.473	0.509		
11/18/2014	11:40:00	11.476	5.56	1.503	0.573		
11/18/2014	11:41:00	11.478	5.56	1.641	0.58		
11/18/2014	11:42:00	11.483	5.555	1.797	0.575		
11/18/2014	11:43:00	11.479	5.559	1.873	0.56		

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	11:44:00	11.487	5.555	1.935	0.566		
11/18/2014	11:45:00	11.495	5.555	1.942	0.573		
11/18/2014	11:46:00	11.493	5.554	1.889	0.57		
11/18/2014	11:47:00	10.853	5.194	1.65	0.6		
11/18/2014	11:48:00	14.987	3.312	0.686	0.501		
11/18/2014	11:49:00	9.788	5.301	0.006	-0.217	Sys O2/CO2	
11/18/2014	11:50:00	1.817	0.991	1.932	-0.236		
11/18/2014	11:51:00	-0.027	0.37	2.429	-0.072	Sys NOIx	
11/18/2014	11:52:00	-0.044	0.366	0.481	2.22		
11/18/2014	11:53:00	-0.059	0.366	-0.004	4.587	Sys CO	
11/18/2014	11:54:00	9.635	5.115	1.512	2.515		
11/18/2014	11:55:00	11.39	5.574	1.915	0.551		
11/18/2014	11:56:00	11.369	5.598	1.976	0.535		
11/18/2014	11:57:00	11.36	5.606	1.973	0.508		
11/18/2014	11:58:00	11.37	5.604	1.903	0.509		
11/18/2014	11:59:00	11.38	5.604	1.793	0.511		
11/18/2014	12:00:00	11.379	5.605	1.623	0.505		
11/18/2014	12:01:00	11.384	5.604	1.48	0.505		
11/18/2014	12:02:00	11.398	5.6	1.412	0.506		
11/18/2014	12:03:00	11.401	5.596	1.41	0.506		
11/18/2014	12:04:00	11.398	5.603	1.519	0.51		
11/18/2014	12:05:00	11.403	5.595	1.71	0.508		
11/18/2014	12:06:00	11.406	5.596	1.824	0.511		
11/18/2014	12:07:00	11.403	5.603	1.901	0.508		
11/18/2014	12:08:00	11.404	5.608	1.946	0.503		
11/18/2014	12:09:00	15.31	3.066	1.169	0.419		
11/18/2014	12:10:00	12.776	5.148	1.607	0.282		
11/18/2014	12:11:00	11.498	5.558	1.838	0.55		
11/18/2014	12:12:00	11.491	5.559	1.72	0.556		
11/18/2014	12:13:00	11.489	5.568	1.588	0.557		
11/18/2014	12:14:00	11.491	5.578	1.479	0.557		
11/18/2014	12:15:00	11.502	5.575	1.43	0.549		
11/18/2014	12:16:00	11.507	5.573	1.452	0.562		
11/18/2014	12:17:00	11.515	5.571	1.571	0.559		
11/18/2014	12:18:00	9.799	5.146	0.433	0.366		
11/18/2014	12:19:00	9.813	5.314	-0.008	-0.32	Sys O2/CO2	
11/18/2014	12:20:00	1.785	0.998	1.922	-0.243		
11/18/2014	12:21:00	-0.029	0.399	2.422	-0.077	Sys NOx	
11/18/2014	12:22:00	-0.048	0.391	0.493	2.207		
11/18/2014	12:23:00	-0.06	0.38	-0.002	4.574	Sys CO	
11/18/2014	12:24:00	8.899	4.734	1.311	2.802		
11/18/2014	12:25:00	11.518	5.583	1.624	0.54		
11/18/2014	12:26:00	11.536	5.587	1.481	0.536		
11/18/2014	12:27:00	11.55	5.578	1.405	0.541		
11/18/2014	12:28:00	11.557	5.575	1.392	0.539		
11/18/2014	12:29:00	11.565	5.58	1.483	0.529		
11/18/2014	12:30:00	11.574	5.573	1.686	0.528		
11/18/2014	12:31:00	11.582	5.571	1.813	0.538		
11/18/2014	12:32:00	11.559	5.6	1.9	0.518		
11/18/2014	12:33:00	11.542	5.606	1.941	0.503		

2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	12:34:00	11.552	5.599	1.965	0.509		
11/18/2014	12:35:00	11.548	5.603	1.942	0.499		
11/18/2014	12:36:00	11.551	5.604	1.871	0.499		
11/18/2014	12:37:00	11.552	5.605	1.74	0.498		
11/18/2014	12:38:00	11.553	5.599	1.604	0.489		
11/18/2014	12:39:00	14.047	4.197	1.093	0.391		
11/18/2014	12:40:00	11.632	5.559	1.434	0.492		
11/18/2014	12:41:00	11.63	5.558	1.452	0.553		
11/18/2014	12:42:00	11.629	5.559	1.584	0.542		
11/18/2014	12:43:00	11.629	5.554	1.759	0.537		
11/18/2014	12:44:00	11.628	5.557	1.861	0.545		
11/18/2014	12:45:00	11.625	5.555	1.925	0.541		
11/18/2014	12:46:00	11.63	5.554	1.97	0.539		
11/18/2014	12:47:00	11.624	5.563	1.968	0.549		
11/18/2014	12:48:00	10.814	5.316	1.363	0.56		
11/18/2014	12:49:00	9.889	5.297	-0.003	-0.164	Sys O2/CO2	
11/18/2014	12:50:00	1.918	1.019	1.901	-0.245		
11/18/2014	12:51:00	-0.033	0.37	2.429	-0.084	Sys NOx	
11/18/2014	12:52:00	-0.052	0.373	0.496	2.181		
11/18/2014	12:53:00	-0.063	0.37	-0.011	4.571	sys co	
11/18/2014	12:54:00	5.009	3.001	0.652	3.968		
11/18/2014	12:55:00	11.53	5.555	1.681	0.695		
11/18/2014	12:56:00	11.556	5.556	1.793	0.522		
11/18/2014	12:57:00	11.555	5.569	1.928	0.518		
11/18/2014	12:58:00	11.567	5.561	1.923	0.514		
11/18/2014	12:59:00	11.571	5.564	1.964	0.519		
11/18/2014	13:00:00	11.576	5.554	1.922	0.522		
11/18/2014	13:01:00	11.57	5.562	1.82	0.512		
11/18/2014	13:02:00	11.569	5.562	1.69	0.52		
11/18/2014	13:03:00	11.546	5.583	1.559	0.511		
11/18/2014	13:04:00	11.51	5.596	1.473	0.491		
11/18/2014	13:05:00	11.51	5.594	1.441	0.494		
11/18/2014	13:06:00	11.513	5.591	1.497	0.488		
11/18/2014	13:07:00	11.519	5.587	1.665	0.5		
11/18/2014	13:08:00	11.519	5.587	1.805	0.497		
11/18/2014	13:09:00	11.519	5.59	1.908	0.491		
11/18/2014	13:10:00	13.164	4.316	1.647	0.475		
11/18/2014	13:11:00	14.955	4	1.231	0.217		
11/18/2014	13:12:00	11.628	5.529	1.966	0.525		
11/18/2014	13:13:00	11.621	5.539	1.842	0.522		
11/18/2014	13:14:00	11.62	5.544	1.688	0.52		
11/18/2014	13:15:00	11.622	5.543	1.522	0.52		
11/18/2014	13:16:00	11.619	5.538	1.411	0.53		
11/18/2014	13:17:00	11.616	5.539	1.386	0.518		
11/18/2014	13:18:00	11.613	5.541	1.423	0.511		
11/18/2014	13:19:00	13.165	4.326	1.321	0.514		
11/18/2014	13:20:00	12.425	3.921	0.053	0.257		
11/18/2014	13:21:00	9.877	5.283	-0.01	-0.316	Sys O2/CO2	
11/18/2014	13:22:00	1.923	1.006	1.903	-0.258		
11/18/2014	13:23:00	-0.034	0.373	2.425	-0.086	Sys NOx	

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2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	13:24:00	-0.054	0.364	0.496	2.17		
11/18/2014	13:25:00	-0.065	0.369	-0.017	4.572	Sys co	
11/18/2014	13:26:00	5.403	3.19	0.761	3.861		
11/18/2014	13:27:00	11.486	5.561	1.568	0.649		
11/18/2014	13:28:00	11.498	5.571	1.457	0.518		
11/18/2014	13:29:00	11.516	5.57	1.41	0.521		
11/18/2014	13:30:00	11.512	5.573	1.434	0.518		
11/18/2014	13:31:00	11.517	5.583	1.572	0.517		
11/18/2014	13:32:00	11.51	5.586	1.763	0.515		
11/18/2014	13:33:00	11.512	5.581	1.86	0.504		
11/18/2014	13:34:00	11.503	5.59	1.966	0.5		
11/18/2014	13:35:00	11.489	5.6	2.011	0.484		
11/18/2014	13:36:00	11.496	5.611	1.992	0.479		
11/18/2014	13:37:00	11.491	5.617	1.896	0.474		
11/18/2014	13:38:00	11.494	5.615	1.715	0.477		
11/18/2014	13:39:00	11.499	5.61	1.549	0.476		
11/18/2014	13:40:00	11.506	5.612	1.427	0.48		
11/18/2014	13:41:00	11.504	5.61	1.373	0.479		
11/18/2014	13:42:00	13.083	4.504	1.168	0.461		
11/18/2014	13:43:00	12.003	5.558	1.436	0.389		
11/18/2014	13:44:00	11.587	5.571	1.686	0.527		
11/18/2014	13:45:00	11.587	5.575	1.793	0.524		
11/18/2014	13:46:00	11.594	5.572	1.866	0.535		
11/18/2014	13:47:00	11.592	5.573	1.905	0.532		
11/18/2014	13:48:00	11.593	5.573	1.931	0.542		
11/18/2014	13:49:00	11.584	5.58	1.909	0.529		
11/18/2014	13:50:00	11.583	5.579	1.805	0.533		
11/18/2014	13:51:00	11.1	5.38	1.539	0.53		
11/18/2014	13:52:00	9.862	5.313	-0.01	-0.001	Sys O2/CO2	
11/18/2014	13:53:00	1.912	1.028	1.908	-0.259		
11/18/2014	13:54:00	-0.041	0.393	2.42	-0.089		
11/18/2014	13:55:00	-0.06	0.384	2.418	-0.088		
11/18/2014	13:56:00	-0.071	0.388	2.425	-0.086		
11/18/2014	13:57:00	-0.079	0.381	2.421	-0.088		
11/18/2014	13:58:00	-0.085	0.387	2.425	-0.085		
11/18/2014	13:59:00	-0.09	0.383	2.457	-0.087		
11/18/2014	14:00:00	-0.093	0.383	2.43	-0.091		
11/18/2014	14:01:00	-0.095	0.381	2.418	-0.083		
11/18/2014	14:02:00	-0.097	0.383	2.435	-0.081		
11/18/2014	14:03:00	-0.1	0.382	2.433	-0.089	Sys NOx	
11/18/2014	14:04:00	-0.102	0.383	0.548	2.079		
11/18/2014	14:05:00	-0.105	0.383	-0.001	4.56		
11/18/2014	14:06:00	-0.107	0.385	-0.011	4.566		
11/18/2014	14:07:00	-0.11	0.389	-0.005	4.571		
11/18/2014	14:08:00	-0.112	0.387	-0.006	4.568	Sys CO	
11/18/2014	14:09:00	9.015	4.854	1.294	2.696		
11/18/2014	14:10:00	11.453	5.567	1.765	0.537		
11/18/2014	14:11:00	11.483	5.566	1.843	0.523		
11/18/2014	14:12:00	11.49	5.571	1.9	0.525		
11/18/2014	14:13:00	11.501	5.573	1.921	0.519		

2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	14:14:00	11.512	5.573	1.88	0.527		
11/18/2014	14:15:00	11.513	5.576	1.785	0.53		
11/18/2014	14:16:00	11.517	5.577	1.643	0.527		
11/18/2014	14:17:00	11.524	5.572	1.509	0.526		
11/18/2014	14:18:00	11.526	5.571	1.424	0.523		
11/18/2014	14:19:00	11.532	5.574	1.403	0.52		
11/18/2014	14:20:00	11.538	5.571	1.469	0.522		
11/18/2014	14:21:00	11.535	5.578	1.653	0.521		
11/18/2014	14:22:00	11.534	5.583	1.784	0.53		
11/18/2014	14:23:00	11.536	5.587	1.852	0.52		
11/18/2014	14:24:00	11.548	5.582	1.894	0.535		
11/18/2014	14:25:00	11.552	5.579	1.922	0.528		
11/18/2014	14:26:00	11.553	5.579	1.895	0.532		
11/18/2014	14:27:00	11.567	5.576	1.783	0.526		
11/18/2014	14:28:00	11.575	5.574	1.634	0.529		
11/18/2014	14:29:00	11.579	5.575	1.473	0.522		
11/18/2014	14:30:00	11.588	5.572	1.361	0.517		
11/18/2014	14:31:00	11.589	5.571	1.323	0.511		
11/18/2014	14:32:00	10.187	5.348	2.109	1.841		
11/18/2014	14:33:00	9.9	5.291	2.43	4.516		
11/18/2014	14:34:00	9.898	5.294	2.421	4.552	Direct Mid	
11/18/2014	14:35:00	2.7	1.616	0.86	3.114		
11/18/2014	14:36:00	-0.06	0.349	-0.014	-0.096	Direct Zero	
11/18/2014	14:37:00	2.556	1.809	0.276	-0.115		
11/18/2014	14:38:00	11.524	5.552	1.873	0.25		
11/18/2014	14:39:00	11.551	5.556	1.851	0.482		
11/18/2014	14:40:00	11.547	5.562	1.781	0.514		
11/18/2014	14:41:00	11.546	5.564	1.656	0.514		
11/18/2014	14:42:00	11.55	5.565	1.525	0.522		
11/18/2014	14:43:00	11.551	5.562	1.467	0.519		
11/18/2014	14:44:00	11.544	5.563	1.456	0.523		
11/18/2014	14:45:00	11.543	5.563	1.54	0.514		
11/18/2014	14:46:00	11.542	5.559	1.717	0.518		
11/18/2014	14:47:00	11.544	5.557	1.829	0.515		
11/18/2014	14:48:00	11.539	5.563	1.9	0.513		
11/18/2014	14:49:00	11.54	5.559	1.952	0.515		
11/18/2014	14:50:00	11.543	5.555	1.955	0.52		
11/18/2014	14:51:00	11.547	5.552	1.834	0.514		
11/18/2014	14:52:00	11.554	5.546	1.656	0.527		
11/18/2014	14:53:00	11.554	5.554	1.47	0.527		
11/18/2014	14:54:00	11.555	5.547	1.339	0.523		
11/18/2014	14:55:00	11.553	5.549	1.29	0.515		
11/18/2014	14:56:00	11.557	5.549	1.324	0.521		
11/18/2014	14:57:00	12.961	4.336	1.216	0.516		
11/18/2014	14:58:00	20.624	0.434	-0.006	0.113		
11/18/2014	14:59:00	20.645	0.422	0.038	-0.007		
11/18/2014	15:00:00	20.631	0.42	0.062	-0.009		
11/18/2014	15:01:00	20.621	0.426	0.06	-0.009		
11/18/2014	15:02:00	20.608	0.432	0.069	-0.008		
11/18/2014	15:03:00	20.592	0.445	0.099	-0.01		

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2014 PGE Colusa Unit 1 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/18/2014	15:04:00	20.575	0.457	0.161	-0.006		
11/18/2014	15:05:00	20.559	0.466	0.258	-0.005		
11/18/2014	15:06:00	20.544	0.476	0.31	-0.002		
11/18/2014	15:07:00	20.53	0.481	0.326	-0.004		
11/18/2014	15:08:00	20.517	0.491	0.322	-0.003		
11/18/2014	15:09:00	20.505	0.503	0.297	-0.002		
11/18/2014	15:10:00	20.494	0.507	0.277	0		
11/18/2014	15:11:00	20.483	0.518	0.252	-0.007		
11/18/2014	15:12:00	20.472	0.525	0.234	-0.001		
11/18/2014	15:13:00	20.462	0.536	0.214	-0.003		
11/18/2014	15:14:00	20.452	0.551	0.202	-0.003		
11/18/2014	15:15:00	20.442	0.559	0.206	-0.003		
11/18/2014	15:16:00	20.432	0.57	0.198	-0.002		
11/18/2014	15:17:00	20.42	0.582	0.2	-0.003		
11/18/2014	15:18:00	20.411	0.589	0.196	-0.001		
11/18/2014	15:19:00	20.401	0.607	0.201	0.002		
11/18/2014	15:20:00	20.391	0.612	0.197	0.005		
11/18/2014	15:21:00	20.383	0.622	0.188	0.006		
11/18/2014	15:22:00	20.376	0.627	0.193	0.004		
11/18/2014	15:23:00	20.372	0.639	0.194	0		
11/18/2014	15:24:00	20.369	0.646	0.193	0.003		
11/18/2014	15:25:00	20.366	0.657	0.191	0.002		
11/18/2014	15:26:00	20.363	0.666	0.196	0.004		
11/18/2014	15:27:00	20.36	0.675	0.188	0.002		

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	6:23:00	20.776	0.963	0.037	0.058	0.002	
11/19/2014	6:24:00	20.761	0.961	0.036	0.062	0.002	
11/19/2014	6:25:00	20.743	0.963	0.04	0.058	0.002	
11/19/2014	6:26:00	20.729	0.96	0.043	0.062	0.002	
11/19/2014	6:27:00	20.71	0.96	0.031	0.059	0.002	
11/19/2014	6:28:00	20.696	0.961	0.03	0.064	0.002	
11/19/2014	6:29:00	12.512	0.631	0.091	0.055	0.002	
11/19/2014	6:30:00	0.102	0.136	-0.01	-0.084	0.002	
11/19/2014	6:31:00	0.06	0.047	-0.009	-0.009	0.002	
11/19/2014	6:32:00	0.041	0.047	-0.012	-0.013	-0.002	
11/19/2014	6:33:00	10.922	5.802	1.537	1.696	-0.006	
11/19/2014	6:34:00	18.954	9.328	4.938	9.388	4.339	
11/19/2014	6:35:00	18.979	9.388	0.078	9.601	1.656	
11/19/2014	6:36:00	18.977	9.393	1.38	9.597	2.268	
11/19/2014	6:37:00	18.975	9.403	4.045	9.6	4.745	Direct High
11/19/2014	6:38:00	4.935	2.08	4.712	6.731	3.859	
11/19/2014	6:39:00	0.059	0.057	0.683	0.031	-0.004	
11/19/2014	6:40:00	0.032	0.058	0.006	-0.015	0.011	Direct Zero
11/19/2014	6:41:00	7.222	3.946	0.433	1.332	1.099	
11/19/2014	6:42:00	9.987	5.088	2.386	4.641	2.364	
11/19/2014	6:43:00	10.009	5.087	2.382	4.683	2.409	Direct Mid
11/19/2014	6:44:00	15.132	2.51	2.927	3.767	2.832	
11/19/2014	6:45:00	20.755	0.124	4.554	0.183	4.719	
11/19/2014	6:46:00	20.772	0.123	4.71	0.082	4.735	Direct NOx High
11/19/2014	6:47:00	20.792	0.122	4.708	0.103	4.738	
11/19/2014	6:48:00	20.788	0.127	2.247	0.088	0.692	
11/19/2014	6:49:00	20.782	0.133	0.609	0.085	-0.003	
11/19/2014	6:50:00	20.776	0.129	3.302	0.088	0.022	
11/19/2014	6:51:00	20.772	0.134	3.31	0.088	0.028	
11/19/2014	6:52:00	20.768	0.127	3.312	0.087	0.039	
11/19/2014	6:53:00	20.77	0.14	0.529	0.088	0.009	
11/19/2014	6:54:00	20.749	0.14	0.019	0.085	-0.011	
11/19/2014	6:55:00	20.744	0.144	0.007	0.097	-0.012	
11/19/2014	6:56:00	20.741	0.142	0.014	0.094	-0.015	
11/19/2014	6:57:00	20.74	0.141	0.014	0.101	-0.01	
11/19/2014	6:58:00	20.741	0.146	0.021	0.099	-0.009	
11/19/2014	6:59:00	20.742	0.146	0.031	0.102	-0.006	
11/19/2014	7:00:00	20.744	0.151	0.041	0.097	-0.004	
11/19/2014	7:01:00	20.748	0.154	0.021	0.106	-0.01	
11/19/2014	7:02:00	20.75	0.153	0.021	0.097	-0.016	
11/19/2014	7:03:00	20.746	0.156	0.03	0.1	-0.016	
11/19/2014	7:04:00	20.751	0.155	0.022	0.096	-0.006	
11/19/2014	7:05:00	20.749	0.155	0.014	0.102	-0.002	
11/19/2014	7:06:00	20.75	0.154	0.014	0.096	-0.011	
11/19/2014	7:07:00	20.75	0.153	0.019	0.091	-0.002	
11/19/2014	7:08:00	20.752	0.152	0.02	0.092	0	
11/19/2014	7:09:00	20.748	0.157	0.017	0.105	0.007	
11/19/2014	7:10:00	20.754	0.159	1.744	0.103	0.022	
11/19/2014	7:11:00	20.76	0.159	3.339	0.099	0.029	
11/19/2014	7:12:00	20.762	0.16	3.299	0.104	0.03	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	7:13:00	20.765	0.159	3.318	0.106	0.026	
11/19/2014	7:14:00	20.767	0.16	3.326	0.105	0.022	
11/19/2014	7:15:00	20.768	0.161	3.327	0.106	0.019	
11/19/2014	7:16:00	20.771	0.161	2.653	0.107	0.026	
11/19/2014	7:17:00	20.773	0.168	-0.009	0.103	0.002	
11/19/2014	7:18:00	20.778	0.163	1.541	0.102	3.17	
11/19/2014	7:19:00	20.779	0.163	4.828	0.099	4.836	Direct High NOx
11/19/2014	7:20:00	20.779	0.164	3.536	0.099	2.223	
11/19/2014	7:21:00	20.778	0.169	0.31	0.101	0.006	
11/19/2014	7:22:00	20.782	0.161	0.039	0.1	-0.005	Direct Zero NOx
11/19/2014	7:23:00	20.784	0.169	1.441	0.097	0.771	
11/19/2014	7:24:00	20.787	0.164	2.449	0.096	2.429	
11/19/2014	7:25:00	20.789	0.169	2.452	0.1	2.446	Direct Mid NOx
11/19/2014	7:26:00	20.784	0.169	1.821	0.096	1.175	
11/19/2014	7:27:00	20.78	0.166	0.223	0.1	0	
11/19/2014	7:28:00	20.78	0.169	0.091	0.096	-0.009	
11/19/2014	7:29:00	20.78	0.174	0.097	0.095	-0.008	
11/19/2014	7:30:00	20.779	0.178	0.093	0.095	-0.005	
11/19/2014	7:31:00	20.778	0.178	0.088	0.094	-0.012	
11/19/2014	7:32:00	20.776	0.177	0.081	0.098	0.017	
11/19/2014	7:33:00	20.775	0.177	0.074	0.096	-0.009	
11/19/2014	7:34:00	20.775	0.18	0.069	0.097	-0.012	
11/19/2014	7:35:00	20.775	0.18	0.064	0.1	0.005	
11/19/2014	7:36:00	20.782	0.172	3.204	0.103	0.025	
11/19/2014	7:37:00	20.784	0.18	3.434	0.096	0.028	Direct NO2
11/19/2014	7:38:00	20.782	0.184	2.426	0.097	0.243	
11/19/2014	7:39:00	14.487	3.264	0.148	0.062	0	
11/19/2014	7:40:00	9.98	5.107	0.047	-0.242	0.001	Sys O2/CO2
11/19/2014	7:41:00	4.126	1.816	0.06	-0.21	0.771	
11/19/2014	7:42:00	0.093	0.157	2.439	-0.013	2.434	Sys NOx
11/19/2014	7:43:00	14.797	0.15	2.53	0.026	1.707	
11/19/2014	7:44:00	21.729	0.143	3.182	0.054	0.134	Sys N2
11/19/2014	7:45:00	21.702	0.152	3.197	0.051	0.831	
11/19/2014	7:46:00	20.348	0.719	1.634	0.08	0.879	
11/19/2014	7:47:00	13.829	4.201	0.941	0.096	0.693	
11/19/2014	7:48:00	13.763	4.213	1.41	0.116	1.17	
11/19/2014	7:49:00	13.763	4.213	1.419	0.119	1.187	
11/19/2014	7:50:00	13.778	4.209	1.373	0.122	1.152	
11/19/2014	7:51:00	13.789	4.206	1.338	0.134	1.111	
11/19/2014	7:52:00	13.792	4.205	1.283	0.129	1.083	
11/19/2014	7:53:00	13.792	4.204	1.3	0.133	1.086	
11/19/2014	7:54:00	13.796	4.209	1.273	0.135	1.076	
11/19/2014	7:55:00	13.795	4.211	1.31	0.133	1.058	
11/19/2014	7:56:00	13.791	4.205	1.264	0.139	1.054	
11/19/2014	7:57:00	13.782	4.213	1.273	0.138	1.057	
11/19/2014	7:58:00	13.781	4.217	1.315	0.133	1.085	
11/19/2014	7:59:00	13.781	4.216	1.309	0.126	1.104	
11/19/2014	8:00:00	13.784	4.216	1.307	0.134	1.081	
11/19/2014	8:01:00	15.436	3.275	1.306	0.123	0.98	
11/19/2014	8:02:00	13.805	4.212	1.129	0.107	1.014	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	8:03:00	13.787	4.219	1.379	0.123	1.152	
11/19/2014	8:04:00	13.788	4.217	1.366	0.115	1.163	
11/19/2014	8:05:00	13.785	4.22	1.395	0.125	1.155	
11/19/2014	8:06:00	13.786	4.223	1.378	0.123	1.19	
11/19/2014	8:07:00	13.785	4.225	1.4	0.126	1.163	
11/19/2014	8:08:00	13.785	4.22	1.388	0.124	1.182	
11/19/2014	8:09:00	13.788	4.222	1.387	0.12	1.159	
11/19/2014	8:10:00	13.791	4.224	1.384	0.123	1.179	
11/19/2014	8:11:00	15.211	3.357	1.392	0.12	1.17	
11/19/2014	8:12:00	13.906	4.211	1.192	0.099	1.138	
11/19/2014	8:13:00	13.8	4.217	1.362	0.123	1.204	
11/19/2014	8:14:00	13.795	4.226	1.355	0.119	1.167	
11/19/2014	8:15:00	13.796	4.219	1.351	0.122	1.157	
11/19/2014	8:16:00	13.797	4.223	1.346	0.115	1.155	
11/19/2014	8:17:00	13.794	4.226	1.355	0.122	1.165	
11/19/2014	8:18:00	13.794	4.223	1.384	0.122	1.164	
11/19/2014	8:19:00	13.79	4.231	1.402	0.127	1.183	
11/19/2014	8:20:00	13.789	4.227	1.393	0.124	1.199	
11/19/2014	8:21:00	14.796	3.653	1.347	0.117	1.124	
11/19/2014	8:22:00	13.795	4.228	1.244	0.122	1.083	
11/19/2014	8:23:00	13.787	4.228	1.321	0.13	1.153	
11/19/2014	8:24:00	13.784	4.232	1.317	0.132	1.162	
11/19/2014	8:25:00	13.784	4.231	1.347	0.136	1.152	
11/19/2014	8:26:00	13.8	4.225	1.264	0.13	1.113	
11/19/2014	8:27:00	13.803	4.222	1.235	0.134	1.091	
11/19/2014	8:28:00	13.813	4.214	1.212	0.137	1.072	
11/19/2014	8:29:00	12.682	4.403	1.2	0.077	0.767	
11/19/2014	8:30:00	10.377	4.983	0.129	-0.239	0.054	
11/19/2014	8:31:00	13.772	4.226	0.819	0.04	0.762	
11/19/2014	8:32:00	13.797	4.223	1.237	0.137	1.063	
11/19/2014	8:33:00	12.597	4.575	1.242	0.11	1.046	
11/19/2014	8:34:00	9.978	5.137	0.657	-0.225	0.333	
11/19/2014	8:35:00	9.968	5.141	0.025	-0.26	-0.01	Sys O2/CO2
11/19/2014	8:36:00	2.867	1.231	0.774	-0.196	0.523	
11/19/2014	8:37:00	0.04	0.164	2.424	-0.016	2.424	Sys NOx
11/19/2014	8:38:00	15.395	0.162	2.63	0.016	1.962	
11/19/2014	8:39:00	21.796	0.16	3.103	0.041	0.064	Sys NO2
11/19/2014	8:40:00	19.527	1.613	3.118	0.032	0.048	
11/19/2014	8:41:00	13.804	4.222	1.89	0.117	1.047	
11/19/2014	8:42:00	13.788	4.228	1.236	0.136	1.068	
11/19/2014	8:43:00	13.781	4.237	1.238	0.134	1.027	
11/19/2014	8:44:00	13.781	4.233	1.218	0.134	1.063	
11/19/2014	8:45:00	13.781	4.232	1.228	0.143	1.077	
11/19/2014	8:46:00	13.785	4.229	1.22	0.145	1.066	
11/19/2014	8:47:00	13.775	4.237	1.205	0.146	1.062	
11/19/2014	8:48:00	13.77	4.232	1.264	0.142	1.102	
11/19/2014	8:49:00	13.77	4.238	1.263	0.138	1.089	
11/19/2014	8:50:00	13.767	4.243	1.27	0.143	1.046	
11/19/2014	8:51:00	14.642	3.478	1.273	0.133	1.102	
11/19/2014	8:52:00	14.362	4.157	1.172	0.099	1.148	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	8:53:00	13.771	4.229	1.384	0.136	1.182	
11/19/2014	8:54:00	13.771	4.233	1.378	0.136	1.177	
11/19/2014	8:55:00	13.775	4.231	1.357	0.132	1.188	
11/19/2014	8:56:00	13.773	4.233	1.339	0.131	1.16	
11/19/2014	8:57:00	13.771	4.235	1.354	0.14	1.163	
11/19/2014	8:58:00	13.773	4.231	1.368	0.14	1.173	
11/19/2014	8:59:00	13.767	4.24	1.384	0.146	1.184	
11/19/2014	9:00:00	13.767	4.24	1.388	0.141	1.205	
11/19/2014	9:01:00	14.752	3.679	1.381	0.134	1.171	
11/19/2014	9:02:00	13.787	4.23	1.178	0.133	1.087	
11/19/2014	9:03:00	13.779	4.238	1.259	0.141	1.12	
11/19/2014	9:04:00	13.775	4.233	1.263	0.148	1.13	
11/19/2014	9:05:00	13.773	4.238	1.276	0.152	1.119	
11/19/2014	9:06:00	13.773	4.238	1.261	0.148	1.125	
11/19/2014	9:07:00	13.773	4.237	1.27	0.157	1.113	
11/19/2014	9:08:00	13.779	4.235	1.259	0.144	1.11	
11/19/2014	9:09:00	13.778	4.236	1.251	0.139	1.106	
11/19/2014	9:10:00	13.778	4.238	1.245	0.146	1.105	
11/19/2014	9:11:00	14.339	3.65	1.242	0.146	1.102	
11/19/2014	9:12:00	14.746	3.945	1.173	0.109	1.099	
11/19/2014	9:13:00	13.76	4.25	1.346	0.128	1.189	
11/19/2014	9:14:00	13.757	4.25	1.352	0.127	1.198	
11/19/2014	9:15:00	13.753	4.248	1.355	0.134	1.178	
11/19/2014	9:16:00	13.753	4.247	1.362	0.134	1.203	
11/19/2014	9:17:00	13.749	4.251	1.371	0.128	1.209	
11/19/2014	9:18:00	13.765	4.244	1.369	0.128	1.204	
11/19/2014	9:19:00	13.767	4.242	1.353	0.132	1.176	
11/19/2014	9:20:00	13.771	4.239	1.347	0.13	1.179	
11/19/2014	9:21:00	13.348	4.265	1.331	0.107	1.116	
11/19/2014	9:22:00	9.975	5.148	0.69	-0.215	0.351	
11/19/2014	9:23:00	9.96	5.152	-0.007	-0.25	-0.009	Sys O2/CO2
11/19/2014	9:24:00	3.346	1.49	0.774	-0.203	0.218	
11/19/2014	9:25:00	0.03	0.179	2.424	-0.014	2.417	Sys NOx
11/19/2014	9:26:00	11.663	0.175	2.581	0.008	2.442	
11/19/2014	9:27:00	21.767	0.172	3.042	0.04	0.095	
11/19/2014	9:28:00	21.794	0.172	3.138	0.037	0.059	Sys NO2
11/19/2014	9:29:00	16.036	3.378	2.808	0.051	0.428	
11/19/2014	9:30:00	13.753	4.245	1.392	0.129	1.19	
11/19/2014	9:31:00	13.745	4.244	1.385	0.123	1.195	
11/19/2014	9:32:00	13.742	4.244	1.408	0.121	1.209	
11/19/2014	9:33:00	13.742	4.249	1.398	0.128	1.206	
11/19/2014	9:34:00	13.746	4.246	1.385	0.128	1.229	
11/19/2014	9:35:00	13.748	4.246	1.383	0.13	1.208	
11/19/2014	9:36:00	13.749	4.249	1.385	0.133	1.208	
11/19/2014	9:37:00	13.756	4.255	1.372	0.131	1.202	
11/19/2014	9:38:00	13.758	4.253	1.373	0.133	1.191	
11/19/2014	9:39:00	15.33	3.362	1.237	0.115	1.167	
11/19/2014	9:40:00	13.777	4.252	1.249	0.153	1.139	
11/19/2014	9:41:00	13.778	4.247	1.234	0.15	1.081	
11/19/2014	9:42:00	13.779	4.246	1.202	0.149	1.055	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	9:43:00	13.782	4.249	1.196	0.155	1.053	
11/19/2014	9:44:00	13.757	4.262	1.208	0.142	1.08	
11/19/2014	9:45:00	13.758	4.264	1.269	0.153	1.11	
11/19/2014	9:46:00	13.757	4.258	1.273	0.16	1.131	
11/19/2014	9:47:00	13.757	4.267	1.287	0.153	1.137	
11/19/2014	9:48:00	13.76	4.266	1.285	0.156	1.147	
11/19/2014	9:49:00	15.124	3.484	1.27	0.141	1.099	
11/19/2014	9:50:00	13.776	4.265	1.115	0.126	1.145	
11/19/2014	9:51:00	13.758	4.272	1.366	0.141	1.22	
11/19/2014	9:52:00	13.765	4.265	1.371	0.141	1.204	
11/19/2014	9:53:00	13.779	4.255	1.334	0.134	1.16	
11/19/2014	9:54:00	13.79	4.256	1.28	0.146	1.12	
11/19/2014	9:55:00	13.771	4.263	1.296	0.143	1.125	
11/19/2014	9:56:00	13.769	4.264	1.316	0.142	1.156	
11/19/2014	9:57:00	13.77	4.261	1.335	0.145	1.175	
11/19/2014	9:58:00	14.791	3.678	1.303	0.126	1.177	
11/19/2014	9:59:00	13.773	4.268	1.288	0.138	1.125	
11/19/2014	10:00:00	13.765	4.269	1.346	0.143	1.171	
11/19/2014	10:01:00	13.764	4.266	1.346	0.141	1.187	
11/19/2014	10:02:00	13.762	4.263	1.345	0.149	1.191	
11/19/2014	10:03:00	13.76	4.262	1.36	0.151	1.189	
11/19/2014	10:04:00	13.761	4.261	1.376	0.151	1.188	
11/19/2014	10:05:00	13.761	4.264	1.365	0.149	1.194	
11/19/2014	10:06:00	13.76	4.263	1.357	0.15	1.202	
11/19/2014	10:07:00	13.764	4.268	1.363	0.149	1.197	
11/19/2014	10:08:00	11.994	4.606	1.247	0.018	1.08	
11/19/2014	10:09:00	9.962	5.177	0.35	-0.258	0.015	
11/19/2014	10:10:00	9.955	5.173	-0.002	-0.267	-0.006	Sys O2/CO2
11/19/2014	10:11:00	3.134	1.402	0.274	-0.209	0.782	
11/19/2014	10:12:00	0.021	0.2	2.395	-0.023	2.44	Sys NOx
11/19/2014	10:13:00	15.171	0.192	2.461	0.007	1.685	
11/19/2014	10:14:00	21.785	0.19	3.093	0.034	0.066	Sys NO2
11/19/2014	10:15:00	15.248	3.502	3.175	0.036	0.048	
11/19/2014	10:16:00	9.98	5.156	3.3	0.104	0.023	Direct NO2
11/19/2014	10:17:00	9.968	5.158	2.828	0.173	0.809	
11/19/2014	10:18:00	9.963	5.157	2.429	0.166	2.458	Direct Mid
11/19/2014	10:19:00	1.993	1.024	2.43	0.159	1.668	
11/19/2014	10:20:00	-0.005	0.15	0.019	0.155	-0.013	Direct Zero
11/19/2014	10:21:00	11.524	3.722	0.608	0.172	0.437	
11/19/2014	10:22:00	13.715	4.254	1.533	0.168	1.364	
11/19/2014	10:23:00	13.722	4.265	1.548	0.171	1.363	
11/19/2014	10:24:00	13.726	4.272	1.559	0.169	1.371	
11/19/2014	10:25:00	13.727	4.274	1.555	0.172	1.362	
11/19/2014	10:26:00	13.733	4.263	1.568	0.176	1.365	
11/19/2014	10:27:00	13.74	4.264	1.544	0.18	1.352	
11/19/2014	10:28:00	13.746	4.266	1.539	0.165	1.347	
11/19/2014	10:29:00	13.748	4.264	1.545	0.177	1.358	
11/19/2014	10:30:00	13.752	4.263	1.54	0.168	1.356	
11/19/2014	10:31:00	13.753	4.263	1.541	0.162	1.352	
11/19/2014	10:32:00	13.749	4.26	1.543	0.166	1.353	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	10:33:00	13.748	4.271	1.561	0.164	1.363	
11/19/2014	10:34:00	14.797	3.665	1.51	0.158	1.355	
11/19/2014	10:35:00	13.759	4.269	1.566	0.147	1.275	
11/19/2014	10:36:00	13.749	4.265	1.648	0.159	1.425	
11/19/2014	10:37:00	13.751	4.267	1.642	0.164	1.403	
11/19/2014	10:38:00	13.752	4.262	1.622	0.151	1.411	
11/19/2014	10:39:00	13.752	4.261	1.632	0.16	1.415	
11/19/2014	10:40:00	13.753	4.264	1.617	0.164	1.438	
11/19/2014	10:41:00	13.756	4.263	1.614	0.159	1.423	
11/19/2014	10:42:00	13.756	4.27	1.601	0.159	1.415	
11/19/2014	10:43:00	13.756	4.267	1.582	0.154	1.386	
11/19/2014	10:44:00	14.982	3.574	1.506	0.139	1.396	
11/19/2014	10:45:00	13.769	4.264	1.439	0.15	1.298	
11/19/2014	10:46:00	13.762	4.268	1.47	0.165	1.295	
11/19/2014	10:47:00	13.761	4.265	1.476	0.165	1.3	
11/19/2014	10:48:00	13.76	4.264	1.47	0.157	1.309	
11/19/2014	10:49:00	13.761	4.266	1.461	0.168	1.295	
11/19/2014	10:50:00	13.762	4.261	1.474	0.166	1.29	
11/19/2014	10:51:00	13.761	4.262	1.47	0.155	1.288	
11/19/2014	10:52:00	13.763	4.257	1.462	0.155	1.301	
11/19/2014	10:53:00	13.764	4.256	1.465	0.157	1.29	
11/19/2014	10:54:00	15.301	3.384	1.405	0.135	1.298	
11/19/2014	10:55:00	13.773	4.26	1.429	0.128	1.233	
11/19/2014	10:56:00	13.76	4.266	1.51	0.154	1.335	
11/19/2014	10:57:00	13.759	4.263	1.502	0.141	1.331	
11/19/2014	10:58:00	13.755	4.268	1.504	0.141	1.333	
11/19/2014	10:59:00	13.759	4.261	1.485	0.142	1.328	
11/19/2014	11:00:00	13.76	4.262	1.496	0.143	1.312	
11/19/2014	11:01:00	13.76	4.266	1.486	0.152	1.312	
11/19/2014	11:02:00	13.762	4.263	1.503	0.149	1.319	
11/19/2014	11:03:00	13.763	4.27	1.505	0.144	1.306	
11/19/2014	11:04:00	12.399	4.517	1.426	0.06	1.321	
11/19/2014	11:05:00	9.956	5.166	0.446	-0.253	0.015	
11/19/2014	11:06:00	9.946	5.174	-0.01	-0.266	-0.001	Sys O2/CO2
11/19/2014	11:07:00	3.285	1.481	0.187	-0.211	0.767	
11/19/2014	11:08:00	0.012	0.195	2.384	-0.026	2.437	Sys NOx
11/19/2014	11:09:00	16.346	0.19	2.552	0.006	1.677	
11/19/2014	11:10:00	21.776	0.2	3.143	0.029	0.081	
11/19/2014	11:11:00	15.195	3.818	2.468	0.067	0.487	Sys NO2 1110
11/19/2014	11:12:00	13.746	4.26	1.587	0.145	1.366	
11/19/2014	11:13:00	13.74	4.261	1.572	0.14	1.364	
11/19/2014	11:14:00	13.74	4.261	1.567	0.154	1.366	
11/19/2014	11:15:00	13.743	4.262	1.568	0.153	1.354	
11/19/2014	11:16:00	13.745	4.263	1.573	0.155	1.358	
11/19/2014	11:17:00	13.747	4.261	1.572	0.153	1.377	
11/19/2014	11:18:00	13.749	4.257	1.563	0.141	1.355	
11/19/2014	11:19:00	13.749	4.263	1.569	0.153	1.372	
11/19/2014	11:20:00	13.75	4.263	1.566	0.15	1.377	
11/19/2014	11:21:00	14.824	3.654	1.572	0.131	1.103	
11/19/2014	11:22:00	13.763	4.257	1.488	0.138	1.041	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	11:23:00	13.761	4.257	1.475	0.148	1.301	
11/19/2014	11:24:00	13.76	4.259	1.482	0.153	1.31	
11/19/2014	11:25:00	13.759	4.26	1.493	0.151	1.297	
11/19/2014	11:26:00	13.761	4.261	1.474	0.16	1.293	
11/19/2014	11:27:00	13.761	4.262	1.475	0.162	1.295	
11/19/2014	11:28:00	13.762	4.257	1.482	0.156	1.307	
11/19/2014	11:29:00	13.761	4.26	1.486	0.156	1.303	
11/19/2014	11:30:00	13.76	4.262	1.468	0.151	1.311	
11/19/2014	11:31:00	14.997	3.549	1.484	0.144	1.298	
11/19/2014	11:32:00	13.776	4.26	1.344	0.128	1.32	
11/19/2014	11:33:00	13.755	4.263	1.554	0.144	1.363	
11/19/2014	11:34:00	13.751	4.262	1.558	0.148	1.367	
11/19/2014	11:35:00	13.753	4.261	1.559	0.148	1.374	
11/19/2014	11:36:00	13.752	4.258	1.568	0.149	1.377	
11/19/2014	11:37:00	13.753	4.26	1.56	0.158	1.369	
11/19/2014	11:38:00	13.754	4.258	1.569	0.15	1.37	
11/19/2014	11:39:00	13.758	4.258	1.551	0.141	1.361	
11/19/2014	11:40:00	13.759	4.26	1.55	0.148	1.366	
11/19/2014	11:41:00	14.656	3.752	1.554	0.141	1.101	
11/19/2014	11:42:00	13.773	4.254	1.439	0.16	1.031	
11/19/2014	11:43:00	13.767	4.251	1.428	0.154	1.276	
11/19/2014	11:44:00	13.766	4.251	1.441	0.164	1.272	
11/19/2014	11:45:00	13.765	4.253	1.435	0.154	1.276	
11/19/2014	11:46:00	13.762	4.256	1.444	0.15	1.283	
11/19/2014	11:47:00	13.763	4.248	1.444	0.154	1.283	
11/19/2014	11:48:00	13.762	4.249	1.446	0.161	1.271	
11/19/2014	11:49:00	13.761	4.247	1.441	0.16	1.289	
11/19/2014	11:50:00	13.764	4.253	1.433	0.168	1.282	
11/19/2014	11:51:00	13.2	4.315	1.439	0.132	1.217	
11/19/2014	11:52:00	9.961	5.151	0.722	-0.223	0.376	
11/19/2014	11:53:00	9.947	5.156	-0.009	-0.264	-0.015	Sys O2/CO2
11/19/2014	11:54:00	2.067	0.868	0.774	-0.183	1.175	
11/19/2014	11:55:00	0.007	0.196	2.418	-0.015	2.44	Sys NOx
11/19/2014	11:56:00	17.44	0.19	2.661	0.011	1.195	
11/19/2014	11:57:00	21.78	0.187	3.151	0.031	0.063	Sys NO2
11/19/2014	11:58:00	15.289	3.763	2.634	0.072	0.732	
11/19/2014	11:59:00	13.747	4.243	1.503	0.159	1.29	
11/19/2014	12:00:00	13.74	4.24	1.466	0.158	1.283	
11/19/2014	12:01:00	13.741	4.239	1.46	0.155	1.298	
11/19/2014	12:02:00	13.741	4.25	1.477	0.158	1.283	
11/19/2014	12:03:00	13.745	4.25	1.485	0.158	1.298	
11/19/2014	12:04:00	13.749	4.244	1.463	0.163	1.291	
11/19/2014	12:05:00	13.75	4.244	1.454	0.17	1.274	
11/19/2014	12:06:00	13.751	4.254	1.466	0.179	1.283	
11/19/2014	12:07:00	15.472	3.272	1.455	0.158	1.057	
11/19/2014	12:08:00	13.772	4.242	1.342	0.133	1.056	
11/19/2014	12:09:00	13.758	4.242	1.496	0.15	1.308	
11/19/2014	12:10:00	13.758	4.244	1.485	0.159	1.31	
11/19/2014	12:11:00	13.757	4.244	1.491	0.2	1.302	
11/19/2014	12:12:00	13.757	4.243	1.494	0.19	1.303	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	12:13:00	13.761	4.241	1.488	0.173	1.316	
11/19/2014	12:14:00	13.764	4.238	1.501	0.168	1.309	
11/19/2014	12:15:00	13.765	4.238	1.486	0.159	1.309	
11/19/2014	12:16:00	13.765	4.25	1.488	0.17	1.305	
11/19/2014	12:17:00	14.341	3.662	1.479	0.157	1.302	
11/19/2014	12:18:00	14.317	4.186	1.32	0.141	1.26	
11/19/2014	12:19:00	13.775	4.237	1.413	0.16	1.253	
11/19/2014	12:20:00	13.765	4.234	1.418	0.164	1.242	
11/19/2014	12:21:00	13.764	4.24	1.408	0.16	1.25	
11/19/2014	12:22:00	13.761	4.233	1.415	0.158	1.248	
11/19/2014	12:23:00	13.758	4.237	1.408	0.16	1.252	
11/19/2014	12:24:00	13.759	4.243	1.424	0.167	1.245	
11/19/2014	12:25:00	13.76	4.236	1.42	0.165	1.258	
11/19/2014	12:26:00	13.761	4.24	1.426	0.173	1.256	
11/19/2014	12:27:00	15.112	3.48	1.414	0.147	1.031	
11/19/2014	12:28:00	13.767	4.243	1.45	0.15	1.058	
11/19/2014	12:29:00	13.758	4.242	1.468	0.159	1.293	
11/19/2014	12:30:00	13.759	4.244	1.5	0.164	1.306	
11/19/2014	12:31:00	13.761	4.242	1.509	0.155	1.306	
11/19/2014	12:32:00	13.758	4.25	1.509	0.149	1.311	
11/19/2014	12:33:00	13.758	4.246	1.507	0.152	1.315	
11/19/2014	12:34:00	13.759	4.244	1.498	0.146	1.31	
11/19/2014	12:35:00	13.763	4.245	1.486	0.155	1.304	
11/19/2014	12:36:00	13.763	4.243	1.482	0.152	1.301	
11/19/2014	12:37:00	11.148	4.795	1.348	-0.063	0.876	
11/19/2014	12:38:00	9.957	5.149	0.006	-0.262	-0.008	Sys O2/CO2
11/19/2014	12:39:00	5.649	2.646	0	-0.243	0.474	
11/19/2014	12:40:00	0.019	0.186	2.378	-0.039	2.115	
11/19/2014	12:41:00	-0.009	0.176	2.435	-0.007	2.464	Sys NOx
11/19/2014	12:42:00	-0.019	0.171	1.828	2.184	1.25	
11/19/2014	12:43:00	-0.034	0.172	0.204	4.673	0	Sys CO
11/19/2014	12:44:00	13.52	0.164	0.991	3.417	0	
11/19/2014	12:45:00	19.703	0.8	3.125	0.141	0.07	Sys NO2
11/19/2014	12:46:00	9.984	5.124	3.209	0.032	0.038	
11/19/2014	12:47:00	9.952	5.12	3.298	0.145	0.028	Direct NO2
11/19/2014	12:48:00	9.95	5.127	3.006	0.183	1.625	
11/19/2014	12:49:00	9.948	5.127	2.422	0.17	2.448	Direct Mid
11/19/2014	12:50:00	1.77	0.937	1.995	0.174	1.577	
11/19/2014	12:51:00	-0.027	0.132	0.123	0.169	0.006	Direct Zero
11/19/2014	12:52:00	10.864	3.641	0.51	0.174	0.441	
11/19/2014	12:53:00	13.543	4.312	1.504	0.172	1.298	
11/19/2014	12:54:00	13.553	4.312	1.411	0.172	1.249	
11/19/2014	12:55:00	13.56	4.31	1.359	0.167	1.207	
11/19/2014	12:56:00	13.563	4.313	1.35	0.173	1.173	
11/19/2014	12:57:00	13.564	4.312	1.362	0.169	1.195	
11/19/2014	12:58:00	13.565	4.307	1.413	0.167	1.235	
11/19/2014	12:59:00	13.568	4.309	1.439	0.172	1.254	
11/19/2014	13:00:00	13.571	4.315	1.453	0.164	1.264	
11/19/2014	13:01:00	13.571	4.312	1.461	0.167	1.288	
11/19/2014	13:02:00	13.575	4.307	1.45	0.168	1.259	

2014 PGE Clusa Unit 2 Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/19/2014	13:03:00	13.575	4.304	1.469	0.165	1.274	
11/19/2014	13:04:00	14.726	3.657	1.415	0.157	1.286	
11/19/2014	13:05:00	13.584	4.303	1.372	0.161	1.253	
11/19/2014	13:06:00	13.58	4.303	1.439	0.176	1.261	
11/19/2014	13:07:00	13.58	4.308	1.43	0.169	1.264	
11/19/2014	13:08:00	13.58	4.312	1.441	0.173	1.278	
11/19/2014	13:09:00	13.58	4.306	1.453	0.169	1.273	
11/19/2014	13:10:00	13.578	4.301	1.445	0.174	1.263	
11/19/2014	13:11:00	13.578	4.302	1.447	0.17	1.279	
11/19/2014	13:12:00	13.579	4.311	1.449	0.173	1.274	
11/19/2014	13:13:00	13.58	4.312	1.469	0.177	1.293	
11/19/2014	13:14:00	14.893	3.558	1.425	0.158	1.279	
11/19/2014	13:15:00	13.6	4.301	1.471	0.15	1.095	
11/19/2014	13:16:00	13.576	4.313	1.511	0.166	1.314	
11/19/2014	13:17:00	13.575	4.314	1.499	0.163	1.303	
11/19/2014	13:18:00	13.575	4.309	1.498	0.164	1.31	
11/19/2014	13:19:00	13.573	4.305	1.503	0.167	1.304	
11/19/2014	13:20:00	13.571	4.305	1.509	0.165	1.312	
11/19/2014	13:21:00	13.577	4.314	1.491	0.158	1.297	
11/19/2014	13:22:00	13.572	4.313	1.486	0.163	1.305	
11/19/2014	13:23:00	13.573	4.317	1.511	0.163	1.303	
11/19/2014	13:24:00	14.6	3.726	1.451	0.152	1.307	
11/19/2014	13:25:00	13.584	4.307	1.427	0.152	1.235	
11/19/2014	13:26:00	13.577	4.314	1.513	0.166	1.333	
11/19/2014	13:27:00	13.576	4.315	1.5	0.167	1.317	
11/19/2014	13:28:00	13.577	4.312	1.491	0.162	1.297	
11/19/2014	13:29:00	13.582	4.321	1.487	0.166	1.3	
11/19/2014	13:30:00	13.581	4.321	1.493	0.166	1.293	
11/19/2014	13:31:00	13.58	4.318	1.49	0.16	1.309	
11/19/2014	13:32:00	13.581	4.312	1.485	0.163	1.313	
11/19/2014	13:33:00	13.58	4.319	1.477	0.163	1.309	
11/19/2014	13:34:00	12.193	4.545	1.434	0.064	1.321	
11/19/2014	13:35:00	9.92	5.15	0.458	-0.255	0.013	
11/19/2014	13:36:00	9.913	5.151	0.003	-0.262	0.001	Sys O2/CO2
11/19/2014	13:37:00	2.713	1.197	0.533	-0.192	0.781	
11/19/2014	13:38:00	-0.002	0.189	2.405	-0.018	2.444	Sys NOx
11/19/2014	13:39:00	-0.023	0.178	2.418	1.83	1.657	
11/19/2014	13:40:00	-0.036	0.18	0.029	4.666	0	Sys CO
11/19/2014	13:41:00	15.287	0.173	0.422	2.936	0.025	
11/19/2014	13:42:00	21.709	0.171	3.077	0.045	0.074	Sys NO2
11/19/2014	13:43:00	17.477	2.631	3.141	0.047	0.466	

2014 PGE Clusa Unit 2 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	7:25:00	-0.052	0.03	-0.013	-0.003	-0.007	Direct Zero
11/20/2014	7:26:00	15.877	8.379	1.537	3.717	0.553	
11/20/2014	7:27:00	18.977	9.39	4.792	9.645	4.69	
11/20/2014	7:28:00	18.999	9.396	4.752	9.653	4.776	Direct High
11/20/2014	7:29:00	11.459	5.525	5.17	7.889	4.023	
11/20/2014	7:30:00	9.98	5.038	2.444	4.71	2.428	
11/20/2014	7:31:00	9.975	5.043	2.404	4.725	2.432	Direct Mid
11/20/2014	7:32:00	15.346	2.508	2.529	4.015	1.517	
11/20/2014	7:33:00	20.859	0.101	2.248	1.103	0.032	
11/20/2014	7:34:00	20.86	0.1	0.505	0.113	0.018	
11/20/2014	7:35:00	20.858	0.1	2.209	0.117	0.025	
11/20/2014	7:36:00	20.855	0.098	0.402	0.117	0.014	
11/20/2014	7:37:00	20.852	0.091	3.405	0.124	0.025	Direct NO2
11/20/2014	7:38:00	20.836	0.097	2.94	0.12	0.021	
11/20/2014	7:39:00	14.405	3.378	0.133	0.026	0.001	
11/20/2014	7:40:00	9.957	5.041	0.074	-0.238	-0.002	
11/20/2014	7:41:00	9.937	5.054	0.031	-0.237	-0.002	Sys O2/CO2
11/20/2014	7:42:00	4.698	2.052	0.327	-0.209	0.495	
11/20/2014	7:43:00	0.006	0.082	2.49	-0.002	2.151	
11/20/2014	7:44:00	-0.02	0.071	2.498	0.019	2.474	Sys NOx
11/20/2014	7:45:00	-0.033	0.067	2.473	0.783	2.185	
11/20/2014	7:46:00	-0.046	0.07	0.552	4.63	-0.002	
11/20/2014	7:47:00	-0.055	0.074	0.035	4.757	0.002	Sys CO
11/20/2014	7:48:00	12.621	0.072	0.396	3.491	0.066	
11/20/2014	7:49:00	21.693	0.07	3.072	0.118	0.112	
11/20/2014	7:50:00	21.727	0.07	3.146	0.067	0.085	Sys NO2
11/20/2014	7:51:00	17.797	2.507	3.217	0.085	0.221	
11/20/2014	7:52:00	11.597	5.348	1.906	0.328	1.276	
11/20/2014	7:53:00	11.58	5.368	1.7	0.344	1.415	
11/20/2014	7:54:00	11.582	5.376	1.808	0.35	1.572	
11/20/2014	7:55:00	11.583	5.377	1.91	0.341	1.664	
11/20/2014	7:56:00	11.586	5.369	2.011	0.342	1.721	
11/20/2014	7:57:00	11.595	5.377	2.04	0.347	1.801	
11/20/2014	7:58:00	11.597	5.378	2.096	0.353	1.862	
11/20/2014	7:59:00	11.604	5.375	2.199	0.363	1.916	
11/20/2014	8:00:00	11.628	5.379	2.17	0.361	1.84	
11/20/2014	8:01:00	11.638	5.369	2.056	0.356	1.784	
11/20/2014	8:02:00	11.641	5.37	1.869	0.356	1.578	
11/20/2014	8:03:00	11.631	5.374	1.604	0.351	1.372	
11/20/2014	8:04:00	13.73	4.18	1.384	0.305	1.006	
11/20/2014	8:05:00	11.704	5.339	1.307	0.313	1.105	
11/20/2014	8:06:00	11.697	5.336	1.518	0.329	1.302	
11/20/2014	8:07:00	11.689	5.335	1.749	0.332	1.474	
11/20/2014	8:08:00	11.695	5.328	1.863	0.333	1.595	
11/20/2014	8:09:00	11.692	5.33	1.968	0.333	1.654	
11/20/2014	8:10:00	11.696	5.326	2.044	0.324	1.704	
11/20/2014	8:11:00	11.695	5.334	2.08	0.332	1.791	
11/20/2014	8:12:00	11.686	5.338	2.175	0.33	1.824	
11/20/2014	8:13:00	11.683	5.336	2.153	0.322	1.854	
11/20/2014	8:14:00	13.446	4.328	2.116	0.301	1.842	

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2014 PGE Clusa Unit 2 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	8:15:00	11.64	5.367	1.918	0.317	1.794	
11/20/2014	8:16:00	11.621	5.376	1.932	0.361	1.622	
11/20/2014	8:17:00	11.617	5.377	1.633	0.356	1.391	
11/20/2014	8:18:00	11.619	5.371	1.432	0.354	1.212	
11/20/2014	8:19:00	11.618	5.373	1.305	0.349	1.122	
11/20/2014	8:20:00	11.616	5.376	1.321	0.356	1.138	
11/20/2014	8:21:00	11.614	5.37	1.498	0.356	1.316	
11/20/2014	8:22:00	11.609	5.377	1.699	0.35	1.483	
11/20/2014	8:23:00	11.612	5.38	1.831	0.357	1.561	
11/20/2014	8:24:00	13.547	4.264	1.89	0.317	1.63	
11/20/2014	8:25:00	11.645	5.361	1.777	0.267	1.691	
11/20/2014	8:26:00	11.63	5.369	2.029	0.303	1.777	
11/20/2014	8:27:00	11.624	5.367	2.1	0.303	1.798	
11/20/2014	8:28:00	11.623	5.364	2.117	0.294	1.814	
11/20/2014	8:29:00	11.625	5.368	2.104	0.297	1.829	
11/20/2014	8:30:00	11.621	5.374	2.048	0.296	1.723	
11/20/2014	8:31:00	11.614	5.377	1.883	0.293	1.624	
11/20/2014	8:32:00	11.615	5.375	1.705	0.297	1.442	
11/20/2014	8:33:00	11.623	5.306	1.514	0.293	1.275	
11/20/2014	8:34:00	11.046	4.872	1.334	0.036	0.739	
11/20/2014	8:35:00	10.413	5.169	0.351	-0.11	0.283	Sys O2/CO2
11/20/2014	8:36:00	10.594	5.209	0.57	-0.046	0.495	
11/20/2014	8:37:00	9.932	4.52	0.817	-0.005	0.685	
11/20/2014	8:38:00	0.07	0.096	2.122	-0.043	1.567	
11/20/2014	8:39:00	-0.044	0.089	2.458	0.012	2.484	sys NOx
11/20/2014	8:40:00	-0.057	0.086	2.164	2.579	1.354	
11/20/2014	8:41:00	-0.065	0.081	0	4.746	-0.013	Sys CO
11/20/2014	8:42:00	18.717	0.184	1.33	2.157	0.058	
11/20/2014	8:43:00	21.304	0.501	3.182	0.026	0.12	Sys NO2
11/20/2014	8:44:00	12.041	5.336	2.321	0.234	0.801	
11/20/2014	8:45:00	11.587	5.382	1.775	0.358	1.508	
11/20/2014	8:46:00	11.585	5.387	1.643	0.343	1.374	
11/20/2014	8:47:00	11.577	5.388	1.552	0.341	1.317	
11/20/2014	8:48:00	11.579	5.397	1.594	0.313	1.357	
11/20/2014	8:49:00	11.581	5.396	1.761	0.309	1.499	
11/20/2014	8:50:00	11.582	5.398	1.934	0.301	1.628	
11/20/2014	8:51:00	11.578	5.396	2.007	0.299	1.713	
11/20/2014	8:52:00	11.576	5.396	2.063	0.293	1.748	
11/20/2014	8:53:00	11.58	5.403	2.102	0.281	1.795	
11/20/2014	8:54:00	12.887	4.652	2.068	0.267	1.761	
11/20/2014	8:55:00	11.559	5.421	1.887	0.297	1.779	
11/20/2014	8:56:00	11.544	5.42	2.008	0.337	1.696	
11/20/2014	8:57:00	11.548	5.427	1.829	0.339	1.554	
11/20/2014	8:58:00	11.548	5.425	1.692	0.344	1.443	
11/20/2014	8:59:00	11.551	5.421	1.611	0.357	1.37	
11/20/2014	9:00:00	11.556	5.423	1.616	0.336	1.384	
11/20/2014	9:01:00	11.554	5.43	1.741	0.331	1.509	
11/20/2014	9:02:00	11.556	5.43	1.942	0.319	1.674	
11/20/2014	9:03:00	11.559	5.429	2.084	0.322	1.788	
11/20/2014	9:04:00	13.254	4.453	2.118	0.308	1.839	

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Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	9:05:00	11.643	5.401	2.009	0.261	1.866	
11/20/2014	9:06:00	11.608	5.404	2.24	0.3	1.86	
11/20/2014	9:07:00	11.605	5.409	2.089	0.295	1.76	
11/20/2014	9:08:00	11.608	5.406	1.917	0.298	1.583	
11/20/2014	9:09:00	11.602	5.413	1.665	0.3	1.416	
11/20/2014	9:10:00	11.606	5.404	1.457	0.293	1.218	
11/20/2014	9:11:00	11.603	5.408	1.365	0.293	1.133	
11/20/2014	9:12:00	11.608	5.416	1.352	0.291	1.154	
11/20/2014	9:13:00	11.614	5.409	1.537	0.288	1.293	
11/20/2014	9:14:00	13.086	4.57	1.675	0.26	1.429	
11/20/2014	9:15:00	11.603	5.421	1.653	0.28	1.582	
11/20/2014	9:16:00	11.601	5.417	1.976	0.307	1.695	
11/20/2014	9:17:00	11.596	5.423	2.068	0.313	1.784	
11/20/2014	9:18:00	11.595	5.426	2.149	0.303	1.817	
11/20/2014	9:19:00	11.604	5.42	2.171	0.305	1.885	
11/20/2014	9:20:00	11.601	5.421	2.226	0.304	1.898	
11/20/2014	9:21:00	11.599	5.427	2.147	0.309	1.82	
11/20/2014	9:22:00	11.6	5.423	2.036	0.307	1.685	
11/20/2014	9:23:00	11.65	5.298	1.78	0.312	1.517	
11/20/2014	9:24:00	11.558	5.088	1.631	0.15	1.061	
11/20/2014	9:25:00	10.958	5.306	1.631	0.15	1.061	
11/20/2014	9:26:00	10.521	5.202	0.807	0.079	0.69	
11/20/2014	9:27:00	9.96	5.104	0.807	0.079	0.69	Sys O2/CO2
11/20/2014	9:28:00	1.297	0.559	2.482	0.003	2.49	
11/20/2014	9:29:00	-0.042	0.12	2.46	-0.002	2.485	Sys NOx
11/20/2014	9:30:00	-0.058	0.12	2.163	2.387	1.362	
11/20/2014	9:31:00	-0.068	0.123	0.007	4.731	-0.007	
11/20/2014	9:32:00	-0.075	0.12	-0.005	4.734	-0.011	Sys CO
11/20/2014	9:33:00	18.768	0.223	1.368	2.163	0.063	
11/20/2014	9:34:00	21.379	0.317	3.153	0.02	0.161	Sys NO2
11/20/2014	9:35:00	12.904	5.099	2.706	0.154	0.871	
11/20/2014	9:36:00	11.556	5.427	1.987	0.307	1.722	
11/20/2014	9:37:00	11.54	5.431	1.805	0.302	1.535	
11/20/2014	9:38:00	11.546	5.437	1.55	0.309	1.309	
11/20/2014	9:39:00	11.546	5.439	1.4	0.305	1.186	
11/20/2014	9:40:00	11.546	5.437	1.346	0.315	1.147	
11/20/2014	9:41:00	11.542	5.441	1.452	0.305	1.217	
11/20/2014	9:42:00	11.543	5.444	1.673	0.307	1.441	
11/20/2014	9:43:00	11.544	5.439	1.823	0.309	1.578	
11/20/2014	9:44:00	13.395	4.381	1.916	0.284	1.695	
11/20/2014	9:45:00	11.612	5.413	1.871	0.251	1.766	
11/20/2014	9:46:00	11.586	5.419	2.12	0.282	1.838	
11/20/2014	9:47:00	11.588	5.427	2.153	0.288	1.833	
11/20/2014	9:48:00	11.583	5.426	2.185	0.285	1.838	
11/20/2014	9:49:00	11.576	5.436	2.134	0.291	1.808	
11/20/2014	9:50:00	11.575	5.444	1.995	0.286	1.721	
11/20/2014	9:51:00	11.58	5.442	1.834	0.282	1.536	
11/20/2014	9:52:00	11.581	5.445	1.625	0.284	1.371	
11/20/2014	9:53:00	11.574	5.443	1.499	0.279	1.259	
11/20/2014	9:54:00	13.292	4.456	1.399	0.257	1.222	

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	9:55:00	11.544	5.463	1.387	0.27	1.308	
11/20/2014	9:56:00	11.538	5.461	1.736	0.302	1.536	
11/20/2014	9:57:00	11.528	5.467	1.897	0.307	1.635	
11/20/2014	9:58:00	11.533	5.465	1.979	0.311	1.708	
11/20/2014	9:59:00	11.532	5.469	2.009	0.307	1.753	
11/20/2014	10:00:00	11.543	5.463	2.09	0.301	1.792	
11/20/2014	10:01:00	11.541	5.467	2.114	0.303	1.819	
11/20/2014	10:02:00	11.549	5.472	2.182	0.311	1.854	
11/20/2014	10:03:00	11.547	5.472	2.127	0.312	1.868	
11/20/2014	10:04:00	13.453	4.376	2.035	0.291	1.766	
11/20/2014	10:05:00	11.597	5.451	1.757	0.223	1.618	
11/20/2014	10:06:00	11.564	5.455	1.684	0.261	1.413	
11/20/2014	10:07:00	11.569	5.45	1.498	0.255	1.254	
11/20/2014	10:08:00	11.574	5.448	1.418	0.257	1.186	
11/20/2014	10:09:00	11.573	5.455	1.437	0.255	1.229	
11/20/2014	10:10:00	11.577	5.459	1.64	0.258	1.417	
11/20/2014	10:11:00	11.577	5.455	1.827	0.259	1.53	
11/20/2014	10:12:00	11.585	5.449	1.898	0.258	1.611	
11/20/2014	10:13:00	11.59	5.453	1.982	0.255	1.703	
11/20/2014	10:14:00	11.594	4.981	2.018	0.199	1.725	
11/20/2014	10:15:00	9.88	5.107	0.916	-0.247	0.36	
11/20/2014	10:16:00	9.871	5.116	0.002	-0.275	-0.002	Sys O2/CO2
11/20/2014	10:17:00	0.895	0.282	1.118	-0.158	1.38	
11/20/2014	10:18:00	-0.043	0.165	2.465	-0.013	2.483	
11/20/2014	10:19:00	-0.059	0.161	2.475	-0.006	2.486	Sys NOx
11/20/2014	10:20:00	-0.069	0.157	2.168	2.631	1.36	
11/20/2014	10:21:00	-0.078	0.161	-0.006	4.725	-0.008	Sys CO
11/20/2014	10:22:00	18.858	0.309	1.309	2.129	0.036	
11/20/2014	10:23:00	19.873	1.092	3.171	0.009	0.09	Sys NO2
11/20/2014	10:24:00	9.949	5.109	3.241	2.97	0.067	
11/20/2014	10:25:00	9.879	5.087	3.359	4.717	0.024	Direct NO2
11/20/2014	10:26:00	9.876	5.089	3.113	4.717	1.137	
11/20/2014	10:27:00	9.876	5.097	2.469	4.712	2.496	Direct Mid
11/20/2014	10:28:00	1.75	0.951	2.175	2.813	1.37	
11/20/2014	10:29:00	-0.062	0.121	-0.004	-0.032	-0.004	Direct Zero
11/20/2014	10:30:00	9.142	4.324	0.237	0.023	0.755	
11/20/2014	10:31:00	11.511	5.454	1.86	0.225	1.55	
11/20/2014	10:32:00	11.513	5.456	1.655	0.243	1.397	
11/20/2014	10:33:00	11.523	5.46	1.495	0.245	1.265	
11/20/2014	10:34:00	11.521	5.464	1.49	0.251	1.227	
11/20/2014	10:35:00	11.525	5.458	1.522	0.249	1.273	
11/20/2014	10:36:00	11.528	5.47	1.702	0.249	1.48	
11/20/2014	10:37:00	11.534	5.459	1.88	0.252	1.587	
11/20/2014	10:38:00	11.543	5.465	1.948	0.255	1.662	
11/20/2014	10:39:00	11.55	5.465	2.022	0.252	1.707	
11/20/2014	10:40:00	11.748	5.339	2.062	0.249	1.731	
11/20/2014	10:41:00	11.565	5.464	2.037	0.239	1.789	
11/20/2014	10:42:00	11.553	5.47	2.098	0.25	1.733	
11/20/2014	10:43:00	11.554	5.471	2.019	0.249	1.699	
11/20/2014	10:44:00	11.567	5.465	1.89	0.251	1.582	

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	10:45:00	11.568	5.468	1.734	0.243	1.46	
11/20/2014	10:46:00	11.576	5.46	1.613	0.24	1.348	
11/20/2014	10:47:00	14.693	3.667	1.464	0.215	1.136	
11/20/2014	10:48:00	11.636	5.445	1.515	0.205	0.647	
11/20/2014	10:49:00	11.583	5.453	1.753	0.261	1.514	
11/20/2014	10:50:00	11.584	5.463	1.884	0.261	1.592	
11/20/2014	10:51:00	11.579	5.467	1.957	0.259	1.694	
11/20/2014	10:52:00	11.586	5.464	2.041	0.264	1.75	
11/20/2014	10:53:00	11.589	5.458	2.1	0.26	1.794	
11/20/2014	10:54:00	11.585	5.46	2.14	0.258	1.805	
11/20/2014	10:55:00	11.59	5.463	2.134	0.265	1.823	
11/20/2014	10:56:00	11.957	5.067	2.102	0.252	1.754	
11/20/2014	10:57:00	9.888	5.123	1.106	-0.181	0.356	
11/20/2014	10:58:00	9.866	5.127	-0.011	-0.27	-0.01	Sys O2/CO2
11/20/2014	10:59:00	3.253	1.522	1.035	-0.219	0.29	
11/20/2014	11:00:00	-0.042	0.196	2.416	-0.021	2.486	
11/20/2014	11:01:00	-0.062	0.18	2.46	-0.007	2.489	Sys NOx
11/20/2014	11:02:00	-0.072	0.18	2.157	2.141	1.352	
11/20/2014	11:03:00	-0.079	0.192	-0.013	4.727	-0.004	Sys CO
11/20/2014	11:04:00	10.544	5.344	1.64	2.134	0.002	Turned off NO Channel
11/20/2014	11:05:00	11.521	5.461	1.983	0.27	0.002	
11/20/2014	11:06:00	11.533	5.456	2.045	0.265	0.002	
11/20/2014	11:07:00	11.537	5.454	2.089	0.26	0.002	
11/20/2014	11:08:00	11.544	5.458	2.103	0.261	0.002	
11/20/2014	11:09:00	11.551	5.46	2.092	0.271	0.002	
11/20/2014	11:10:00	11.555	5.462	2.01	0.271	0.002	
11/20/2014	11:11:00	11.555	5.457	1.904	0.264	0.002	
11/20/2014	11:12:00	11.554	5.459	1.751	0.264	0.002	
11/20/2014	11:13:00	11.555	5.464	1.615	0.265	0.002	
11/20/2014	11:14:00	11.553	5.475	1.577	0.251	0.002	
11/20/2014	11:15:00	11.552	5.468	1.646	0.254	0.002	
11/20/2014	11:16:00	11.553	5.472	1.808	0.249	0.002	
11/20/2014	11:17:00	11.559	5.474	1.944	0.243	0.002	
11/20/2014	11:18:00	11.565	5.466	2.039	0.251	0.002	
11/20/2014	11:19:00	11.563	5.475	2.078	0.254	0.002	
11/20/2014	11:20:00	14.127	4.016	1.53	0.19	0.002	
11/20/2014	11:21:00	11.592	5.459	2.127	0.257	0.002	
11/20/2014	11:22:00	11.585	5.46	2.08	0.267	0.002	
11/20/2014	11:23:00	11.585	5.467	1.901	0.263	0.002	
11/20/2014	11:24:00	11.583	5.462	1.716	0.27	0.002	
11/20/2014	11:25:00	11.587	5.458	1.568	0.271	0.002	
11/20/2014	11:26:00	11.586	5.464	1.482	0.266	0.002	
11/20/2014	11:27:00	11.586	5.46	1.501	0.27	0.002	
11/20/2014	11:28:00	11.584	5.467	1.682	0.265	0.002	
11/20/2014	11:29:00	9.69	4.883	0.45	0.3	0.002	
11/20/2014	11:30:00	9.869	5.126	-0.01	-0.263	0.002	Sys O2/CO2
11/20/2014	11:31:00	0.917	0.357	2.158	-0.164	0.002	
11/20/2014	11:32:00	-0.051	0.185	2.451	-0.011	0.002	Sys NOx
11/20/2014	11:33:00	-0.067	0.185	0.567	2.173	0.002	
11/20/2014	11:34:00	-0.078	0.18	-0.015	4.727	0.002	Sys CO

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Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	11:35:00	7.744	4.085	1.228	3.193	0.002	
11/20/2014	11:36:00	11.521	5.45	1.747	0.296	0.002	
11/20/2014	11:37:00	11.54	5.459	1.565	0.265	0.002	
11/20/2014	11:38:00	11.541	5.46	1.476	0.266	0.002	
11/20/2014	11:39:00	11.549	5.453	1.489	0.266	0.002	
11/20/2014	11:40:00	11.553	5.462	1.666	0.267	0.002	
11/20/2014	11:41:00	11.555	5.464	1.825	0.262	0.002	
11/20/2014	11:42:00	11.557	5.464	1.936	0.264	0.002	
11/20/2014	11:43:00	11.557	5.461	2.003	0.261	0.002	
11/20/2014	11:44:00	11.547	5.46	2.048	0.252	0.002	
11/20/2014	11:45:00	11.55	5.47	2.104	0.245	0.002	
11/20/2014	11:46:00	11.553	5.459	2.089	0.248	0.002	
11/20/2014	11:47:00	11.552	5.467	2.048	0.249	0.002	
11/20/2014	11:48:00	11.556	5.471	1.972	0.252	0.002	
11/20/2014	11:49:00	11.552	5.472	1.854	0.248	0.002	
11/20/2014	11:50:00	13.965	4.089	1.251	0.222	0.002	
11/20/2014	11:51:00	11.598	5.446	1.582	0.227	0.002	
11/20/2014	11:52:00	11.58	5.452	1.565	0.268	0.002	
11/20/2014	11:53:00	11.575	5.45	1.659	0.271	0.002	
11/20/2014	11:54:00	11.572	5.451	1.851	0.27	0.002	
11/20/2014	11:55:00	11.578	5.45	1.986	0.273	0.002	
11/20/2014	11:56:00	11.574	5.454	2.068	0.267	0.002	
11/20/2014	11:57:00	11.571	5.454	2.099	0.27	0.002	
11/20/2014	11:58:00	11.573	5.447	2.152	0.275	0.002	
11/20/2014	11:59:00	10.192	4.977	1.24	0.387	0.002	
11/20/2014	12:00:00	9.857	5.107	-0.004	-0.165	0.002	Sys O2/CO2
11/20/2014	12:01:00	2.822	1.303	1.69	-0.208	0.002	
11/20/2014	12:02:00	-0.048	0.183	2.452	-0.011	0.002	Sys NOx
11/20/2014	12:03:00	-0.067	0.18	0.314	2.667	0.002	Sys CO
11/20/2014	12:04:00	-0.079	0.177	-0.013	4.729	0.002	Sys CO
11/20/2014	12:05:00	9.866	5.036	1.209	2.398	0.002	
11/20/2014	12:06:00	11.523	5.446	1.614	0.272	0.002	
11/20/2014	12:07:00	11.532	5.448	1.781	0.27	0.002	
11/20/2014	12:08:00	11.535	5.456	1.9	0.265	0.002	
11/20/2014	12:09:00	11.539	5.453	1.971	0.275	0.002	
11/20/2014	12:10:00	11.541	5.459	2.035	0.276	0.002	
11/20/2014	12:11:00	11.547	5.454	2.07	0.269	0.002	
11/20/2014	12:12:00	11.55	5.458	2.115	0.269	0.002	
11/20/2014	12:13:00	11.55	5.456	2.149	0.267	0.002	
11/20/2014	12:14:00	11.55	5.458	2.122	0.267	0.002	
11/20/2014	12:15:00	11.552	5.458	1.965	0.267	0.002	
11/20/2014	12:16:00	11.557	5.458	1.814	0.267	0.002	
11/20/2014	12:17:00	11.559	5.46	1.629	0.266	0.002	
11/20/2014	12:18:00	11.557	5.462	1.501	0.271	0.002	
11/20/2014	12:19:00	11.565	5.455	1.44	0.267	0.002	
11/20/2014	12:20:00	14.35	3.866	1.036	0.248	0.002	
11/20/2014	12:21:00	11.598	5.455	1.703	0.287	0.002	
11/20/2014	12:22:00	11.566	5.464	1.863	0.3	0.002	
11/20/2014	12:23:00	11.56	5.464	1.941	0.271	0.002	
11/20/2014	12:24:00	11.567	5.465	2.023	0.271	0.002	

2014 PGE Clusa Unit 2 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	12:25:00	11.56	5.469	2.056	0.268	0.002	
11/20/2014	12:26:00	11.564	5.465	2.099	0.275	0.002	
11/20/2014	12:27:00	11.566	5.47	2.104	0.273	0.002	
11/20/2014	12:28:00	11.571	5.472	2.056	0.268	0.002	
11/20/2014	12:29:00	11.572	5.467	1.968	0.273	0.002	
11/20/2014	12:30:00	11.573	5.462	1.83	0.273	0.002	
11/20/2014	12:31:00	11.572	5.471	1.641	0.269	0.002	
11/20/2014	12:32:00	11.571	5.467	1.534	0.265	0.002	
11/20/2014	12:33:00	11.573	5.469	1.524	0.272	0.002	
11/20/2014	12:34:00	11.575	5.471	1.638	0.269	0.002	
11/20/2014	12:35:00	11.577	5.465	1.837	0.266	0.002	
11/20/2014	12:36:00	11.577	5.464	1.948	0.269	0.002	
11/20/2014	12:37:00	11.575	5.465	2.029	0.264	0.002	
11/20/2014	12:38:00	11.572	5.467	2.06	0.271	0.002	
11/20/2014	12:39:00	11.576	5.467	2.096	0.271	0.002	
11/20/2014	12:40:00	11.105	5.151	2.037	0.277	0.002	
11/20/2014	12:41:00	9.678	5.127	0.024	0.155	0.002	
11/20/2014	12:42:00	9.856	5.134	-0.019	-0.275	0.002	Sys O2/CO2
11/20/2014	12:43:00	2.915	1.367	1.65	-0.215	0.002	
11/20/2014	12:44:00	-0.046	0.206	2.448	-0.016	0.002	Sys NOx
11/20/2014	12:45:00	-0.064	0.199	1.442	0.64	0.002	
11/20/2014	12:46:00	-0.076	0.194	-0.009	4.561	0.002	
11/20/2014	12:47:00	-0.083	0.196	-0.011	4.732	0.002	Sys CO
11/20/2014	12:48:00	10.168	5.199	1.592	2.272	0.002	
11/20/2014	12:49:00	11.501	5.465	1.942	0.271	0.002	
11/20/2014	12:50:00	11.51	5.473	2.006	0.26	0.002	
11/20/2014	12:51:00	11.523	5.469	2.073	0.263	0.002	
11/20/2014	12:52:00	11.527	5.473	2.126	0.267	0.002	
11/20/2014	12:53:00	11.536	5.468	2.149	0.269	0.002	
11/20/2014	12:54:00	11.54	5.465	2.127	0.279	0.002	
11/20/2014	12:55:00	11.544	5.471	2.058	0.278	0.002	
11/20/2014	12:56:00	11.551	5.461	1.939	0.264	0.002	
11/20/2014	12:57:00	11.538	5.474	1.765	0.251	0.002	
11/20/2014	12:58:00	11.543	5.474	1.59	0.241	0.002	
11/20/2014	12:59:00	11.546	5.473	1.486	0.247	0.002	
11/20/2014	13:00:00	11.541	5.473	1.494	0.249	0.002	
11/20/2014	13:01:00	11.552	5.469	1.673	0.242	0.002	
11/20/2014	13:02:00	11.545	5.473	1.832	0.243	0.002	
11/20/2014	13:03:00	11.551	5.465	1.922	0.243	0.002	
11/20/2014	13:04:00	14.71	3.665	1.304	0.207	0.002	
11/20/2014	13:05:00	11.612	5.449	2.091	0.21	0.002	
11/20/2014	13:06:00	11.576	5.46	2.083	0.265	0.002	
11/20/2014	13:07:00	11.572	5.453	2.124	0.259	0.002	
11/20/2014	13:08:00	11.566	5.455	2.11	0.258	0.002	
11/20/2014	13:09:00	11.563	5.457	2.038	0.263	0.002	
11/20/2014	13:10:00	11.572	5.452	1.846	0.263	0.002	
11/20/2014	13:11:00	11.559	5.459	1.67	0.271	0.002	
11/20/2014	13:12:00	11.565	5.463	1.49	0.27	0.002	
11/20/2014	13:13:00	11.566	5.455	1.413	0.264	0.002	
11/20/2014	13:14:00	11.516	5.349	1.456	0.264	0.002	

2014 PGE Clusa Unit 2 RATA-Comp
Data Logger

Date	Time	O2 %	CO2 %	NOx PPM	CO PPM	NO PPM	Comment
11/20/2014	13:15:00	9.381	4.925	0.108	0.214	0.002	
11/20/2014	13:16:00	9.857	5.114	-0.015	-0.276	0.002	
11/20/2014	13:17:00	9.855	5.121	-0.02	-0.281	0.002	Sys O2/CO2
11/20/2014	13:18:00	0.797	0.31	2.178	-0.161	0.002	
11/20/2014	13:19:00	-0.056	0.192	2.449	-0.009	0.002	Sys NOx
11/20/2014	13:20:00	-0.074	0.183	0.291	2.674	0.002	
11/20/2014	13:21:00	-0.082	0.179	-0.025	4.726	0.002	Sys CO
11/20/2014	13:22:00	1.176	1.073	0.164	4.694	0.002	
11/20/2014	13:23:00	11.433	5.443	2.08	1.339	0.002	
11/20/2014	13:24:00	11.509	5.457	1.973	0.265	0.002	
11/20/2014	13:25:00	11.521	5.459	1.795	0.263	0.002	
11/20/2014	13:26:00	11.525	5.458	1.657	0.262	0.002	
11/20/2014	13:27:00	11.53	5.45	1.534	0.262	0.002	
11/20/2014	13:28:00	11.53	5.454	1.478	0.265	0.002	
11/20/2014	13:29:00	11.536	5.459	1.567	0.265	0.002	
11/20/2014	13:30:00	11.541	5.461	1.776	0.267	0.002	
11/20/2014	13:31:00	11.524	5.469	1.901	0.261	0.002	
11/20/2014	13:32:00	11.525	5.465	1.965	0.241	0.002	
11/20/2014	13:33:00	11.529	5.47	2.057	0.249	0.002	
11/20/2014	13:34:00	11.527	5.471	2.088	0.247	0.002	
11/20/2014	13:35:00	11.526	5.47	2.137	0.247	0.002	
11/20/2014	13:36:00	11.529	5.465	2.154	0.243	0.002	
11/20/2014	13:37:00	11.527	5.465	2.091	0.244	0.002	
11/20/2014	13:38:00	11.53	5.468	1.972	0.247	0.002	
11/20/2014	13:39:00	14.657	3.367	1.208	0.227	0.002	
11/20/2014	13:40:00	12.646	5.169	1.34	0.175	0.002	
11/20/2014	13:41:00	11.546	5.461	1.439	0.258	0.002	
11/20/2014	13:42:00	11.545	5.464	1.405	0.258	0.002	
11/20/2014	13:43:00	11.545	5.457	1.532	0.266	0.002	
11/20/2014	13:44:00	11.538	5.469	1.755	0.262	0.002	
11/20/2014	13:45:00	11.483	5.339	1.847	0.263	0.002	
11/20/2014	13:46:00	9.36	4.936	0.119	0.211	0.002	
11/20/2014	13:47:00	9.837	5.117	-0.014	-0.277	0.002	Sys O2/CO2
11/20/2014	13:48:00	1.23	0.523	2.072	-0.178	0.002	
11/20/2014	13:49:00	-0.057	0.199	2.45	-0.011	0.002	Sys NOx
11/20/2014	13:50:00	-0.074	0.191	0.513	2.272	0.002	
11/20/2014	13:51:00	-0.083	0.198	-0.01	4.714	0.002	Sys CO
11/20/2014	13:52:00	8.62	4.595	1.818	4.694	0.003	
11/20/2014	13:53:00	9.825	5.098	2.459	4.715	0.002	Direct Mid
11/20/2014	13:54:00	2.01	1.051	0.706	2.948	0.002	
11/20/2014	13:55:00	-0.082	0.155	-0.019	-0.026	0.002	Direct Zero
11/20/2014	13:56:00	-0.085	0.155	0.001	-0.036	0.002	
11/20/2014	13:57:00	-0.071	0.16	0.016	-0.035	0.002	
11/20/2014	13:58:00	-0.054	0.164	0.023	-0.032	0.002	
11/20/2014	13:59:00	-0.034	0.171	0.022	-0.032	0.002	
11/20/2014	14:00:00	-0.013	0.174	0.02	-0.031	0.002	

APPENDIX H CHAIN OF CUSTODY

AAC# 141822

CT1 Aldehydes
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E Colusa

TEST DATE(S): 11/18/2014

LOCATION: GT Unit 1

SAMPLER(S): RMo

SAMPLE LOCATION: CT1 Stack

PROJECT MANAGER: John Peterson

TEST METHOD(S): CARB 430

DATE DUE: 11/23/2014

OUTSIDE LAB REQUIRED?: AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/18/2014		1-Form-1	Vial 1 75896	1	RMo	DNPH
11/18/2014		1-Form-1	Vial 2 75897	1	RMo	DNPH
11/18/2014		2-Form-1	Vial 1 75898	1	RMo	DNPH
11/18/2014		2-Form-1	Vial 2 75899	1	RMo	DNPH
11/18/2014		3-Form-1	Vial 1 75900	1	RMo	DNPH
11/18/2014		3-Form-1	Vial 2 75901	1	RMo	DNPH
11/18/2014		1-Blank-1	Vial 75902	1	RMo	DNPH
11/18/2014		2-Blank-1	Vial 75903	1	RMo	DNPH
11/18/2014		3-Blank-1	Vial 75904	1	RMo	DNPH

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	11/20/14 1420	[signature] FedEx	11/21/14 1000
		13.5°C	

ANALYSIS REQUIRED:

Note: Samples must be analyzed by 11/23/2014

Delta Air Quality Services, Incorporated

11/20/2014
1:42 PM

AAC# 141822

Aldehydes
C of C HxCy

CHAIN OF CUSTODY

CLIENT: PG&E Colusa

TEST DATE(S): 11/20/2014

LOCATION: GT Unit 2

SAMPLER(S): RD

SAMPLE LOCATION: CT2 Stack

PROJECT MANAGER: John Peterson

TEST METHOD(S): CARB 430

DATE DUE: 11/25/2014

OUTSIDE LAB REQUIRED?: AAC

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/20/2014		1-Form-2	Vial 1 75905	1	RD	DNPH
11/20/2014		1-Form-2	Vial 2 75906	1	RD	DNPH
11/20/2014		2-Form-2	Vial 1 75907	1	RD	DNPH
11/20/2014		2-Form-2	Vial 2 75908	1	RD	DNPH
11/20/2014		3-Form-2	Vial 1 75909	1	RD	DNPH
11/20/2014		3-Form-2	Vial 2 75910	1	RD	DNPH
11/20/2014		1-Blank-2	Vial 75911	1	RD	DNPH
11/20/2014		2-Blank-2	Vial 75912	1	RD	DNPH
11/20/2014		3-Blank-2	Vial 75913	1	RD	DNPH

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[signature]	11/20/14 1420	[signature] FedEx	11/21/14 1000
		13.5°C	

ANALYSIS REQUIRED:

Note: Samples must be analyzed by 11/25/2014

Delta Air Quality Services, Incorporated

11/20/2014
1:40 PM

2014 PGE Clusa Unit 2 RATA-Comp
C of C NH3

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): ~~4/11/2012~~ 11/20/14

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 2

PROJECT MANAGER: John Peterson

TEST METHOD(S): BAAQMD ST-1B

DATE DUE: ~~4/21/2012~~ 11/25/14

OUTSIDE LAB REQUIRED?: No

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/20/2014	8:33	1-NH3-Max-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/20/2014	9:23	2-NH3-Max-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/20/2014	10:13	3-NH3-Max-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	[illegible]	11/25/14 110[illegible]
[illegible]	11/26/14 1130	[illegible]	12/1/14 0630

ANALYSIS REQUIRED: BAAQMD ST-1B for SDAPCD

Delta Air Quality Services, Incorporated

11/23/2014
12:36 PM

2014 PGE Clusa Unit 2 Comp
C of C NH3

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/19/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 2

PROJECT MANAGER: John Peterson

TEST METHOD(S): BAAQMD ST-1B

DATE DUE: 11/29/2014

OUTSIDE LAB REQUIRED?: No

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/19/2014	8:32	1-NH3-Min-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	9:20	2-NH3-Min-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	10:07	3-NH3-Min-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	11:03	1-NH3-Mid-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	11:50	2-NH3-Mid-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	12:36	3-NH3-Mid-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	13:33	1-NH3-Base-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	14:24	2-NH3-Base-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	15:14	3-NH3-Base-2	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/19/2014	14:00	RB-HCl	0.1N HCl	1	JP	

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	[illegible]	11/25/14 110[illegible]
[illegible]	11/26/14 1130	[illegible]	12/1/14 0630

ANALYSIS REQUIRED: BAAQMD ST-1B

Delta Air Quality Services, Incorporated

11/23/2014
12:39 PM

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/17/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 1

PROJECT MANAGER: John Peterson

TEST METHOD(S): BAAQMD ST-1B

DATE DUE: 11/27/2014

OUTSIDE LAB REQUIRED?: No

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/17/2014	12:20	1-NH3-Min-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	13:18	2-NH3-Min-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	14:07	3-NH3-Min-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	15:03	1-NH3-Mid-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	15:53	2-NH3-Mid-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	16:40	3-NH3-Mid-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	17:38	1-NH3-Base-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	18:26	2-NH3-Base-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/17/2014	19:13	3-NH3-Base-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	[illegible]	11/25/14 1102
[illegible]	11/26/14 1132		

ANALYSIS REQUIRED: BAAQMD ST-1B

Delta Air Quality Services, International

CHAIN OF CUSTODY

CLIENT: Pacific Gas and Electric

TEST DATE(S): 11/18/2014

LOCATION: Colusa

SAMPLER(S): RMo / RD

SAMPLE LOCATION: Stack GT Unit 1

PROJECT MANAGER: John Peterson

TEST METHOD(S): BAAQMD ST-1B

DATE DUE: 11/28/2014

OUTSIDE LAB REQUIRED?: No

COMPLIANCE TEST? Yes

DATE	TIME	TEST #	SAMPLE DESCRIPTION	CONTAINERS	SAMPLER	COMMENTS
11/18/2014	8:53	1-NH3-Max-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/18/2014	9:43	2-NH3-Max-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl
11/18/2014	10:33	3-NH3-Max-1	Probe, Line, Impingers	1	RMo / RD	0.1N HCl

RELEASED BY	DATE/TIME	RECEIVED BY	DATE/TIME
[illegible]	11/25/14 1102	[illegible]	11/25/14 [illegible]
[illegible]	11/26/14 1150		

ANALYSIS REQUIRED: BAAQMD ST-1B

Delta Air Quality Services, Incorporated

11/23/2014
12:42 PM

APPENDIX I AETB EPA PART 75 INFORMATION

Delta
Air Quality Services, Incorporated

March 26, 2012

To Whom It May Concern,

EPA promulgated minimum competency requirements for firms performing Part 75 emission test programs (Protocol Gas Verification Program and Minimum Competency Requirements for Air Emission Testing, FR 76, No. 59, 17288-17325) on March 28, 2011. The rule requires that source testing firms, "Air Emission Testing Bodies" (AETBs), conform to ASTM D 7036-04, Standard Practice of Competence of Air Emission Testing Bodies beginning March 27, 2012.

The rule requires that the owner or operator of any affected source obtain a certification from the AETB that the AETB is operating in conformance with ASTM D7036–04 as of the time of testing. This letter is written to convey Delta Air Quality Services, Inc.'s certification of conformance with the above requirements.

By their signatures below, the Management of Delta Air Quality Services Inc. attest that all relative accuracy testing performed pursuant to 75.74(c)(2)(ii), Section 6.5 of Appendix A or Section 2.3.1 of Appendix B of Part 75, and Stack Testing under 75.19 and Appendix E of Part 75 will be conducted in conformance to ASTM D7036-04 and be overseen and supervised on site by at least one Qualified Individual, as defined in 72.2 with respect to the methods employed in the test project. Performance Data, as defined in ASTM D7036-04 Section 3.1.9, is available to our clients upon request.

Name, Title	Program	Signature	Date
Bob Finken, President	Technical Manager, Technical Program Manager – Research and Special Programs		3/27/12
Arlene Bell, Vice President	Quality Program, Laboratory Program, Technical Program Manager – Air Toxics Programs		3/26/12
Matt McCune, Vice President	Technical Program Manager - Utility and Power Production Technical Program		3/26/12
Jim Ritchey, Vice President	Technical Program Manager - Petrochemical Services Technical Program		3/26/12
Roddy Rauls, Manager	Office and Facilities Program		3/26/12
Shannon Scrugham, Manager	Equipment, Shop, and Vehicle Program		3/26/12
Joyce Stockwell, Manager	Human Resources, Payroll, and Accounting Program	Joyce Stockwell	3/26/12

1845 N. Case Street • Orange, California 92865-4234 • www.deltaaqs.com
Phone (714) 279-6777 • Fax (714) 279-6781

Date	11/18/2014
Client	Pacific Gas and Electric
Location	Colusa
Unit	GT Unit 1

QI and AETB Info.	
QI Last Name	Peterson
QI First Name	John
QI Middle Initial	S
AETB Name	Delta Air Quality Services, Inc.
AETB Phone Number	714-448-6150
AETB Email	contact@deltaaqs.com
Exam Date	2/13/2012
Exam Provider Name	Source Evaluation Society
Exam Provider Email	qstiprogram@gmail.com
SES QSTI No.	

Reference Method PGVP Info. Tuesday, November 18, 2014							
Gas Level Code	Low	Mid	High		Low	Mid	High
Gas Type Code	NOx	NOx	NOx		O2	O2	O2
Vendor ID	0	F22014	F22014		0	F22014	F22012
Cylinder ID	SA4092	CC112240	CC120115		SA4092	SA18525	CC109593
Expiration Date	N/A	07/21/17	05/27/17		N/A	05/28/22	11/08/15
Gas Concentration	0.00	2.42	4.76		0.00	10.00	18.96

Date	11/20/2014
Client	Pacific Gas and Electric
Location	Colusa
Unit	GT Unit 2

QI and AETB Info.	
QI Last Name	Peterson
QI First Name	John
QI Middle Initial	S
AETB Name	Delta Air Quality Services, Inc.
AETB Phone Number	714-448-6150
AETB Email	contact@deltaaqs.com
Exam Date	2/13/2012
Exam Provider Name	Source Evaluation Society
Exam Provider Email	qstiprogram@gmail.com
SES QSTI No.	

Reference Method PGVP Info. Thursday, November 20, 2014							
Gas Level Code	Low	Mid	High		Low	Mid	High
Gas Type Code	NOx	NOx	NOx		O2	O2	O2
Vendor ID	0	F22014	F22014		0	F22014	F22012
Cylinder ID	SA4092	CC112240	CC120115		SA4092	SA18525	CC109593
Expiration Date	N/A	07/21/17	05/27/17		N/A	05/28/22	11/08/15
Gas Concentration	0.00	2.42	4.76		0.00	10.00	18.96

END OF DOCUMENT