T E C H N I C A L R E P O R T

KERN RIVER COGENERATION COMPANY (KRCC) (82-AFC-2)

PETITION FOR MINOR AIR QUALITYAMENDMENT

DECEMBER 2003

Prepared by:

URS

500 12th Street, Suite 200

Oakland, California 94607-4014

Prepared for:

Kern River Cogeneration Company (KRCC)

Bakersfield, California

26814395

Kern River Cogeneration Company Box 80478, Bakersfield, CA 93380 (661) 392-2630

Neil E. Burgess, Executive Director

December 19, 2003

KR-8586

Ms. Nancy Tronaas
Compliance Project Manager
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814-5512

Re: Kern River Cogeneration Company (KRCC) (82-AFC-2)
Petition For Minor Air Quality Amendment

Dear Ms. Tronaas:

This petition is being submitted to allow two (2) of the four cogeneration units at KRCC, Unit 3 and Unit 4, to operate in either simple cycle mode, without the cogeneration of steam, or in the current cogeneration configuration. The addition of simple cycle capability is needed because the steam demand in the adjacent oilfield is gradually declining and, in order to respond to current electricity market conditions for the power, one of the two units must be able to operate as a dispatchable simple cycle unit no later than April 1, 2004, with the second unit able to operate as a dispatchable simple cycle unit no later than November 1, 2004.

The petition requires the elimination of two conditions of certification that requires KRCC to operate as a cogeneration facility, AQ-13 and 17-2. KRCC will not be proposing any change in previously permitted maximum air emissions. As a result, no new conditions of certification are required. This petition is consistent with recent requests submitted to both the San Joaquin Valley Air Pollution Control District (SJVAPCD) and the United States Environmental Protection Agency (EPA). Appendix A includes the complete copy of the SJVAPCD application to modify the current Permits to Operate and Appendix B includes a complete copy of the EPA application to modify the Prevention of Significant Deterioration (PSD) permit. Final action by both agencies is expected in late January. The CEC will be provided with copies of the final approvals as soon as they are available.

We are hopeful that this minor amendment can be reviewed and processed as soon as possible. Please contact Mervyn Soares at (661) 392-2643 or David Stein at (510) 874-3143 if you have any questions regarding these materials.

Neil Burgess/yh

DLB:yh

Attachment

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Table of Contents

Section 1.0 Overview ……...……...1

Section 2.0 Information Required by Section 1769……..2

Section 3.0 Schedule ……...8

Section 4.0 Summary ……...……8

Appendices

A Application To SJVAPCD To Modify Permits To Operate
B Application To EPA To Modify PSD Permit

1.0 OVERVIEW

Kern River Cogeneration Company (KRCC) received original approval (82-AFC-2) in September 1983 from the California Energy Commission (CEC) for a 300 megawatt (MW) cogeneration plant in Kern County, California. The facility consists of four (4) 75 MW (nominal) natural-gas fired General Electric Frame 7EA combustion turbines equipped with dry Low NOx (DLN) combustors, four (4) unfired heat recovery steam generators (HRSGs), each capable of generating up to 450,000 pounds per hour (lb/hr) of steam for delivery to the adjacent oilfield operator for use in enhanced oil recovery and ancillary equipment. KRCC is owned jointly by ChevronTexaco and Edison Mission Energy.

This petition is being submitted to allow two (2) of the four cogeneration units, Unit 3 and Unit 4, to operate in either simple cycle mode, without the cogeneration of steam, or in the current cogeneration configuration. The addition of simple cycle capability is needed because the steam demand in the adjacent oilfield is gradually declining and, in order to respond to current electricity market conditions for the power, one of the two units must be able to operate as a dispatchable simple cycle unit no later than April 1, 2004, with the second unit able to operate as a dispatchable simple cycle unit no later than November 1, 2004.

The petition requires the elimination of two conditions of certification that requires KRCC to operate as a cogeneration facility, AQ-13 and 17-2. KRCC will not be proposing any change in previously permitted maximum air emissions. As a result, no new conditions of certification are required.

This petition is consistent with recent requests submitted to both the San Joaquin Valley Air Pollution Control District (SJVAPCD) and the United States Environmental Protection Agency (EPA). Appendix A includes the complete copy of the SJVAPCD application to modify the current Permits to Operate and Appendix B includes a complete copy of the EPA application to modify the Prevention of Significant Deterioration (PSD) permit. Final action by both agencies is expected in late January. The CEC will be provided with copies of the final approvals as soon as they are available.

This petition for a post-certification amendment of KRCC is being submitted under the provisions of Section 1769 of Title 20, California Administrative Code (CEC *Rules of Practice and Procedure and Power Plant Site Certification Regulations*) to seek a minor modification to the air quality conditions of certification. The petition is organized to address the informational requirements of Section 1769 in the order they appear in the section. The requirement appears in ***bold italics*** followed by a narrative response.

2.0 INFORMATION REQUIRED BY SECTION 1769

(A) A complete description of the proposed modifications, including new language for any conditions that will be affected

Kern River Cogeneration Company (KRCC) is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam for enhanced oil recovery. Each CT/HRSG generates approximately ¼ of the total steam and electricity output. Each CT is equipped with Dry Low NOx (DLN) combustor technology capable of meeting the current SJVAPCD Rule 4703 NOx limit for gas turbines of 16.4 ppmv at 15% O2, dry and a CO emissions limit of 25 ppmv at 15% O2, dry.

As a result of gradually declining steam demand and negotiations regarding the KRCC electricity contract, it has been determined that one of the four KRCC CT units must be able to operate in either cogeneration or simple cycle mode no later than April 1, 2004. A second unit must be capable of operation in either the cogeneration or simple cycle mode no later than November 1, 2004. As a result, KRCC is requesting that the existing license for Unit 3 and Unit 4 be modified to allow the ability to operate in either cogeneration or simple cycle mode.

No additional physical construction is needed to facilitate the addition of simple cycle operation to Units 3 and 4. Each CT discharges to a HRSG through a transition section that is equipped with a gas-tight bypass stack. In order to operate in simple cycle, the bypass

stack damper would be repositioned to block off the HRSG, directing the CT exhaust through the bypass stack to the atmosphere. Since the Dry-Low NOx (DLN) operation is unaffected by the positioning of the bypass damper, the change to simple cycle operation will not impact the effectiveness of the current air pollution control system. As a result, during simple cycle operations there will not be any change in normal short-term CT emission rates.

The current license is based on a continuous, 24-hr day operation. While KRCC does not propose to specifically restrict its operating schedule in the future, it is anticipated that the power host will operate the two units in simple cycle on a dispatch schedule that is anticipated to be substantially fewer hours than historical operations. At the present time, we envision that the simple cycle units would operate in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day. However, to be consistent with the current license, potential-to-emit emissions have been calculated assuming the equivalent of a 24 hr/day operation, 7 days per week. We also anticipate that the units will operate more frequently in the summer peak power period, April through October, and less during the off-peak period of the year, November through March. The addition of simple cycle operation will increase the number of startups and shutdowns to one or two per day for the affected CT. Although actual emissions may be higher during startups and shutdowns than during current operations, KRCC will not be increasing permitted maximum hourly, daily or annual emissions, with the exception of the 2-hr CO emission limit during startups and shutdowns as noted below.

Based on the above, we have identified a two conditions of certification, condition AQ-13 and 17-2, that we propose to delete as follows:

~~AQ-13. The Kern River Project facility shall operate as a cogeneration facility pursuant to Public Resources Code Section 25134 for thermally enhanced oil recovery operations.~~

~~Verification: Kern River Cogeneration Company shall maintain records on steam production as a portion of the operation log required in Condition AQ-11. The reord shall include, but is not limited to, hours of operation o fthe turbines and HRSGs, lb/hr of steam produced, and temperature and pressure of steam produced.~~

~~17-2. This facility shall be operated as a cogenerating system in accordance with the definition of "cogeneration" contined in PRC Section 25134(b).~~

~~Verification: The Applicants shall file each year with the CEC an annual report demonstrating, through appropriate energy utilization calculations, that the facility is operating consistently with Section PRC 25134(b). This report shall also describe the type, frequency, and duration of any periods during which the facility, or its individual units is used solely for the purpose of electricity generation. The report shall be certified by the plant manager.~~

~~The Applicants shall notify the CEC in each instance on which permission to operate in a noncogeneration mode is requested fromKCAPCD pursuant to the Final Determination of Compliance (Appendix B of this Decision), operational condition f. Such notification shall be provided to the CEC within 10 working days of any such request.~~

(B) A discussion of the necessity for the proposed modifications

The modifications are necessary in order to allow KRCC to continue to sell power while adjusting to a gradually declining steam demand and need for dispatchable power by the utilities. The power host has indicated that at least one of the KRCC units must be available for dispatchable simple cycle operation no later than April 1, 2004. A second unit must be capable of operation in either the cogeneration or simple cycle mode no later than November 1, 2004.

(C) If the modification is based on information that was known by the petitioner during the certification proceeding, an explanation why the issue was not raised at that time

This need for dispatchable power and gradual decline in steam demand has come about as a result of contract negotiations regarding the existing power purchase agreement which comes to term in August 2005 and contract negotiations with the thermal host. The modification is not based on information that was known to the petitioner at the time of the certification.

(D) If the modification is based on new information that changes or undermines the assumptions, rationale, findings, or other bases of the final decision, an explanation of why the change should be permitted

The proposed modification is based on new information that was not available at the time of the original decision. First, demand for steam from KRCC is gradually declining and KRCC will not be able to continue to produce and sell all of the steam it is capable of generating. Second, the electricity host has indicated that its future resource needs are focused on peaking, not baseload capacity. The host has therefore asked that two of the four KRCC units be made available on a dispatchable basis, one by April 1, 2004 and the second by the fourth quarter of 2004. This new information will necessitate changes to KRCC's operation that will impact the findings and bases of the final decision in two regards: conversion of two units from cogeneration to either simple cycle or cogeneration will alter the CEC's original findings regarding conformance with Public Resources Code Section 25134, and conversion to simple cycle will alter the air quality impacts that were reviewed and approved in the original decision.

- Conversion of Two Cogeneration Units to Either Simple Cycle or Cogeneration

At the time of the original license, the facility was required to meet the definition of cogeneration in Public Resources Code Section 25134. A need conformance test based on previous requirements of the Siting Regulations had found the project to be in conformance with the Biennial Report since it would be a cogeneration facility. Under current Commission energy policy, a demand conformance test is no longer applied. While a portion of the facility will continue to operate as a cogeneration facility in the future, there is now a

market demand for dispatchable peaking capacity. Allowing KRCC to operate 2 units in simple cycle would be consistent with the State's need for additional dispatchable peaking capacity resources. By allowing this existing generation resource to continue to be used, the State would also avoid the environmental impacts associated with siting a new generator of equivalent capacity. In addition, the conversion to simple cycle would result in a beneficial air quality impact.

- Air Quality Impacts of Simple Cycle

Although there will be no changes in any of the existing air emission limits in the CEC license, operation in simple cycle mode will modify the dispersion characteristics of the two affected units. When Units 3 and 4 are operated in simple cycle mode, the exhaust gas will be discharged through a slightly shorter bypass stack with a higher temperature and a marginally lower stack exit velocity. A comprehensive analysis of these potential changes to exhaust gas stack discharge conditions has been performed. The analysis demonstrates that even under worst-case assumptions there will be a beneficial impact to ambient air quality.

(E) An analysis of the impacts the modification may have on the environment and proposed measures to mitigate any significant adverse impacts

A complete analysis of the proposed changes has been completed and submitted to the SJVAPCD for review. The application is included as Appendix A. The air quality impact analysis demonstrates that beneficial individual facility and cumulative air quality impacts will result from the proposed changes. Furthermore, the original KRCC facility was fully mitigated with emission offsets. Since the proposed change will not increase allowable daily or annual emissions from the facility, no additional air quality mitigation is needed. Based on the above, the proposed change will not cause any significant air quality impacts. To the contrary, the air quality impacts are actually beneficial.

No other environmental issues or concerns are impacted by the proposed change and no additional analysis is needed for other environmental issue areas.

(F) A discussion of the impact of the modification on the facility's ability to comply with applicable laws, ordinances, regulations, and standards

The proposed changes will comply with all applicable laws, ordinances, regulations and standards as demonstrated by the attached SJVAPCD (Appendix A). The applicant has also requested that EPA acknowledge that the proposed changes do not constitute a major modification that would be subject to full PSD review. A copy of this request is included (Appendix B). A copy of EPA's response will be forwarded to the CEC under separate cover. While this response will be informative, it is not a requirement for the CEC to process this petition request as KRCC will comply with all applicable federal laws, ordinances, regulations and standards as it has since it began operation.

(G) A discussion of how the modification affects the public

The proposed revisions will have a beneficial impact on the public since air quality impacts will be lessened by the proposed change to KRCC.

(H) A list of property owners potentially affected by the modification

There are no property owners that will be affected by the proposed modification. A single property owner is located within 1000 feet of the KRCC site, ChevronTexaco. The applicable contact information for ChevronTexaco is provided below:

ChevronTexaco	Physical Address	Mailing Address
	1546 China Grade Loop	P.O. Box 1392
	Bakersfield, CA 93302	Bakersfield, CA 93380

(l) A discussion of the potential effect on near by property owners, the public and the parties in the application proceedings

The proposed revisions will have a positive impact on near by property owners, since air quality impacts will be lessened by the proposed change to KRCC.

3.0 SCHEDULE

The application for EPA modification of the PSD permit was submitted on December 15, 2003 and the applications to modify the SJVAPCD Permits to Operate were submitted on December 18, 2003. Based on discussions with EPA staff, the project will not subject to a formal PSD review and we anticipate that EPA will take final action within a few weeks. Based on discussions with SJVAPCD, we also anticipate a very streamlined and fast-track review with final action by the end of January 2003. A copy of the final approvals by both agencies will be provided to the CEC as soon as they are available. We respectfully request that the CEC process this petition to amend the license as expeditiously as is possible, so that KRCC has the ability to commence simple cycle operation by April 1, 2004.

4.0 SUMMARY

This minor amendment will only affect air quality impacts in a beneficial perspective. There are no changes to any other environmental impact area. The effect of the proposed changes is to allow a allow KRCC to operate Units 3 and 4 in either simple cycle or cogeneration mode. An air quality impact analysis has been performed to demonstrate that there are no significant impacts from the proposed change (in fact, the proposed change would be beneficial to air quality). The original restriction for the facility to operate as a cogeneration facility is no longer relevant under current market conditions and CEC regulation. Approving this petition will therefore not undermine or negatively impact relevant portions of the original decision that are impacted by the proposed change. SJVAPCD and EPA are both reviewing the proposed change and have indicated that approval should be possible in a matter of weeks. Both agency approvals will be provided to the CEC promptly upon their

receipt by KRCC. We therefore respectfully request that the CEC expedite the processing of this petition to allow simple cycle operation of either Unit 3 or Unit 4 to commence as soon as April 1, 2004.

APPENDIX A

APPLICATION TO SJVAPCD TO MODIFY PERMITS TO OPERATE

Kern River Cogeneration Company | Box 80478, Bakersfield, CA 93380 • (661) 392-2630

Neil E. Burgess, Executive Director

HAND DELIVERED ON:

December 18, 2003

KR-8584

Mr. Tom Goff
Permit Services Manager
San Joaquin Valley APCD - Southern Regional Office
2700 "M" Street, Suite 275
Bakersfield, CA 93301-2370

Re: **ATC Modification Applications S-88-3-10 and S-88-4-10**

Dear Mr. Goff:

Please find attached two authority to construct (ATC) applications to allow Unit 3 (S-88-3-10) and Unit 4 (S-88-4-10) at the Kern River Cogeneration Company (KRCC) to operate in either simple cycle mode or in cogeneration mode. These minor amendment applications have been CAPP certified and are a follow-up to the meetings we held with you in October and November, 2003. A $120 check has been included to cover the application fees.

Please note that the health risk assessment data on the gas turbine forms includes parameters with respect to simple cycle operation. When the units operate in cogeneration mode, no change will exist from current emissions parameters.

Also, please be advised that KRCC has a very narrow timeframe for processing these applications. The power host has requested that one of the two units be available to be operated in simple cycle mode by April 1, 2004 and the second unit in the fourth quarter of 2004. The District approval will need to be provided to the CEC for their incorporation into a modified license, which we must also receive before April 1, 2004. Therefore, we respectfully request priority processing for this application. KRCC authorizes and agrees to pay for any overtime expenses that may be required to accommodate our accelerated schedule.

If you have any questions, please contact either Mervyn Soares at (661) 392-2643 or our consultant, David Stein of URS at (510) 874-3143. Thank you for your prompt consideration.

DLB:yh

Attachments

xc: D. Stein – URS-Oakland (w/attachments)
S. Tomlin – SJVAPCD-Bakersfield (w/attachments)
S. Sadredin – SJVAPCD-Fresno (w/attachments)

San Joaquin Valley Air Pollution Control District

www.valleyair.org

Permit Application For:

- [ ] AUTHORITY TO CONSTRUCT (ATC) - New Emission Unit.
- [x] AUTHORITY TO CONSTRUCT (ATC) - Modification Of Emission Unit With Valid PTO/Valid ATC.
- [ ] AUTHORITY TO CONSTRUCT (ATC) - Renewal of Valid Authority to Construct.
- [ ] PERMIT TO OPERATE (PTO) - Existing Emission Unit Now Requiring a Permit to Operate.

1. PERMIT TO BE ISSUED TO: Kern River Cogeneration Company

2. MAILING ADDRESS: STREET/P.O. BOX: P.O. Box 81438
CITY: Bakersfield STATE: CA 9-DIGIT ZIP CODE: 93380

3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:
STREET: _____ CITY: _____
north /4 SECTION 32 TOWNSHIP 28S RANGE 28E

WITHIN 1,000 FT OF A SCHOOL? [ ] YES [x] NO

S.I.C. CODE(S) OF FACILITY (If known): 4911/4931

4. GENERAL NATURE OF BUSINESS: Electricity generation

INSTALL DATE: 4/1/04

5. TITLE V PERMIT HOLDERS ONLY: Do you request a COC (EPA Review) prior to receiving your ATC? [x] YES [ ] NO

6. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)
Addition of simple cycle operation Unit 3, S-88-3-10

7. PERMIT REVIEW PERIOD: Do you request a three day period to review the draft Authority to Construct permit? [x] YES [ ] NO
Please note that checking "YES" will delay issuance of your final permit by at least three days.

8. HAVE YOU EVER APPLIED FOR AN ATC OR PTO IN THE PAST? [x] YES [ ] NO
If yes, ATC/PTO #: S-88-3-10

9. HAVE ALL NECESSARY LAND-USE AUTHORIZATIONS BEEN OBTAINED? [x] YES [ ] NO
(If "No" is checked, please attach explanation.)

10. IS THIS APPLICATION SUBMITTED AS THE RESULT OF EITHER A NOTICE OF VIOLATION OR A NOTICE TO COMPLY? [ ] YES [x] NO
If yes, NOV/NTC #: _____

Optional Section

11. CHECK WHETHER YOU ARE A PARTICIPANT IN EITHER OF THESE VOLUNTARY PROGRAMS:

"SPARE THE AIR"
[ ] Yes [ ] No [ ] Send info

"INSPECT"
[ ] Yes [ ] No [ ] Send info

12. TYPE OR PRINT NAME OF APPLICANT: Neil Burgess

TITLE OF APPLICANT: Executive Director

13. SIGNATURE OF APPLICANT: N E Burgess DATE: Dec 18, 2003

PHONE #: (661) 392-2643
FAX #: (661) 392-2990
E-MAIL: masoares@sycamore.com

FOR APCD USE ONLY:

DATE STAMP:

FILING FEE RECEIVED: $_____ CHECK #: _____

DATE PAID: _____

PROJECT #: _____ FACILITY ID: _____

EMISSIONS DATA (continued)

Secondary Fuel	When will the secondary fuel be used? ☐ Primary fuel curtailment ☐ Simultaneously with primary fuel ☒ Other: Not used		
	Secondary Fuel Type: ☐ Natural Gas ☐ LPG/Propane ☐ Diesel ☐ Other: Not used		
	Higher Heating Value: _____ Btu/gal or Btu/scf	Sulfur Content: _____ % by weight or gr/scf	
	Maximum Fuel Use @ HHV: _____ scf/hr or gal/hr	Rated Efficiency (EFF_{Mfg}): _____ %	
	Nitrogen Oxides (as NO_2)	ppmvd	lb/MMBtu
	Carbon Monoxide	ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH_4)	ppmvd	lb/MMBtu
	Particulate Matter (PM_{10})	lb/hr	lb/MMBtu
	% O_2, dry basis, if corrected to other than 15%	_____ %	
Source of Data (include copies)	☐ Manufacturer's Specifications ☐ Emission Source Test ☒ Other Current PTO		

EMISSIONS CONTROL

Emissions Control Equipment	☒ Inlet Air Filter/Cooler	☒ Lube Oil Vent Coalescer
	☐ Selective Catalytic Reduction - Manufacturer: _____ Model: _____	
	☐ Oxidation Catalyst - Manufacturer: _____ Model: _____	
	Control Efficiencies: NO_x _____%, SO_x _____%, PM_{10} _____%, CO _____%, VOC _____%	
	☐ Other (please specify)	
	For units equipped with exhaust gas NO_x control equipment and rated < 10 MW, or rated ≥ 10 MW but operated < 4,000 hr/yr, one may choose at least one of the following alternate emission monitoring schemes in lieu of a CEMS (each option below must be approved by APCO on a case-by-case basis. Please include a detailed proposal for each option chosen): ☐ Periodic NO_x emission concentration ☐ Turbine exhaust O_2 concentration ☐ Air-to-Fuel ratio ☐ Flow rate of reducing agents added to turbine exhaust ☐ Catalyst inlet and outlet temperature ☐ Catalyst inlet and exhaust O_2 conc. ☐ Other operation characteristics as approved by the APCO (specify on attached sheet)	

HEALTH RISK ASSESSMENT DATA

Operating Hours	Maximum Operating Schedule: 24 hours per day, and 8760 hours per year		
Receptor Data	Distance to nearest Residence	7000 feet	Distance is measured from the proposed stack location to the nearest boundary of the nearest apartment, house, dormitory, etc.
	Direction to nearest Residence	SW	Direction from the stack to the receptor, i.e. North or South.
	Distance to nearest Business	3500 feet	Distance is measured from the proposed stack location to the nearest boundary of the nearest office building, factory, store, etc.
	Direction to nearest Business	S	Direction from the stack to the receptor, i.e. North or South.
Stack Parameters	Release Height	46.6 feet above grade	
	Stack Diameter	210.9 inches at point of release	
	Rain Cap	☐ Flapper-type ☐ Fixed-type ☒ None ☐ Other: _____	
	Direction of Flow	☒ Vertically Upward ☐ Horizontal ☐ Other: ___° from vert. or ___° from horiz.	
Exhaust Data	Flowrate: 1,188,895 acfm	Temperature: 1025 °F	
Facility Location	☐ Urban (area of dense population) ☒ Rural (area of sparse population)		

FOR DISTRICT USE ONLY

Date:	**FID:**	**Project:**	**Public Notice: Y N**
Comments:			

San Joaquin Valley Air Pollution Control District

www.valleyair.org

Permit Application For:

- [ ] AUTHORITY TO CONSTRUCT (ATC) - New Emission Unit.
- [x] AUTHORITY TO CONSTRUCT (ATC) - Modification Of Emission Unit With Valid PTO/Valid ATC.
- [ ] AUTHORITY TO CONSTRUCT (ATC) - Renewal of Valid Authority to Construct.
- [ ] PERMIT TO OPERATE (PTO) - Existing Emission Unit Now Requiring a Permit to Operate.

1. PERMIT TO BE ISSUED TO: Kern River Cogeneration Company

2. MAILING ADDRESS: STREET/P.O. BOX: P.O. Box 81438
CITY: Bakersfield STATE: CA 9-DIGIT ZIP CODE: 93380

3. LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:
STREET: _____ CITY: _____
north /4 SECTION 32 TOWNSHIP 28S RANGE 28E

WITHIN 1,000 FT OF A SCHOOL? [ ] YES [x] NO

S.I.C. CODE(S) OF FACILITY (If known): 4911/4931

4. GENERAL NATURE OF BUSINESS: Electricity generation

INSTALL DATE: 4/1/04

5. TITLE V PERMIT HOLDERS ONLY: Do you request a COC (EPA Review) prior to receiving your ATC? [x] YES [ ] NO

6. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary)

Addition of simple cycle operation Unit 4, S-88-4-10

7. PERMIT REVIEW PERIOD: Do you request a three day period to review the draft Authority to Construct permit? [x] YES [ ] NO
Please note that checking "YES" will delay issuance of your final permit by at least three days.

8. HAVE YOU EVER APPLIED FOR AN ATC OR PTO IN THE PAST? [x] YES [ ] NO
If yes, ATC/PTO #: S-88-4-10

9. HAVE ALL NECESSARY LAND-USE AUTHORIZATIONS BEEN OBTAINED? [x] YES [ ] NO
(If "No" is checked, please attach explanation.)

10. IS THIS APPLICATION SUBMITTED AS THE RESULT OF EITHER A NOTICE OF VIOLATION OR A NOTICE TO COMPLY? [ ] YES [x] NO
If yes, NOV/NTC #: _____

Optional Section

11. CHECK WHETHER YOU ARE A PARTICIPANT IN EITHER OF THESE VOLUNTARY PROGRAMS:

"SPARE THE AIR"
[ ] Yes [ ] No [ ] Send info

"INSPECT"
[ ] Yes [ ] No [ ] Send info

12. TYPE OR PRINT NAME OF APPLICANT: Neil Burgess

TITLE OF APPLICANT: Executive Director

13. SIGNATURE OF APPLICANT: N. L. Burgess DATE: Dec 18, 2003

PHONE #: (661) 392-2643
FAX #: (661) 392-2990
E-MAIL: masoares@sycamore.com

FOR APCD USE ONLY:

DATE STAMP:

FILING FEE RECEIVED: $ _____ CHECK #: _____

DATE PAID: _____

PROJECT #: _____ FACILITY ID: _____

San Joaquin Valley Air Pollution Control District
Supplemental Application Form
Gas Turbines

Please complete one form for each gas turbine.

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

PERMIT TO BE ISSUED TO: Kern River Cogeneration Company

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:
North 1/2, Section 32, Township 28S, Range 28E

EQUIPMENT DESCRIPTION

Equipment Details	☒ Industrial Frame ☐ Aero Derivative ☐ Other:		
	Manufacturer: GE	Model: 7EA	Serial Number:
	☐ Simple Cycle ☐ Combined Cycle ☐ Co-generation ☒ Other: Simple Cycle or Cogen		
	Total Rated Shaft Output Power: 75 (Nominal) MW		
Rule 4703 Type of Use and Emissions Monitoring Provisions	☐ Peaking Unit - limited to no more than 877 hrs/yr of operation ☐ Emergency Standby - limited to less than 200 hrs/yr of operation ☒ Full Time - must have either a Continuous Emission Monitoring System (CEMS) or an alternate emissions monitoring plan (must be approved by the APCO) ☒ CEMS, please specify all pollutants monitored: ☒ NO_x ☒ CO ☐ O_2 ☒ Other CO2 ☐ Alternate Emissions Monitoring Plan (please provide details in additional documentation)		
Fuel Use Meter	☒ Gaseous Fuel Meter ☐ Liquid Fuel Meter ☐ None		
Process Data	Will this unit be used in an electric utility rate reduction program? ☐ Yes ☒ No		
Combustor(s)	Manufacturer: GE	Model: 7EA	Number of Combustors: 10
	Maximum Heat Input Rating (for all combustors @ ISO standard conditions): 1,020 MM Btu/hr		
	Water Injection: ☐ Yes ☒ No	Dry Low NO_x Technology: ☒ Yes ☐ No	
	Steam Injection: ☐ Yes ☒ No	Other NO_x Control Technology:	

EMISSIONS DATA

Note: See District BACT and District Rule 4703 requirements for applicability to proposed unit at http://www.valleyair.org/busind/pto/bact/chapter3.pdf and http://www.valleyair.org/rules/currntrules/r4703.pdf

Primary Fuel	Primary Fuel Type: ☒ Natural Gas ☐ LPG/Propane ☐ Diesel ☐ Other:		
	Higher Heating Value: 1,050 Btu/gal or Btu/scf	Sulfur Content: 0.001 % by weight or gr/scf	
	Maximum Fuel Use @ HHV: 1.1 MM scf/hr or gal/hr	Rated Efficiency (EFF_{Mfg}): 30 %	
	Nitrogen Oxides (as NO_2)	16.4 ppmvd	lb/MMBtu
	Carbon Monoxide	25 ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH_4)	ppmvd	.01176 lb/MMBtu
	Particulate Matter (PM_{10})	5.0 lb/hr	lb/MMBtu
	% O_2, dry basis, if corrected to other than 15%	%	

EMISSIONS DATA (continued)

Secondary Fuel	When will the secondary fuel be used? ☐ Primary fuel curtailment ☐ Simultaneously with primary fuel ☒ Other: Not used		
	Secondary Fuel Type: ☐ Natural Gas ☐ LPG/Propane ☐ Diesel ☐ Other: Not used		
	Higher Heating Value: _____ Btu/gal or Btu/scf	Sulfur Content: _____ % by weight or gr/scf	
	Maximum Fuel Use @ HHV: _____ scf/hr or gal/hr	Rated Efficiency (EFF_{Mfg}): _____ %	
	Nitrogen Oxides (as NO_2)	ppmvd	lb/MMBtu
	Carbon Monoxide	ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH_4)	ppmvd	lb/MMBtu
	Particulate Matter (PM_{10})	lb/hr	lb/MMBtu
	% O_2, dry basis, if corrected to other than 15%	_____ %	
Source of Data (include copies)	☐ Manufacturer's Specifications ☐ Emission Source Test ☒ Other Current PTO		

EMISSIONS CONTROL

Emissions Control Equipment	☒ Inlet Air Filter/Cooler ☒ Lube Oil Vent Coalescer
	☐ Selective Catalytic Reduction - Manufacturer: _____ Model: _____
	☐ Oxidation Catalyst - Manufacturer: _____ Model: _____
	Control Efficiencies: NO_x _____%, SO_x _____%, PM_{10} _____%, CO _____%, VOC _____%
	☐ Other (please specify)
	For units equipped with exhaust gas NO_x control equipment and rated < 10 MW, or rated ≥ 10 MW but operated < 4,000 hr/yr, one may choose at least one of the following alternate emission monitoring schemes in lieu of a CEMS (each option below must be approved by APCO on a case-by-case basis. Please include a detailed proposal for each option chosen): ☐ Periodic NO_x emission concentration ☐ Turbine exhaust O_2 concentration ☐ Air-to-Fuel ratio ☐ Flow rate of reducing agents added to turbine exhaust ☐ Catalyst inlet and outlet temperature ☐ Catalyst inlet and exhaust O_2 conc. ☐ Other operation characteristics as approved by the APCO (specify on attached sheet)

HEALTH RISK ASSESSMENT DATA

Operating Hours	Maximum Operating Schedule: 24 hours per day, and 8760 hours per year		
Receptor Data	Distance to nearest Residence	7000 feet	Distance is measured from the proposed stack location to the nearest boundary of the nearest apartment, house, dormitory, etc.
	Direction to nearest Residence	SW	Direction from the stack to the receptor, i.e. North or South.
	Distance to nearest Business	3500 feet	Distance is measured from the proposed stack location to the nearest boundary of the nearest office building, factory, store, etc.
	Direction to nearest Business	S	Direction from the stack to the receptor, i.e. North or South.
Stack Parameters	Release Height	46.6 feet above grade	
	Stack Diameter	210.9 inches at point of release	
	Rain Cap	☐ Flapper-type ☐ Fixed-type ☒ None ☐ Other: _____	
	Direction of Flow	☒ Vertically Upward ☐ Horizontal ☐ Other: ___° from vert. or ___° from horiz.	
Exhaust Data	Flowrate: 1,188,895 acfm	Temperature: 1025 °F	
Facility Location	☐ Urban (area of dense population) ☒ Rural (area of sparse population)		

FOR DISTRICT USE ONLY

Date:	**FID:**	**Project:**	**Public Notice: Y N**
Comments:			

San Joaquin Valley Air Pollution Control District
Supplemental Application Form
Gas Turbines

Please complete one form for each gas turbine.

This form must be accompanied by a completed Application for Authority to Construct and Permit to Operate form

PERMIT TO BE ISSUED TO: Kern River Cogeneration Company

LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:
North 1/2, Section 32, Township 28S, Range 28E

EQUIPMENT DESCRIPTION

Equipment Details	☒ Industrial Frame ☐ Aero Derivative ☐ Other:		
	Manufacturer: GE	Model: 7EA	Serial Number:
	☐ Simple Cycle ☐ Combined Cycle ☐ Co-generation ☒ Other: Simple Cycle or Cogen		
	Total Rated Shaft Output Power: 75 (Nominal) MW		
Rule 4703 Type of Use and Emissions Monitoring Provisions	☐ Peaking Unit - limited to no more than 877 hrs/yr of operation ☐ Emergency Standby - limited to less than 200 hrs/yr of operation ☒ Full Time - must have either a Continuous Emission Monitoring System (CEMS) or an alternate emissions monitoring plan (must be approved by the APCO) ☒ CEMS, please specify all pollutants monitored: ☒ NO_x ☒ CO ☐ O_2 ☒ Other CO2 ☐ Alternate Emissions Monitoring Plan (please provide details in additional documentation)		
Fuel Use Meter	☒ Gaseous Fuel Meter ☐ Liquid Fuel Meter ☐ None		
Process Data	Will this unit be used in an electric utility rate reduction program? ☐ Yes ☒ No		
Combustor(s)	Manufacturer: GE	Model: 7EA	Number of Combustors: 10
	Maximum Heat Input Rating (for all combustors @ ISO standard conditions): 1,020 MM Btu/hr		
	Water Injection: ☐ Yes ☒ No	Dry Low NO_x Technology: ☒ Yes ☐ No	
	Steam Injection: ☐ Yes ☒ No	Other NO_x Control Technology:	

EMISSIONS DATA

Note: See District BACT and District Rule 4703 requirements for applicability to proposed unit at http://www.valleyair.org/busind/pto/bact/chapter3.pdf and http://www.valleyair.org/rules/currntrules/r4703.pdf

Primary Fuel	Primary Fuel Type: ☒ Natural Gas ☐ LPG/Propane ☐ Diesel ☐ Other:		
	Higher Heating Value: 1,050 Btu/gal or Btu/scf	Sulfur Content: 0.001 % by weight or gr/scf	
	Maximum Fuel Use @ HHV: 1.1 MM scf/hr or gal/hr	Rated Efficiency (EFF_{Mfg}): 30 %	
	Nitrogen Oxides (as NO_2)	16.4 ppmvd	lb/MMBtu
	Carbon Monoxide	25 ppmvd	lb/MMBtu
	Volatile Organic Compounds (as CH_4)	ppmvd	.01176 lb/MMBtu
	Particulate Matter (PM_{10})	5.0 lb/hr	lb/MMBtu
	% O_2, dry basis, if corrected to other than 15%	%	

AUTHORITY TO CONSTRUCT CAPP APPLICATION SUBMITTAL

Processing Engineer: Steve Tomlin, Sr. Air Quality Engineer
Lead Engineer: Tom Goff, Permit Services Manager
Date: December 17, 2003

Facility Name:	Kern River Cogeneration Company
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Kimberly L. Williams
12/18/03

CERTIFIED AIR PERMITTING PROFESSIONAL
Kimberly L. Williams
#1041
Certified By
San Joaquin VAlley
Unified Air Pollution
Control District

Project Number:	_____
Permit Numbers:	S-88-3-10 and S-88-4-10
Submitted:	December 17, 2003
Complete:	

URS

I. PROPOSAL

Kern River Cogeneration Company (KRCC) is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam for enhanced oil recovery. Each CT/HRSG generates approximately ¼ of the total steam and electricity output. Each CT is equipped with Dry Low NOx (DLN) combustor technology capable of meeting the current Rule 4703 NOx limit of 16.4 ppmv at 15% O2, dry and a CO emissions limit of 25 ppmv at 15% O2, dry.

Based on anticipated gradual declining steam demand and negotiations regarding the KRCC electricity contract, it has been determined that one of the four KRCC CT units must be able to operate in either cogeneration or simple cycle mode no later than April 1, 2004. A second unit must be capable of operating in either the cogeneration or simple cycle mode no later than November 1, 2004. Accordingly, KRCC is requesting that the existing operating Permits to Operate for Unit 3 (S-88-3-10) and Unit 4 (S-88-4-10) be modified to allow the ability to operate in either cogeneration or simple cycle mode.

KRCC is also requesting that the 2-hr emission limit for CO of 140 lb/hr for startups and shutdowns be re-instated that were in the original DLN retrofit 4703 project DOC and subsequent permits-to-operate (PTOs) and had been removed when the Title V permit was issued. The CO 2-hr startup and shutdown limit had been removed to retain consistency with the EPA PSD permit, which did not recognize a separate startup and shutdown limit. KRCC has applied to amend the PSD permit to include simple cycle operation and to specifically add the higher CO startup and shutdown limit of 140 lb/hr.

The proposed addition to simple cycle involves a redirection of the CT exhaust through an existing bypass stack. Because there will be no change in permitted daily emissions, a BACT review is not required. The original KRCC facility was fully offset by the shutdown of existing steam generators.

II. APPLICABLE RULES

Rule 1080	Stack Monitoring (12/17/92)
Rule 1081	Source Sampling (12/16/93)
Rule 2201	New and Modified Stationary Source Review (12/19/02)
Rule 2520	Federally Mandated Operating Permits (6/15/95)
Rule 2540	Acid Rain Program (11/13/97)
Rule 4001	NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (04/14/99)
Rule 4101	Visible Emissions (12/17/92)
Rule 4102	Nuisance (12/17/92)
Rule 4201	Particulate Matter Concentration (12/17/92)
Rule 4301	Fuel Burning Equipment (12/17/92)

Rule 4703 Stationary Gas Turbines (04/25/02)
Rule 4801 Sulfur Compounds (12/17/92)
Rule 8010 Fugitive Dust Administrative Requirements for Control of Fine Particulate Matter (4/25/96)
Rule 8021 Construction, Demolition, Excavation, Extraction and, Other Earthmoving Activities (11/15/01)
CH&S Code, Sections 41700 and 44300 (Air Toxics "Hot Spots")

III. PROJECT LOCATION

KRCC is located in the center of the north ½ of Section 32, Township 28 South, Range 28 East in the Kern River oilfield. There are no schools within 1000 feet of the project site.

IV. PROCESS DESCRIPTION

No additional physical construction is needed to facilitate the conversion of Units 3 and 4 to simple cycle operation. Each CT discharges to a HRSG through a transition section that is equipped with a gas-tight bypass stack. In order to operate in simple cycle, the bypass stack damper would be repositioned to block off the HRSG, directing the CT exhaust through the bypass stack to the atmosphere. Since the Dry-Low NOx (DLN) operation is unaffected by the positioning of the bypass damper, the change to simple cycle operation will not impact the current air pollution control system. As a result, during simple cycle operations we do not anticipate any change in normal short-term CT emission rates.

The current KRCC permit is based on a continuous, 24-hr day operation. While KRCC does not propose to specifically restrict its operating schedule in the future, it is anticipated that the power host will operate the two units in simple cycle on a dispatch schedule that is anticipated to be substantially fewer hours than historical operations. At the present time, we envision that the simple cycle units would operate in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day. However, to be consistent with the current Permits to Operate, potential to emit emissions have been calculated assuming the equivalent of a 24 hr/day operation, 7 days per week. We also anticipate that the units will operate more frequently in the summer peak power period, April through October, and less during the off-peak period of the year, November through March. The addition of simple cycle operation will increase the number of startups and shutdowns for the affected CT. Although actual emissions may be higher during startups and shutdowns than during current operations, KRCC will not be increasing permitted maximum hourly, daily or annual emissions, with the exception of re-instating the 2-hr CO emission limit during startups and shutdowns as noted below.

KRCC is requesting that the 2-hr emission limit for CO of 140 lb/hr for startups and shutdowns that had been removed when the Title V permit was issued be reinstated. The CO 2-hr startup and shutdown limit that was in the original DLN

retrofit 4703 project DOC and subsequent permits-to-operate (PTOs) had been removed to retain consistency with the EPA PSD permit, which did not recognize a separate startup and shutdown limit. KRCC has applied to amend the PSD permit to include simple cycle operation and to specifically add the higher CO startup and shutdown limit of 140 lb/hr.

V. EQUIPMENT LISTING

S-88-3-10: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS DISCHARGING TO ATMOSPHERE THROUGH A BYPASS STACK DURING SIMPLE CYCLE OPERATION AND SERVING AN UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR WHEN OPERATED IN COGNERATION MODE (KRCC UNIT #3)

S-88-4-10: 75 MW GENERAL ELECTRIC MODEL 7EA NATURAL GAS-FIRED COMBUSTION TURBINE WITH DRY LOW NOX COMBUSTORS DISCHARGING TO ATMOSPHERE THROUGH A BYPASS STACK DURING SIMPLE CYCLE OPERATION AND SERVING AN UNFIRED 450,000 LB/HR HEAT RECOVERY STEAM GENERATOR WHEN OPERATED IN COGNERATION MODE (KRCC UNIT #4)

VI. EMISSION CONTROL TECHNOLOGY EVALUATION

The combustion turbines utilize GE's proprietary Dry Low NOx (DLN) technology. The DLN technology employs lean premixed combustion to stage combustion, resulting in reduced NOx formation. The DLN system installed at KRCC is currently limited to 16.4 ppmv NOx and 25 ppmv CO, dry at 15% oxygen.

A. BACT Applicability:

Pursuant to Rule 2201, subsection 4.1.1, BACT is required for any criteria pollutant with proposed emissions exceeding 2 lb/day.

For this project, BACT will not be triggered for NOx, CO, VOC, SO2 or PM10 because there will be no change in permitted emission levels and no change in the control efficiency before and after the addition of simple cycle operation.

VII. CALCULATIONS

A. Assumptions:

Operating schedule: 24 hr/day, 365 day/yr

B. Emission Factors:

Emission factors for NOx, CO, VOC, SO2 and PM10 are based on the following maximum heat input of 1020 MMBtu/hr (LHV) (condition #30) and the emission rate limits (conditions 40, 41and 67). Emission factors are identical for both S-88-3-10 and S-88-4-10. These emission factors apply over the 80% to 100% load range that is reflective of normal operation

The maximum air contaminant mass emission rates (lb/hr), concentrations (ppmvd @ 15% O_2), and startup and shutdown emissions rates for the CTGs are summarized below based on current permit conditions:

Table VII-1. Emission Factors During Normal Operations

	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
Mass Emission Rates (per turbine, lb/hr)	79.7 (1-hr avg) 67.9 (3-hr avg)	44 (3-hr avg)	12	5.0	0.5	0.6
ppmvd @ 15% O_2 limits	16.4 (3-hr avg)	25 (3-hr avg)	--	--	--	--
lb/MMBtu (1-hr avg)[1]	0.06657	0.04314	0.01176	0.00490	0.00049	0.00588

[1] lb/MMBtu = lb/hr ÷ 1020 MMBtu/hr

Table VII-2. Emission Factors During Startups and Shutdowns

	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
Mass Emission Rates (per turbine, lb/hr)	140	140	12	5.0	0.5	0.6
ppmvd @ 15% O_2 limits	--	--	--	--	--	--

It is noteworthy that the emission factors for both the pre-project and post-project cases are identical.

C. CALCULATIONS

1. Pre-Project Potential to Emit (PE1)

The pre-project potential to emit is equivalent to PE2 and is identical for both S-88-3-10 and S-88-4-10.

Table VII-3. Maximum Emissions, lb/hr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	140[2]	44[3]	12	5.0	0.5	0.6
S-88-4-10	140[2]	44[3]	12	5.0	0.5	0.6
Total	280	88	24	10	1.0	1.2

[1] Based on current Permit to Operate
[2] Maximum emissions for startup only. Maximum emissions during normal operation are shown in Table VII-1, above.
[3] The startup/shutdown CO limit of 140 lb/hr was removed from the Title V permit and KRCC now proposes to reinstate it without increasing current maximum daily CO emissions.

Table VII-4. Maximum Daily Emissions, lb/day (PE1)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]
S-88-4-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]
Total	3259.4	2112	576	240	24	28.8

[1] Current Permit to Operate emission limit (includes startup and shutdown emissions)
[2] Maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day

Table VII-5. Maximum Annual Emissions, lb/yr

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	594841	385440	105120	43800	4380	5256
S-88-4-10	594841	385440	105120	43800	4380	5256
Total	1189682	770880	210240	87600	8760	10512

[1] Maximum daily emissions, lb/day x 365 day/yr

2. Historically Adjusted Potential to Emit (HAPE)

As set forth is Rule 2201, Section 4.4, the historically adjusted potential to emit for each unit is calculated as:

HAPE = PE1 x (EF2/EF1)

Since the emission factors reported in Section B, above, are identical for both the pre-project and post-project case, EF2 = EF1. Therefore,

HAPE = PE1

The HAPE is identical for both S-88-3-10 and S-88-4-10 as is shown in section 1., above as:

Table VII-6. Historically Adjusted Potential to Emit, lb/day (HAPE)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]
S-88-4-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]

[1] Current Permit to Operate emission limit (includes startup and shutdown emissions)
[2] Maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day.

3. Post-Project Potential to Emit (PE2)

The applicant is proposing to reinstate the startup/shutdown emission limit of 140 lb/hr (2-hr avg) that was removed when the Title V permit was issued. All other hourly and daily emission limits remain unchanged.

Table VII-7. Post-Project Maximum Emissions, lb/hr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	140[2]	140[3]	12	5.0	0.5	0.6
S-88-4-10	140[2]	140[3]	12	5.0	0.5	0.6
Total	280	280	24	10	1.0	1.2

[1] Based on current Permit to Operate
[2] Maximum emissions for startup only. Maximum emissions during normal operation are shown in Table VII-1, above.
[3] The startup/shutdown CO limit of 140 lb/hr was removed from the Title V permit and KRCC now proposes to reinstate it without increasing current maximum daily CO emissions.

Table VII-8. Post-Project Maximum Daily Emissions, lb/day

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]
S-88-4-10	1629.7[1]	1056[1]	288[2]	120[2]	12[2]	14.4[2]
Total	3259.4	2112	576	240	24	28.8

[1] Current Permit to Operate emission limit (includes startup and shutdown emissions)
[2] Maximum hourly emissions (Table VII-3), lb/hr x 24 hr/day

Table VII-9. Post-Project Maximum Annual Emissions, lb/yr[1]

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10	594841	385440	105120	43800	4380	5256
S-88-4-10	594841	385440	105120	43800	4380	5256
Total	1189682	770880	210240	87600	8760	10512

[1] Maximum daily emissions, lb/day x 365 day/yr

4. Adjusted Increase In Permitted Emissions (AIPE)

As set forth in Rule 2201, Section 4.3, the adjusted increase in permitted emissions is calculated as:

AIPE = PE2 – HAPE

Table VII-10. Adjusted Increase In Permitted Emission, lb/day (AIPE)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2	SO_4
S-88-3-10						
PE2	1629.7	1056	288	120	12	14.4
HAPE	1629.7	1056	288	120	12	14.4
AIPE	0	0	0	0	0	0

S-88-4-10						
PE2	1629.7	1056	288	120	12	14.4
HAPE	1629.7	1056	288	120	12	14.4
AIPE	0	0	0	0	0	0

5. BACT Applicability and Conformance

Based on the calculations in 2., above, the adjusted increase in permitted emissions of NOx, CO, VOC, SO2 and PM10 for each unit will not exceed 2 lb/day and will not require BACT.

6. Stationary Source Potential to Emit

Pre-Project Stationary Source Potential to Emit (SSPE1)

Pursuant to Section 4.9 of District Rule 2201, the Pre-project Stationary Source Potential to Emit (SSPE1) is the Potential to Emit (PE) from all units with valid Authorities to Construct (ATC) or Permits to Operate (PTO) at the Stationary Source and the quantity of emission reduction credits (ERC) which have been banked since September 19, 1991 for Actual Emissions Reductions that have occurred at the source, and which have not been used on-site. The pre-project Stationary Source Potential to Emit is as follows:

Table VII-11. Pre-Project Stationary Source Potential To Emit (SSPE1)

Permit Unit	NO_X	CO	VOC	PM_{10}	SO_2
S-88-1-10	594841	385440	105120	43800	4380
S-88-2-10	594841	385440	105120	43800	4380
S-88-3-10	594841	385440	105120	43800	4380
S-88-4-10	594841	385440	105120	43800	4380
S-88-5-2 (IC engine)	2496	666	66	250	291
Pre-project SSPE (SSPE1)	2381860	1542426	420546	175450	17811

7. Quantity of Offsets Required

Table VII-12. Determination of Offset Requirements

	NO_X	CO	VOC	PM_{10}	SO_2
Pre-project SSPE (SSPE1)	2381860	1542426	420546	175450	17811
Offset Threshold	20,000	200,000	20,000	29,200	54,750
Greater Than Offset Threshold?	Yes	Yes	Yes	Yes	Yes

Pursuant to Rule 2201, subsection 4.7.1, since the Pre-project SSPE is greater that the emission offset thresholds for all pollutants, the SSPE is calculated as the difference between PE2 and Baseline Emissions (BE) for each unit:

Emissions to be offset = PE2 – BE

Pursuant to Rule 2201, subsection 3.7.1.3, baseline emissions (BE) are equal to the pre-project potential to emit (PE1) for fully offset emission units. The KRCC emission units all emissions except for CO were fully offset at the time they were originally permitted under the provisions of the then existing Kern County APCD New Source Review rule (see pages 22 – 30 of engineering analysis for #4128001-008, dated 28 April 1983).

Therefore, BE = PE1 for NOx, VOC, PM_{10} and SO_2

From the pre and post-project potential to emit analysis above, PE1 = PE2 (see Section VII C.1 and 2., above).

Therefore, emissions to be offset for NOx, VOC, PM_{10} and SO_2 = 0

For CO, baseline emissions were obtained from continuous emissions monitoring records available from the facility continuous emissions monitoring system (CEMS). This data is included in Attachment B. The quantity of offsets required for CO are calculated below.

Table VII-13. Determination of CO Emission Offset Requirements, lb/yr

	CO
Post-project Potential to Emit (PE2)	770880
Baseline Emissions (S-88-3-10 & S-88-4-10 – see Attachment A)	66742
Required CO Offsets	704138

The applicant has provided an air quality impact analysis demonstrating that post-project CO emissions will not cause or contribute to a violation of the applicable CO ambient air quality standards. Pursuant to Section 4.6.1 of Rule 2201, the project is therefore exempt from CO emission offset requirements.

8. Major Source/Title I Modification

The increase in permitted emissions from this project is zero and less than the major source thresholds. Therefore, the project is not a Title I modification.

9. Public Notice

The project does not trigger public notification pursuant to Rule 2201, Section 5.4 because, the proposed modification is not considered a Title 1 modification, there is no increase in permitted emissions and no offsets are required.

VIII. COMPLIANCE

Rule 1080 *Stack Monitoring* (12/17/92)

This rule allows the APCO to request the installation and use of continuous emissions monitors (CEMs), and specifies performance standards for the equipment and administrative reporting, recordkeeping and violation and equipment breakdown notification requirements. The units are currently equipped with operational CEMs and permit conditions that meet the requirements of this rule.

Rule 1081 *Source Sampling* (12/16/93)
This rule requires adequate and safe facilities for use in sampling to determine compliance and specifies methods and procedures for source testing, sample collection and compliance determination. The existing operating permits already demonstrate compliance with the requirements of this rule for the HRSG stack. Additional stack sampling provisions will need to be installed on the bypass stack. CEMS extraction ports already exist at the bypass stack.

Rule 2201 *New and Modified Stationary Source Review* (12/19/02)

A summary of compliance with the relevant requirements of this rule is shown below.

Section 4.1.2 BACT:

This section requires BACT for modifications to existing emission units that result in an Adjusted Increase in Permitted Emissions (AIPE) greater than 2.0 pounds in any one day. As detailed in the Section VII calculations of this document the AIPE for each pollutant is less than 2 pounds per day, therefore, BACT is not required.

Section 4.5 Emissions Offsets Requirements:

This section provides the offset threshold levels for each pollutant. Since the original facility was fully offset for NOx, VOC, PM_{10} and SO_2 and there is no proposed increase in either maximum daily of maximum annual emissions, no offsets are required for NOx, VOC, PM_{10} and SO_2. (see section VII. C.6). The project is exempt from CO emission offset requirements pursuant to Section 4.6.1 of Rule 2201.

Section 4.14 Additional Source Requirements:

Section 4.14.2 Ambient Air Quality Standards

Modeling has been conducted that demonstrates that this project will not cause or make worse the violation of an AAQS. The results of the air quality modeling are presented below. The modeling demonstrates that maximum air quality impacts will actually decrease marginally relative to maximum air quality impacts under existing permit conditions. The analysis is summarized in Attachment C.

Table VIII-1. ISCST3 Modeling Results

Pollutant	Averaging Period	Maximum Modeled Impact ($\mu g/m^3$)	Background[b] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	AAQS ($\mu g/m^3$)	% of Standard
KRCC Impacts - Current						
CO	1-hour	239.8	11,764	12,004	23,000	52.2
	8-hour	30.9	6,266	6,297	10,000	63.0
NO_2	1-hour	239.8	145.4	385.2	470	82.0
	Annual	1.46	30.6	32.1	100	32.1
PM_{10}	24-hour	0.77	158	158.8	50	317.6
	Annual	0.11	47	47.1	30	157.0
SO_2	1-hour	0.86	79.9	80.8	655	12.3
	3-hour	0.39	79.9	80.3	1,300	6.2
	24-hour	0.08	16.8	16.9	105	16.1
	Annual	0.011	8.5	8.5	80	10.6
KRCC Impacts – After Project						
CO	1-hour	234.9	11,764	11,999	23,000	52.2
	8-hour	22.2	6,266	6,288	10,000	62.9
NO_2	1-hour	234.9	145.4	380.3	470	80.9
	Annual	0.82	30.6	31.4	100	31.4
PM_{10}	24-hour	0.73	158	158.7	50	317.4
	Annual	0.06	47	47.1	30	157.0
SO_2	1-hour	0.84	79.9	80.7	655	12.3
	3-hour	0.44	79.9	80.3	1,300	6.2
	24-hour	0.07	16.8	16.9	105	16.1
	Annual	0.006	8.5	8.5	80	10.6
Cumulative Impacts (KRCC after Project & Sycamore)						
CO	1-hour	265.5	11,764	12,030	23,000	52.3
	8-hour	42.0	6,266	6,308	10,000	63.1
NO_2	1-hour	265.5	145.4	410.9	470	87.4
	Annual	1.80	30.6	32.4	100	32.4
PM_{10}	24-hour	1.00	158	159	50	318.0
	Annual	0.13	47	47.1	30	157.0
SO_2	1-hour	0.95	79.9	80.9	655	12.4
	3-hour	0.48	79.9	80.4	1,300	6.2
	24-hour	0.11	16.8	16.9	105	16.1
	Annual	0.013	8.5	8.5	80	10.6

a Source: 40 CFR 52.21

b Background represents the maximum value measured at Oildale, 2000 - 2002.

AAQS = Most stringent ambient air quality standard for the averaging period.

Table VIII-2. Fumigation Impacts

Pollutant	SCREEN3 Inversion 1-hr Result [µg/m3]/[g/s]		Emission Rate Per Turbine (lb/hr)	Maximum Impact –4 Turbines (µg/m^3)	Background (µg/m^3)	Total (µg/m^3)	Lowest AAQS
	Simple Cycle	Cogeneration					
CO 1-hour	0.6392	1.817	140	86.7	11,764	11,851	23,000
NO_2 1-hour	0.6392	1.817	140	86.7	145.4	232.1	470
SO_2 1-hour	0.6392	1.817	0.5	0.31	79.9	80.2	655
SO_2 3-hour	0.6392	1.817	0.5	0.31	79.9	80.2	1,300

Section 4.14.3 Compliance by Other Owned, Operated, or Controlled Source

Since the project is not considered a Title 1 modification, no compliance certification is necessary.

Section 5.0 Administrative Requirements

Public notification is not required for this project.

Rule 2520 *Federally Mandated Operating Permits (06/21/2001)*

This project will require a minor permit modification to the existing Operating Permit.

Rule 2540 *Acid Rain Program (11/13/97)*

The existing units are exempt (are not “affected units”) from the acid rain program because they are considered “qualifying facility” under the provisions of 40 CFR 72.6 (b)(5). A “qualifying facility” is a facility that meets the efficiency criteria in 18 CFR 292.205, which for this facility are as follows:

- total useful thermal energy output (steam) must be greater than or equal to 5% of the total energy output
- total electrical energy output plus ½ of the thermal energy output must be greater than or equal to 42.5% of the total energy input

When the conversion to simple cycle is completed, the simple cycle units will no longer meet the definition of a “qualifying facility” since these units will no longer generate steam. As a result, these units will become affected units under the Acid Rain Program. Based on the Acid Rain Program guide (EPA 430-R-94-002), KRCC will need to take the following compliance actions:

- within 90 days after the facility fails to meet the definition of qualifying facility, the CEMS must be tested and conform with 40 CFR 75 requirements

- by March 1 of the year following the year during which the facility fails to meet the definition of qualifying facility, apply for an Acid Rain Permit
- by January 30 of the year after the unit is an affected facility, hold SO2 allowances.

Rule 4001 *NSPS Subpart GG – Standards of Performance for Stationary Gas Turbines (04/14/99)*

The turbines are subject to Subpart GG, which limits oxides of nitrogen and sulfur from stationary gas turbines. The current operating permits include NOx and SOx limits that meet the standards of Subpart GG. These operating permit limits will not be changed. Also, reporting and notification requirements specified in Subpart A are also contained in the current operating permits.

Rule 4101 *Visible Emissions (12/17/92)*

The current permit unit requirements limit visible emissions greater than 20% opacity (No. 1 Ringelmann) to periods less than three minutes in any one hour period.

Rule 4102 *Nuisance (12/17/92)*

The current facility has not generated any nuisance complaints. Operation of the turbines in simple cycle is not expected to result in any nuisance complaints.

Rule 4201 *Particulate Matter Concentration (12/17/92)*

Rule 4201 limits PM emissions from any source operation to less than 0.1 gr/dscf. The current operating permit limits PM emissions to less than 0.0072 gr/scf at 12% CO2 for each turbine. The proposed modifications will not alter this limit and compliance is expected.

Rule 4301 *Fuel Burning Equipment (12/17/92)*

Section 3.1 defines fuel burning equipment as “any furnace, boiler, apparatus, stack, and all appurtenances thereto, used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer”. The CTGs primarily produce power via mechanical means where the combustions gas is passed across the turbine blades to drive the turbine shaft, which, in turn, drives an electrical generator shaft to produce electricity. Because mechanical means are primarily used to produce electricity, the CTGs do not meet the definition of fuel burning equipment and this rule does not apply.

Rule 4703 *Stationary Gas Turbines (04/25/02)*

This rule limits NOx and CO emissions from stationary gas turbines.

Rule 4801 *Sulfur Compounds (12/17/92)*

Rule 4801 limits sulfur compound emission to 0.2% (2,000 ppm) dry volume. SOx emissions from the turbines are based on combusting natural gas with a fuel sulfur content limited by the operating permit at 0.3 gr/100 scf. This fuel S content (assuming 1020 Btu/scf, LHV) results in a SOx emission concentration of approximately 0.2 ppmvd @ 15% O2. This is in compliance with the 2,000 ppm limit.

Rule 8011 *General Requirements (11/15/01)*

This rule provides the definitions, exemptions, requirements and administrative requirements for all Rules in Regulation VIII.

Rule 8021 *Construction, Demolition, Excavation, Extraction and, Other Earthmoving Activities (11/15/01)*

The purpose of this rule is to minimize fugitive dust emissions associated with construction, demolition, excavation, extraction and other earthmoving activities. Because there will be no construction or any other earthmoving activities associated with this project, the project is exempt from this Rule.

CH&S Code, Sections 41700 and 44300 Air Toxics "Hot Spots"

This section of the California Health and Safety Code requires submittal of an air toxics "Hot Spot" information and assessment report for sources with criteria pollutant emissions greater than 10 tons per year. An exemption is allowed for facilities that have a District approved assessment of health risks that find that emissions from the facility will result in insignificant health risks.

Based on the previously submitted air toxics emissions inventory, health risks associated with the facility were found to be insignificant. Because this project will not cause a change in air toxics emissions at the facility, the heath risks will still be insignificant and no further action with regard to this regulation are required.

IX. RECOMMENDATION

Issue Authority to Construct subject to the permit conditions in Attachment A.

X. BILLING INFORMATION

Permit Number	Fee Schedule	Fee Rating	Annual Fee
S-88-3-10	3020-8B-A	75,000 kw	$ 8757
S-88-4-10	3020-8B-A	75,000 kw	$ 8757

Attachment A

Proposed Authority to Construct Conditions

URS

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-88-3-10 **EXPIRATION DATE:** 08/31/2004

EQUIPMENT DESCRIPTION:
75 MW OMAR HILL COGENERATION ***OR SIMPLE CYCLE*** UNIT #3

PERMIT UNIT REQUIREMENTS

1 CGT Shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District NSR Rule; 40 CFR 60.333(a); Kern County Rule 407] Federally Enforceable Through Title V Permit

2. Operator shall not exceed a NOx emission rate of (15 X EFF/25) ppmvd @ 15% 02, under load conditions, excluding thermal stabilization and reduced load periods, where EFF (efficiency) is the higher of EFF1 {100%x(3412 Btu/kW-hr)/(Actual Heat Rate at HHV, Btu/kW-hr)) or EFF2 {EFFmfr x (LHV/HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is - the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

3. Operator shall be required to conform to the compliance testing procedures described in District Rule 108 1. [Rule 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), Rule 110 (Madera), and Rule 108 (Kings); District Rule 108 1] Federally Enforceable Through Title V Permit

4. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072-80, D 3031-81, D 4084-82 or D 3246-81. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

5. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show. compliance. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit

6. The HHV and LHV of the fuel shall be determined using ASTM D3588-91, ASTM 1826-88, or ASTM 1945-81. [40 CFR 60.332(a),(b)] Federally Enforceable Through Title V Permit

7. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (02) concentrations, shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit

8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% 02 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit

9. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and 4703, 5.1.1] Federally Enforceable Through Title V Permit

10. Nitrogen oxides (NOx) and oxygen (02) concentrations shall be determined using EPA Method 20. The span values shall be 300 ppm of NOx and 21 percent 02. [40 CFR 60.335(c)(2),(3)] Federally Enforceable Through Title V Permit

11. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

12. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San. Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

13. Records shall be maintained and shall ~ contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations,:- checks, ~ adjustments, maintenance of any CEM's that have- been installed pursuant to District Rule 1080, and emission measurements. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

14. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

15. The operator of a stationary gas turbine system shall. maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

16. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. - [40 CFR 60.334(b),(c) and District Rule 4703, 5.0],Federally Enforceable Through Title V Permit

17. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 84-01, X.D.1] Federally Enforceable Through Title V Permit

18. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following subsumed requirements: Rules 402 (Madera) and 404. (Fresno, Kern Kings, Merced, San Joaquin, Stanislaus, Tulare); Rule 108.1 (Kings) and Rule 108 (in all seven remaining counties in the San Joaquin Valley); Rule 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); District Rule 4703, Section 6.2.2; District Rule 1080, 1.3; 40 CFR 60.333(a) and (b); 40 CFR 60.334 (b) and (c)(1). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

19. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: Rules 404 (Madera), 406 (Fresno), 407 (Kings, Merced, San Joaquin, Stanislaus, Tulare, Kern); District Rule 1081, 4201, 1080, Section 6.5, 7.2, 8.0, 9.0, and 10.0; 40 CFR 60.332(c) and (d); 60.334 (b), (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.21 Federally Enforceable Through Title V Permit

20. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: District Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

21. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following subsumed requirements: Rule 404 (Merced); 40 CFR 60.332 (b); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

22. Operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation, the exhaust gas NOx and 02 concentration. [40CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

23. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District the ARB, and the EPA.[Rule 108. (Kings, Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit.

24. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR, 60.334(c)(2)] Federally Enforceable Through Title V Permit

25. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080,.9.0] Federally Enforceable Through Title V Permit

26. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 10.0; PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

27. Operators of CEM's installed at-the direction of the APCO shall submit a written report for each, calendar quarter to the APCO and EPA. The report is due on the 30th day, following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and, cause of excess (if known), corrective actions taken and. preventive measures adopted, B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [Kern County Rule 108 and District Rule .1080, .8.0 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

28. The written report for each calendar quarter shall also include: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 84-01, X.E. [Kern County Rule 108; District Rule 1080, 8.0; PSD SJ 84- 01, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

29. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% 02. [District Rule 4703 and PSD SJ 84-01, X.B] Federally Enforceable Through Title V Permit

30. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District NSR Rule] Federally Enforceable Through Title V Permit

31. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District NSR Rule] Federally Enforceable Through Title V Permit

32. Exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

33. Bypass stack valve preceding each HRSG shall be designed to be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

34. Each CGT shall have a fuel consumption monitor/recorder. [District NSR Rule and PSD SJ 84-0 1, X.D.1] Federally Enforceable Through Title V Permit

35. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% C02. [District NSR Rule] Federally Enforceable Through Title V Permit

36. Each HRSG exhaust stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

37. Operational records (including but not limited to fuel characteristics, etc.) shall be -maintained by Kern River Cogeneration Company. [District NSR Rule] Federally Enforceable Through Title V Permit

~~38. This facility shall operate as a cogeneration facility pursuant to- Public Resources Code Section 25134 for thermally enhanced oil recovery operations unless prior District approval is granted to operate, otherwise. [District NSR, Rule] Federally Enforceable Through Title V Permit~~

39. Accurate records of NOx (as N02) and carbon monoxide (CO) flue gas concentrations corrected to 15% 02, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

40. The limit for NOx, except during the conditions of startup and shutdown, shall be 16.4 ppmv at 15%02 as N02 (3hr avg), 67.9 lb/hr (3hr avg) (1629.6 lb/dy) as N02 and 79.7 lb/hr as N02 (max lhr avg). [District Rules 4703 and NSR] Federally Enforceable Through Title V Permit

41. The limit for CO***, except during the conditions of startup and shutdown,*** shall be 25 ppmv at 15%02.(3-hr avg) or 44.0 lb/hr (3hr avg.)(1056 lb/dy). [District Rule 4703 and PSD SJ 84-01, X.E] Federally Enforceable Through Title V Permit

42. Daily Emissions for the unit maybe determined from the arithmetic mean -of three, 40-minute test, runs for NOx and CO, multiplied by th Through Title V Permit

43. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually 60 days prior to permit anniversary. [District Rule 1081] Federally Enforceable Through Title V Permit

44. Annual compliance tests shall be conducted -by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

45. Continuous emission monitoring system for NOx as N02 and continuous monitoring system for CO & C02 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational -whenever the turbine is in operation. [District Rule 1080 and PSD SJ 84-01, X.D. l and .2] Federally Enforceable Through Title V Permit

46. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 84-01 X.D.2] Federally Enforceable Through Title V Permit

47. Each 1-hour period in a 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

48. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD'SJ 84-01, X.D.5] Federally Enforceable Through Title V Permit

49. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

50. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

51. During hours of CGT startup or shutdown, emissions shall not exceed 140.0 lb/hr of NOx ***and 140.0 lb/hr of CO***averaged over a two (2) hour period and shall not exceed ~~1137.6~~ ***1629.7*** lb NOx/day ***and 1056 lb CO/day***. [District NSR Rule] Federally Enforceable Through Title V Permit

52. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time:period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

53. N02 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

54. Daily records of N02 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily, available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

55. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

56. The Regional Administrator shall be notified by-telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a nonnal manner which results in an increase in emissions above any allowable emissions. limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

57. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

58. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

59. Any requirements established by this permit for the gathering and reporting of information are not subject to review by the Office of Management and Budget (OMB) under the Paperwork Reduction Act (PRA) because this permit is not an "information collection request" within the meaning of 44 U.S.C. Subsections 3502(4) & (11), 3507, 3512, and 3518. Furthermore, this permit and any information gathering and reporting requirements established by this permit are exempt from OMB review under the PRA because it is directed to fewer than ten persons. [44 U.S.C. Section 3502(4), (11) and 5 CFR Section 1320.5(a) and PSD SJ 84- 01] Federally Enforceable Through Title V Permit

60. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gasses and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

61. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10 [PSD SJ 84-01] Federally Enforceable Through Title V Permit

62. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

63. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

64. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 84-01] Federally Enforceable Through Title V Permit

65. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

66. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

67. Maximum emission rates, except during conditions of startup and shutdown, shall not exceed: PM10, 5.0 lb/hr; SOx, 0.5 lb/hr as S02, 0.6 lb/hr as S04; VOC's, 12.0 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit

68. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

69. Conditions 70 through 85 of this Permit shall only apply to this unit in the event that it becomes an affected source pursuant to 40 CFR 72.6 by converting to simple cycle operation and no longer satisfying the definition of a qualifying cogeneration facility pursuant to 18 CFR 292.205. The APCO shall be notified within 30 days of the unit no longer satisfying the definition of

qualifying cogeneration facility status. [40 CFR Part 72, 40 CFR Part 75, 40 CFR Part 77] Federally Enforceable Through Title V Permit

70. By March 1 of the year following the year that the unit becomes an affected source, the Owners and operators of each affected source and each affected unit at the source shall: (i) Submit and operate the unit in compliance with a complete Acid Rain permit application; and (ii) obtain an Acid Rain permit in a timely manner. [40 CFR Part 72] Federally Enforceable Through Title V Permit

71. The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75 within 90 days of becoming an affected source. [40 CFR Part 75] Federally Enforceable Through Title V Permit

72. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR Part 75] Federally Enforceable Through Title V Permit

73. By January 30 of the year following the year the unit becomes an affected source, the owners and operators of each source and each affected unit at the source shall: (i) hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR Part 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR Part 73] Federally Enforceable Through Title VPermit

74. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40.CFR Part 77] Federally Enforceable Through Title V Permit

75. An affected unit shall be subject to the sulfur dioxide requirements starting on the later of January 1, 2000, or the deadline for monitoring certification under 40 CFR part 75. [40 CFR Part 72,40 CFR Part 75] Federally Enforceable Through Title V Permit

76. Allowances shall be held in, deducted from, or transferred among Allowance Trackng System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title' V Permit

77. An allowance shall not be deducted in order to comply with the requirements under 40 CFR Part 73, prior to the calendar year for which the allowance was allocated. [40 CFR Part 73.1 Federally Enforceable Through Title V Permit

78. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR Part 72.7 and Part 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR Part 72] Federally Enforceable Through Title V Permit

79. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR Part 72] Federally Enforceable Through Title V Permit

80. Within 90 days of becoming an affected source, the owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides. [40 CFR Part 72] Federally Enforceable Through Title V Permit

81. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR -Part 77. [40 CFR Part 77] Federally Enforceable Through TitleV Permit

82. The owners and operators of an affected unit that has excess emissions in. any Calendar year shall: (i) pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR Part 771 Federally Enforceable Through Title V Permit

83. The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created, This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with

40 CFR Part 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative. [40 CFR Part 72] Federally Enforceable Through Title V Permit

84. The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR Part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program. [40 CFR Part 72,40 CFR Part 75] Federally Enforceable Through Title V Permit

85. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 75 Subpart 1. (40 CFR Part 75.1 Federally Enforceable Through Title V Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: S-88-4-10 **EXPIRATION DATE:** 08/31/2004

EQUIPMENT DESCRIPTION:
75 MW OMAR HILL COGENERATION ***OR SIMPLE CYCLE*** UNIT #4

PERMIT UNIT REQUIREMENTS

1 CGT Shall be fired on natural gas only. There shall be no provisions for oil firing. Natural gas used as fuel shall be pipeline quality with sulfur content of 0.3 gr/100 scf or less (0.001% sulfur by weight). [District NSR Rule; 40 CFR 60.333(a); Kern County Rule 407] Federally Enforceable Through Title V Permit

2. Operator shall not exceed a NOx emission rate of (15 X EFF/25) ppmvd @ 15% 02, under load conditions, excluding thermal stabilization and reduced load periods, where EFF (efficiency) is the higher of EFF1 {100%x(3412 Btu/kW-hr)/(Actual Heat Rate at HHV, Btu/kW-hr)) or EFF2 {EFFmfr x (LHV/HHV)} where actual heat rate is a ratio of the heat input to power output taking into account the manufacturer's listed turbine efficiency, HHV is the higher heating value of the fuel, LHV is - the lower heating value of the fuel, and EFFmfr is the manufacturer's continuous rated percent efficiency of the gas turbine with air pollution equipment at LHV. An EFF that is less than 25 shall be assigned a value of 25. [40 CFR 60.332(a)(1) & 60.332(a)(2) and District Rule 4703, 5.1.1] Federally Enforceable Through Title V Permit

3. Operator shall be required to conform to the compliance testing procedures described in District Rule 108 1. [Rule 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus), Rule 110 (Madera), and Rule 108 (Kings); District Rule 108 1] Federally Enforceable Through Title V Permit

4. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072-80, D 3031-81, D 4084-82 or D 3246-81. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit

5. If the turbine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show. compliance. [40 CFR 60.334(b)(2)] Federally Enforceable Through Title V Permit

6. The HHV and LHV of the fuel shall be determined using ASTM D3588-91, ASTM 1826-88, or ASTM 1945-81. [40 CFR 60.332(a),(b)] Federally Enforceable Through Title V Permit

7. Nitrogen oxides (NOx) concentrations shall be determined using EPA Method 7E or 20, and oxygen (02) concentrations, shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit

8. The operator shall provide source test information annually regarding the exhaust gas NOx concentration corrected to 15% 02 (dry). [40 CFR 60.332(a),(b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit

10. The operator shall provide source test information annually regarding the demonstrated percent efficiency (EFF) as defined in District Rule 4703, 5.1.1. [40 CFR 60.332(a),(b) and 4703, 5.1.1] Federally Enforceable Through Title V Permit

10. Nitrogen oxides (NOx) and oxygen (02) concentrations shall be determined using EPA Method 20. The span values shall be 300 ppm of NOx and 21 percent 02. [40 CFR 60.335(c)(2),(3)] Federally Enforceable Through Title V Permit

11. Operations during periods of startup and shutdown shall not constitute representative conditions for the purpose of a NOx performance test nor shall NOx emissions in excess of the level of the emission limit shown in this permit during periods of startup and shutdown be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)] Federally Enforceable Through Title V Permit

12. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.1.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [Rule 108 (Kings, Fresno, Merced San. Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.2] Federally Enforceable Through Title V Permit

13. Records shall be maintained and shall ~ contain: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations,:- checks, ~ adjustments, maintenance of any CEM's that have- been installed pursuant to District Rule 1080, and emission measurements. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera); District Rule 1080, 7.3 and 40 CFR 60.7(b)] Federally Enforceable Through Title V Permit

14. If the turbine is fired on PUC-regulated natural gas, then maintain on file copies of natural gas bills. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

15. The operator of a stationary gas turbine system shall. maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.5.2] Federally Enforceable Through Title V Permit

16. Results of continuous emission monitoring must be averaged in accordance with the requirements of 40 CFR 60.13. - [40 CFR 60.334(b),(c) and District Rule 4703, 5.0],Federally Enforceable Through Title V Permit

17. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation and quantity of fuel used. [40 CFR 60.332(b); District Rules 2520, 9.4.2 and 4703, 6.2.4; PSD SJ 84-01, X.D.1] Federally Enforceable Through Title V Permit

18. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following subsumed requirements: Rules 402 (Madera) and 404. (Fresno, Kern Kings, Merced, San Joaquin, Stanislaus, Tulare); Rule 108.1 (Kings) and Rule 108 (in all seven remaining counties in the San Joaquin Valley); Rule 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); District Rule 4703, Section 6.2.2; District Rule 1080, 1.3; 40 CFR 60.333(a) and (b); 40 CFR 60.334 (b) and (c)(1). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

19. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: Rules 404 (Madera), 406 (Fresno), 407 (Kings, Merced, San Joaquin, Stanislaus, Tulare, Kern); District Rule 1081, 4201, 1080, Section 6.5, 7.2, 8.0, 9.0, and 10.0; 40 CFR 60.332(c) and (d); 60.334 (b), (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.21 Federally Enforceable Through Title V Permit

20. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: District Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, and 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

21. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following subsumed requirements: Rule 404 (Merced); 40 CFR 60.332 (b); 60.335(a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

22. Operator shall install, operate and maintain in calibration a system which continuously measures and records: control system operating parameters, elapsed time of operation, the exhaust gas NOx and 02 concentration. [40CFR 60.334(b),(c) and District Rules 2520, 9.4.2 and 4703] Federally Enforceable Through Title V Permit

23. The continuous NOx monitoring system shall meet the performance specification requirements in 40 CFR 60, Appendix F, 40 CFR 51, Appendix P, and Part 60, Appendix B, or shall meet equivalent specifications established by mutual agreement of the District the ARB, and the EPA.[Rule 108. (Kings, Fresno, Merced, San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 6.7] Federally Enforceable Through Title V Permit.

25. Operator shall submit a semiannual report listing any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8% by weight. [40 CFR, 60.334(c)(2)] Federally Enforceable Through Title V Permit

25. A violation of NOx emission standards indicated by the NOx CEM shall be reported by the operator to the APCO within 96 hours. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080,.9.0] Federally Enforceable Through Title V Permit

26. The APCO shall be notified no later than eight hours after the detection of a breakdown of the CEM. The operator shall inform the APCO of the intent to shut down the CEM at least 24 hours prior to the event. [Rule 108 (Kings, Fresno, Merced San Joaquin, Tulare, Kern, and Stanislaus) and Rule 109 (Madera) and District Rule 1080, 10.0; PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

27. Operators of CEM's installed at-the direction of the APCO shall submit a written report for each, calendar quarter to the APCO and EPA. The report is due on the 30th day, following the end of the calendar quarter and shall include: A. time intervals, data and magnitude of excess emissions (computed in accordance with 40 CFR 60.13(h)), nature and, cause of excess (if known), corrective actions taken and. preventive measures adopted, B. averaging period used for data reporting corresponding to the averaging period specified in the emission test period used to determine compliance with an emission standard. [Kern County Rule 108 and District Rule .1080, .8.0 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

28. The written report for each calendar quarter shall also include: C. applicable time and date of each period during which the CEM was inoperative (except for zero and span checks) and the nature of system repairs and adjustments; D. a negative declaration when no excess emissions occurred. Excess emissions shall be defined as any 3-hour period during which the average emissions for CO, as measured by the CEM system, exceeds the emission limit set forth in PSD SJ 84-01, X.E. [Kern County Rule 108; District Rule 1080, 8.0; PSD SJ 84- 01, X.D.3 and X.D.5.a through e] Federally Enforceable Through Title V Permit

29. The CGT combustors shall be a dry low NOx design capable of achieving 16.4 ppm or lower at 15% 02. [District Rule 4703 and PSD SJ 84-01, X.B] Federally Enforceable Through Title V Permit

30. Each CGT shall have a maximum heat input rate of 1020 MMBTU/hr on an LHV basis. Firing rate can be increased upon District witnessed emission sampling demonstration that compliance with emission sampling limits can be achieved at higher fuel rates. [District NSR Rule] Federally Enforceable Through Title V Permit

31. Permit unit shall include one unfired heat recovery steam generator (HRSG) for gas turbine engine assembly with rated steam output of 450,000 lb/hr at 80% quality steam production. [District NSR Rule] Federally Enforceable Through Title V Permit

32. Exhaust gas ducting from CGT's through HRSG's to the atmosphere shall be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

33. Bypass stack valve preceding each HRSG shall be designed to be gas-tight. [District NSR Rule] Federally Enforceable Through Title V Permit

34. Each CGT shall have a fuel consumption monitor/recorder. [District NSR Rule and PSD SJ 84-0 1, X.D.1] Federally Enforceable Through Title V Permit

35. Exhaust gas particulate matter concentration shall not exceed 0.0072 gr/scf calculated at 12% C02. [District NSR Rule] Federally Enforceable Through Title V Permit

36. Each HRSG exhaust stack shall be equipped with permanent stack sampling provisions consistent with District Rule 1081, EPA reference Methods 5 and 8 and OSHA requirements. [District Rule 1081] Federally Enforceable Through Title V Permit

37. Operational records (including but not limited to fuel characteristics, etc.) shall be -maintained by Kern River Cogeneration Company. [District NSR Rule] Federally Enforceable Through Title V Permit

~~38. This facility shall operate as a cogeneration facility pursuant to- Public Resources Code Section 25134 for thermally enhanced oil recovery operations unless prior District approval is granted to operate, otherwise. [District NSR, Rule] Federally Enforceable Through Title V Permit~~

39. Accurate records of NOx (as N02) and carbon monoxide (CO) flue gas concentrations corrected to 15% 02, dry and CGT fuel sulfur content shall be maintained and shall be reported as described by District Rule 1080 and upon request. [District Rule 1080] Federally Enforceable Through Title V Permit

41. The limit for NOx, except during the conditions of startup and shutdown, shall be 16.4 ppmv at 15%02 as N02 (3hr avg), 67.9 lb/hr (3hr avg) (1629.6 lb/dy) as N02 and 79.7 lb/hr as N02 (max lhr avg). [District Rules 4703 and NSR] Federally Enforceable Through Title V Permit

41. The limit for CO***, except during the conditions of startup and shutdown,*** shall be 25 ppmv at 15%02.(3-hr avg) or 44.0 lb/hr (3hr avg.)(1056 lb/dy). [District Rule 4703 and PSD SJ 84-01, X.E] Federally Enforceable Through Title V Permit

42. Daily Emissions for the unit maybe determined from the arithmetic mean -of three, 40-minute test, runs for NOx and CO, multiplied by th Through Title V Permit

43. Source testing to determine NOx and CO emissions and fuel gas sulfur content shall be conducted annually 60 days prior to permit anniversary. [District Rule 1081] Federally Enforceable Through Title V Permit

44. Annual compliance tests shall be conducted -by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1081] Federally Enforceable Through Title V Permit

45. Continuous emission monitoring system for NOx as N02 and continuous monitoring system for CO & C02 shall serve each CGT flue gas stream, shall conform to SJVUAPCD Rule 1080 specifications, shall meet EPA monitoring performance specifications, & shall be operational -whenever the turbine is in operation. [District Rule 1080 and PSD SJ 84-01, X.D. l and .2] Federally Enforceable Through Title V Permit

46. All continuous emissions monitoring systems shall be calibrated and operated according to EPA guidelines as specified in 40 CFR 60, Appendix B and 40 CFR 52, Appendix E. CEM ppm and lb/hr shall be calculated as a three-hour and a 1-hour average. [District Rule 1080 and PSD SJ 84-01 X.D.2] Federally Enforceable Through Title V Permit

47. Each 1-hour period in a 3-hour average will commence on the hour. The 3-hour average will be compiled from the three most recent 1-hour periods. [District Rule 1080] Federally Enforceable Through Title V Permit

48. Quarterly continuous emission monitoring system reports shall be submitted to the District, EPA and CEC, as required by EPA regulations as specified in CFR Title 40, Part 58, Appendix B and Part 60 Appendix B. [District Rule 1080 and PSD'SJ 84-01, X.D.5] Federally Enforceable Through Title V Permit

49. Audits of continuous emission monitoring system shall be conducted in accordance with EPA guidelines, witnessed at the District's discretion, and reports shall be submitted to the District within 60 days of such an audit. [District Rule 1080 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

50. The Relative Accuracy Audit shall be conducted by an independent laboratory in accordance with EPA guidelines, witnessed or authorized by the District. Results shall be submitted to the District within 60 days. [District Rule 1080 and PSD SJ 84-01, X.D.3] Federally Enforceable Through Title V Permit

82. During hours of CGT startup or shutdown, emissions shall not exceed 140.0 lb/hr of NOx ***and 140.0 lb/hr of CO***averaged over a two (2) hour period ~~and shall not exceed 1137.6 lb NOx/day~~. [District NSR Rule] Federally Enforceable Through Title V Permit

52. Startup and shutdown of CGT, as defined in 40 CFR, Subpart A 60.2, shall not exceed a time:period of two hours and two hours, respectively, per occurrence. [40 CFR 60.8] Federally Enforceable Through Title V Permit

53. N02 and CO daily emissions during days of startup/shutdown shall be calculated from natural gas combustion rates and CEM results. [District Rule 1080] Federally Enforceable Through Title V Permit

54. Daily records of N02 and CO emission calculations during days of gas turbine startup/shutdown shall be maintained and such records shall be made readily, available for District inspection upon request for a period of five years. [District Rule 1080] Federally Enforceable Through Title V Permit

55. All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of this permit shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

56. The Regional Administrator shall be notified by-telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a nonnal manner which results in an increase in emissions above any allowable emissions. limit stated in this permit. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

57. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the conditions of this permit, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

58. The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

59. Any requirements established by this permit for the gathering and reporting of information are not subject to review by the Office of Management and Budget (OMB) under the Paperwork Reduction Act (PRA) because this permit is not an "information collection request" within the meaning of 44 U.S.C. Subsections 3502(4) & (11), 3507, 3512, and 3518. Furthermore, this permit and any information gathering and reporting requirements established by this permit are exempt from OMB review under the PRA because it is directed to fewer than ten persons. [44 U.S.C. Section 3502(4), (11) and 5 CFR Section 1320.5(a) and PSD SJ 84- 01] Federally Enforceable Through Title V Permit

60. At such times as specified by the USEPA, permittee shall conduct or cause to be conducted performance tests (as described in 40 CFR 60.8) for CO on the exhaust stack gasses and furnish the District, the California ARB and the USEPA a written report of the results of such tests. All performance tests shall be conducted on an annual basis and at the maximum operating capacity of the emissions unit being tested. Upon written request from permittee, and adequate justification, USEPA may waive a specific annual test and/or allow for testing to be done at less than maximum operating capacity. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

61. Performance tests for the emissions of CO shall be conducted and results reported in accordance with the test methods set forth in 40 CFR 60.8 and 40 CFR 60, Appendix A. The performance tests for the emissions of CO shall be conducted using EPA Methods 1 through 4 and 10 [PSD SJ 84-01] Federally Enforceable Through Title V Permit

62. The USEPA shall be notified in writing at least 30 days in advance of such test to allow time for development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval shall minimize the possibility of USEPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from the USEPA. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

63. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limit for the purposes of this permit. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

64. For performance test purposes, sampling ports, platforms, and access shall be provided by the facility on the emission unit exhaust system in accordance with 40 CFR 60.8(e). [PSD SJ 84-01] Federally Enforceable Through Title V Permit

65. The cogeneration facility is subject to the federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The owner or operator shall meet all applicable requirements of Subparts A and GG of this regulation. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

66. All correspondence as required by this permit shall be forwarded to: a) Director, Enforcement Div (Attn: A-5), EPA Region IX, 75 Hawthorne Street, San Francisco, CA, 94105; b) Chief, Stationary Source Control Division, California Air Resource Board, P.O. Box 2815, Sacramento, CA, 95814; c) Director, SJVUAPCD, 1990 East Gettysburg, Fresno, CA, 93726-0244; and d) the California Energy Commission, 1516 Ninth Street, Sacramento, CA, 95814-5512. [PSD SJ 84-01] Federally Enforceable Through Title V Permit

67. Maximum emission rates, except during conditions of startup and shutdown, shall not exceed: PM10, 5.0 lb/hr; SOx, 0.5 lb/hr as S02, 0.6 lb/hr as S04; VOC's, 12.0 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit

68. The operator shall perform source testing for PM10 concentration and emission rate once per permit term using EPA Method 5. [40 CFR 60.8 (b) and (c)] Federally Enforceable Through Title V Permit

69. Conditions 70 through 85 of this Permit shall only apply to this unit in the event that it becomes an affected source pursuant to 40 CFR 72.6 by converting to simple cycle operation and no longer satisfying the definition of a qualifying cogeneration facility

pursuant to 18 CFR 292.205. The APCO shall be notified within 30 days of the unit no longer satisfying the definition of qualifying cogeneration facility status. [40 CFR Part 72, 40 CFR Part 75, 40 CFR Part 77] Federally Enforceable Through Title V Permit

70. By March 1 of the year following the year that the unit becomes an affected source, the Owners and operators of each affected source and each affected unit at the source shall: (i) Submit and operate the unit in compliance with a complete Acid Rain permit application; and (ii) obtain an Acid Rain permit in a timely manner. [40 CFR Part 72] Federally Enforceable Through Title V Permit

71. The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75 within 90 days of becoming an affected source. [40 CFR Part 75] Federally Enforceable Through Title V Permit

72. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program. [40 CFR Part 75] Federally Enforceable Through Title V Permit

73. By January 30 of the year following the year the unit becomes an affected source, the owners and operators of each source and each affected unit at the source shall: (i) hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR Part 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) comply with the applicable Acid Rain emissions limitations for sulfur dioxide. [40 CFR Part 73] Federally Enforceable Through Title VPermit

74. Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act. [40.CFR Part 77] Federally Enforceable Through Title V Permit

75. An affected unit shall be subject to the sulfur dioxide requirements starting on the later of January 1, 2000, or the deadline for monitoring certification under 40 CFR part 75. [40 CFR Part 72,40 CFR Part 75] Federally Enforceable Through Title V Permit

76. Allowances shall be held in, deducted from, or transferred among Allowance Trackng System accounts in accordance with the Acid Rain Program. [40 CFR Part 72] Federally Enforceable Through Title' V Permit

77. An allowance shall not be deducted in order to comply with the requirements under 40 CFR Part 73, prior to the calendar year for which the allowance was allocated. [40 CFR Part 73.1 Federally Enforceable Through Title V Permit

78. An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR Part 72.7 and Part 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. [40 CFR Part 72] Federally Enforceable Through Title V Permit

79. An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right. [40 CFR Part 72] Federally Enforceable Through Title V Permit

80. Within 90 days of becoming an affected source, the owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides. [40 CFR Part 72] Federally Enforceable Through Title V Permit

83. The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR -Part 77. [40 CFR Part 77] Federally Enforceable Through TitleV Permit

82. The owners and operators of an affected unit that has excess emissions in. any Calendar year shall: (i) pay without demand the penalty required, and pay up on demand the interest on that penalty; and (ii) comply with the terms of an approved offset plan, as required by 40 CFR Part 77. [40 CFR Part 771 Federally Enforceable Through Title V Permit

83. The owners and operators of the each affected unit at the source shall keep on site the following documents for a period of five years from the date the document is created, This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority: (i) The certificate of representation for the designated representative for

the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR Part 72.24; provided that the certificate and documents shall be retained on site beyond such five-year period until such documents are superceded because of the submission of a new certificate of representation changing the designated representative. [40 CFR Part 72] Federally Enforceable Through Title V Permit

84. The owners and operators of each affected unit at the source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time prior to the end of five years, in writing by the Administrator or permitting authority; (ii) All emissions monitoring information, in accordance with 40 CFR Part 75; (iii) Copies of all reports, compliance certifications and other submissions and all records made or required under the Acid Rain Program; (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission that demonstrates compliance with the requirements of the Acid Rain Program. [40 CFR Part 72,40 CFR Part 75] Federally Enforceable Through Title V Permit

85. The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 75 Subpart 1. (40 CFR Part 75.1 Federally Enforceable Through Title V Permit

Attachment B

Baseline Emissions (CEMS Data)

URS

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Nov01	1	496.1595	856.2971191	3.385542	14.87643	1.32879376	1.301488638	0.003214509	2.755222797	66.12535	9.525399208	9.330060005	0.03785491	32.4163628	777.9926758	24	20551.13086
	2	497.6347	858.8433838	3.376005	14.89342	1.42943001	1.403677106	0.0034669	2.978821278	71.49171	9.51474762	9.346143723	0.037920166	32.5674057	781.6176758	24	20612.24121
	3	497.1814	858.0610352	3.38071	14.88503	1.61496544	1.582986593	0.003909771	3.357275009	80.5746	9.283901215	9.106669426	0.036948558	31.7052994	760.9271851	24	20593.46484
	4	494.1733	852.8692017	3.384653	14.87802	1.44500959	1.415358305	0.003495749	2.981744051	71.56186	9.238591194	9.051577568	0.036725033	31.321846	751.7243042	24	20468.86084
	5	491.7667	848.7157593	3.350387	14.93899	0.89849722	0.887508035	0.002192029	1.860100031	42.7823	9.206613541	9.113010406	0.036974285	31.3733177	721.5863037	24	20369.17822
	6	493.819	852.2575684	3.369644	14.90472	1.01766038	0.998673618	0.00246659	2.104125023	50.499	9.243519783	9.099235535	0.036918391	31.4706078	755.2946167	24	20454.18164
	7	499.7387	862.4752808	3.367737	14.90812	1.07012475	1.053054452	0.002600908	2.24395299	53.85487	9.430484772	9.286150932	0.037676778	32.4969177	779.9260254	24	20699.40674
	8	498.0742	859.6019287	3.358071	14.92533	1.53197408	1.510692	0.003731213	3.209085941	77.01806	9.296462059	9.181300163	0.037251368	32.0221176	768.5308228	24	20630.44629
	9	496.5829	857.0274048	3.364365	14.91413	1.12481451	1.109646916	0.002740682	2.355553389	56.53328	9.521900177	9.385967255	0.038081758	32.6381035	783.3145142	24	20568.65772
	10	494.7919	853.9360962	3.356225	14.9286	0.85279256	0.842037201	0.002079722	1.771515369	42.51637	9.454968452	9.341813087	0.037902612	32.3783379	777.0800781	24	20494.46631
	11	492.1259	849.336853	3.376577	14.89238	1.41257918	1.386423349	0.003424283	2.910508633	69.85221	8.922211647	8.762404442	0.035551772	30.1963749	724.7130127	24	20384.08447
	12	493.3627	851.47052	3.362994	14.91657	0.94892985	0.935262084	0.002309978	1.967126489	45.24391	9.217230797	9.088875771	0.036876369	31.407856	722.3806763	24	20435.29248
	13	500.1037	863.105835	3.357371	14.92657	1.06535626	1.052173734	0.002598735	2.241840839	53.80418	9.284537315	9.170433998	0.037207268	32.1132584	770.7182007	24	20714.54004
	14	498.9372	861.0906372	3.361759	14.91877	1.26599336	1.24857986	0.00308383	2.658889532	63.81335	9.370071411	9.242910385	0.037501331	32.2920075	775.0081787	24	20666.17529
	15	496.3187	856.5722656	3.365065	14.91288	1.77299511	1.745556951	0.004311298	3.687988758	88.51173	9.462601662	9.325427055	0.037836131	32.4108124	777.8594971	24	20557.73437
	16	492.4859	849.9579468	3.385925	14.87575	1.89143956	1.854815006	0.004581147	3.897837162	93.54809	9.263233185	9.073303223	0.036813185	31.2923622	751.0167236	24	20398.99072
	17	107.437	494.453125	2.028386	11.48553	18.0725403	94.33091736	0.232984647	16.39455605	147.551	6.11433363	7.421804428	0.030112499	19.8434486	178.5910339	7.380556	3649.339031
	18	501.2854	865.1446533	3.394764	14.86003	1.75105631	1.71062839	0.004225028	3.656018734	87.74445	9.734781265	9.509279251	0.038582072	33.3793831	801.1052246	24	20763.47168
	19	501.6513	865.7751465	3.376333	14.89282	1.63259089	1.602571249	0.003958142	3.428698778	78.86007	9.262025833	9.095135689	0.036901757	31.9530296	734.9196777	24	20778.60352
	20	502.5688	867.3588257	3.349613	14.94037	1.47315121	1.457282901	0.003599301	3.124725342	74.99341	8.700299263	8.610594749	0.034935825	30.3348732	697.7020874	24	20816.61182
	21	500.7198	864.1678467	3.344525	14.94942	1.25438845	1.24275434	0.003069442	2.656870365	63.76489	10.64559555	10.55638313	0.042830527	37.0091095	888.2186279	24	20740.02832
	22	498.8048	860.8631592	3.369519	14.90495	1.30255961	1.28036952	0.003162348	2.726009607	65.42423	10.12413788	9.968459129	0.040445115	34.8026085	835.2625732	24	20660.71582
	23	505.1266	871.7730103	3.370217	14.9037	1.3671087	1.343446612	0.003318137	2.896537542	69.5169	10.07611752	9.915866852	0.04023172	35.0673218	841.6157227	24	20922.55225
	24	499.1402	861.4416504	3.362331	14.91773	1.01400435	1.000826597	0.00247191	2.133038044	51.19291	10.30251694	10.16426182	0.041239541	35.5256615	852.6159058	24	20674.59961
	25	512.1266	883.8539429	3.384399	14.87847	1.44803119	1.418614984	0.003503795	3.097400427	74.33761	10.27785873	10.07028389	0.040858217	36.1128235	866.7078247	24	21212.49463
	26	514.0467	887.1680298	3.349612	14.94037	1.36615408	1.350094199	0.003334558	2.961406708	71.07376	10.26245022	10.16079044	0.041225456	36.5725136	877.7402954	24	21292.03272
	27	516.4504	891.3167114	3.333678	14.96872	1.70350456	1.694555044	0.004185329	3.729315519	82.04494	10.29092693	10.23684502	0.041534003	36.9988556	813.9747925	24	21391.60107
	28	510.4372	880.9381104	3.3261	14.9822	1.72814763	1.723272562	0.00425626	3.760858774	86.49975	10.45546913	10.42498302	0.042297333	37.283577	857.5222778	24	21142.51465
	29	500.4286	863.6652222	3.340455	14.95666	1.94565308	1.912757397	0.00472426	4.089452267	98.14686	10.29471684	10.22824955	0.041499164	35.8340302	860.0167236	24	20727.96533
	30	506.0251	873.3234253	3.370537	14.90314	1.65312088	1.617494106	0.003995	3.492484808	83.81963	9.99217701	9.831979752	0.039891377	34.8375206	836.1005249	24	20959.76221
Dec01	01	505.0445	871.6307373	3.34052	14.95655	0.85263437	0.846265316	0.002090164	1.82227695	43.73465	10.15402699	10.08088493	0.040901273	35.6575279	855.7807007	24	20919.1377
	02	440.5881	793.449707	3.091322	14.03688	1.33181965	1.402204514	0.003463261	2.775906563	63.84585	9.590506554	10.08705997	0.040926304	33.0100517	759.2312012	23	18249.34326
	03															0	0
	04															0	0
	05															0	0
	06															0	0
	07															0	0
	08															0	0
	09															0	0
	10															0	0
	11	161.5575	836.4736328	3.230882	15.1516	14.6319895	27.82637787	0.068727516	20.12494659	160.9996	11.3696003	11.76172447	0.047720939	39.3709488	314.9675903	7.9	6608.141779
	12	517.1558	892.5354004	3.371489	14.90145	1.15820241	1.13928616	0.00281389	2.511244535	60.26987	11.8041172	11.60904598	0.047101442	42.0461006	1009.106384	24	21420.84961
	13	514.544	888.0263062	3.342171	14.9536	1.08824944	1.078992248	0.00266497	2.369557381	56.86938	11.67454624	11.58439541	0.047001462	41.7347908	1001.63501	24	21312.63135
	14	513.9203	886.9500732	3.341218	14.9553	0.915115	0.908506393	0.002243893	1.9904809	47.77154	12.08488369	11.99392891	0.048663154	43.16465	1035.95166	24	21286.80176
	15	518.0873	894.1426392	3.382681	14.88153	0.95470196	0.93557328	0.002310744	2.068352938	49.64047	11.9053793	11.67135429	0.047354266	42.3445244	1016.268616	24	21459.42334
	16	516.3354	891.1176758	3.381601	14.88346	1.00812185	0.988447189	0.002441336	2.1760571	52.22537	11.44957924	11.22701645	0.045551427	40.5982666	974.3583984	24	21386.82422
	17	506.8821	874.8027344	3.371171	14.90201	0.88681579	0.872060359	0.002153875	1.886391282	45.27339	11.2680254	11.08503342	0.044975396	39.3515511	944.4371948	24	20995.26563
	18	511.0463	881.9904785	3.385798	14.87597	1.10303617	1.080213428	0.002667981	2.354030371	56.49673	10.96578312	10.74000454	0.043575551	38.4340515	922.4171753	24	21167.77148
	19	507.7836	876.3578491	3.382107	14.88254	1.19047654	1.166524291	0.002881162	2.532329082	60.7759	11.25784969	11.03837109	0.04478604	39.2386246	941.7269897	24	21032.58838
	20	462.9397	798.960083	3.124873	14.03397	1.81735003	4.080681801	0.01007876	3.679265976	88.30238	10.88407612	11.0909853	0.044999521	37.4219704	898.1272583	24	19175.04199
	21	508.412	877.4436035	3.420965	14.81343	0.86360383	0.836933434	0.002067115	1.814512968	43.54831	11.38901234	11.04061699	0.044795167	39.3036652	943.2880249	24	21058.64648
	22	505.1621	871.8347168	3.411806	14.82969	0.87250656	0.847094178	0.002092212	1.827635407	43.86325	11.35578346	11.03820038	0.044785418	39.0403175	936.9675903	24	20924.0332
	23	509.4142	879.1741943	3.410218	14.83253	0.97107702	0.943956196	0.002331448	2.051011562	49.22428	11.09886265	10.79268742	0.043789301	38.4979095	923.9498291	24	21100.18066

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	512.4343	884.3850098	3.401284	14.84844	0.99753815	0.972350001	0.002401577	2.12437439	48.86061	11.12272644	10.84407425	0.043997742	38.9009171	894.7211304	24	21225.24023
	25	511.4945	882.7634277	3.401697	14.84769	1.09667635	1.068887949	0.002640013	2.331432104	55.95437	11.08869171	10.81112099	0.043864064	38.7272301	929.4534912	24	21186.32227
	26	515.192	889.1451416	3.425226	14.80583	1.2272017	1.187902093	0.002933962	2.609797478	62.63514	11.38217545	11.01966286	0.044710129	39.755043	954.1210327	24	21339.4834
	27	503.6539	869.2315674	3.402333	14.84655	0.95629132	0.931006551	0.002299465	2.003875494	48.09301	11.40713787	11.11779213	0.045108266	39.214489	941.1477051	24	20861.55762
	28	496.9976	857.7432861	3.399724	14.85122	0.86519361	0.843160689	0.002082495	1.788269997	42.91848	11.17660809	10.90464973	0.0442435	37.9458466	910.7003174	24	20585.83887
	29	497.1234	857.9613647	3.422174	14.81128	0.94882005	0.919264555	0.002270465	1.94931829	46.78364	10.94591236	10.60694599	0.043035664	36.921917	886.1259766	24	20591.07275
	30	497.6973	858.9523926	3.419438	14.81612	0.96551377	0.936027229	0.002311866	1.986865878	47.68478	10.80601215	10.47984123	0.042519964	36.521492	876.5158081	24	20614.85742
	31	496.7631	857.3403931	3.392857	14.86341	0.98411435	0.961395979	0.002374522	2.03704834	48.88916	10.7477169	10.50515842	0.042622644	36.541523	876.996521	24	20576.16943
Jan02	01	496.6814	857.197998	3.380647	14.88516	0.89333344	0.876260877	0.00216425	1.85651958	44.55647	10.96245861	10.75451279	0.043634385	37.4024658	897.6591797	24	20572.75195
	02	497.5535	858.7012329	3.389422	14.86953	0.92847019	0.907740235	0.002242	1.926445365	46.23469	10.94910049	10.71396255	0.04346982	37.3245277	895.7886963	24	20608.82959
	03	503.7664	869.4260254	3.414289	14.82529	1.1237036	1.091113329	0.002694908	2.343092442	56.23422	10.59281635	10.28820801	0.041742384	36.293129	871.0350952	24	20866.22461
	04	511.6566	883.0430298	3.398962	14.85255	1.2702862	1.239167929	0.003060583	2.702955008	64.87092	10.82954979	10.56563377	0.042868067	37.8553276	908.5278931	24	21193.03271
	05	511.9148	883.4890137	3.392601	14.86387	1.29636085	1.26701045	0.00312935	2.765927792	66.38227	10.77961636	10.53626633	0.042748921	37.7739296	906.5742798	24	21203.73633
	06	505.0469	871.6355591	3.384208	14.8788	1.323228	1.296184182	0.003201405	2.792524576	67.02059	10.74734974	10.53152084	0.042729668	37.247776	893.9465942	24	20919.25342
	07	500.4972	863.7838135	3.382829	14.88126	1.29418623	1.268323302	0.003132593	2.706930876	64.96634	10.43235016	10.22728539	0.041495264	35.8468132	860.3234863	24	20730.81152
	08	504.3238	870.3886108	3.391966	14.865	1.34310031	1.313335061	0.003243765	2.826569557	67.83767	10.59281254	10.35698032	0.04202145	36.5757446	877.8178711	24	20889.32666
	09	500.8959	864.4713135	3.382046	14.88266	1.09778833	1.075948	0.00265745	2.299119473	55.17887	10.78932095	10.5790081	0.042922333	37.1056175	890.53479	24	20747.31152
	10	501.3324	865.2252197	3.385734	14.8761	1.10065055	1.078026295	0.002662584	2.303895473	55.29349	10.49123287	10.27546215	0.041690744	36.0721817	865.7324219	24	20765.40527
	11	509.9917	880.1699829	3.400869	14.84915	1.41512036	1.379598737	0.003407431	2.99999547	71.99989	10.43781662	10.17763329	0.04129377	36.3470154	872.3284302	24	21124.07959
	12	516.9092	892.1085815	3.400933	14.84905	1.51893795	1.480889201	0.003657604	3.262970924	78.3113	10.75085449	10.48342514	0.042534493	37.9459877	910.7037354	24	21410.60596
	13	516.9643	892.2033691	3.367165	14.90913	1.43467629	1.412798762	0.003489425	3.1136024	74.72646	11.31270027	11.14181232	0.045205712	40.3306427	967.9354248	24	21412.88086
	14	517.5385	893.194397	3.344636	14.94924	1.32037306	1.308839083	0.00323266	2.887158155	66.40464	11.38205624	11.28486061	0.045786157	40.8867188	940.3945313	24	21436.66553
	15	514.2884	887.5854492	3.355844	14.92927	1.27807665	1.263077974	0.003119632	2.769388437	66.46532	11.06451702	10.93390465	0.044362225	39.3756599	945.0158081	24	21302.05078
	16	515.28	889.2971191	3.380266	14.88583	1.35852206	1.332716227	0.003291633	2.928958416	70.295	10.89536667	10.68977928	0.043371744	38.5738068	925.7714233	24	21343.13086
	17	511.2693	882.3748169	3.368691	14.90642	1.28141463	1.260121226	0.003112334	2.751852036	66.04445	10.81825829	10.65084553	0.0432138	38.1221581	914.9318237	24	21176.99561
	18	510.5437	881.1228638	3.358389	14.92475	1.3183012	1.301047087	0.003213415	2.833547115	68.00513	10.66053295	10.52699566	0.042711295	37.6313057	903.1513062	24	21146.94873
	19	510.5027	881.0516357	3.345798	14.94717	1.23276639	1.221608043	0.003017211	2.661279917	63.87072	10.96435833	10.86709976	0.044091165	38.847805	932.34729	24	21145.23926
	20	508.1105	876.9221191	3.367354	14.90881	1.14786744	1.129801035	0.00279046	2.451225519	58.82941	11.10331631	10.93450832	0.044364713	38.9018326	933.6439819	24	21046.13086
	21	504.8546	871.3035278	3.293928	15.03944	0.9155767	0.920239687	0.002272871	1.979576826	43.55069	11.48763657	11.56988621	0.046942592	40.8413239	898.5090942	24	20911.28467
	22	513.1783	885.6699829	3.25136	15.11517	1.00971067	1.030226231	0.002544524	2.254626989	54.11105	11.56945419	11.80087948	0.047879774	42.4044304	1017.706299	24	21256.07959
	23	517.0624	892.3742065	3.307323	15.0156	1.23817182	1.241754055	0.003066972	2.73892951	65.73431	11.1001339	11.13479137	0.045177273	40.3215141	967.7163086	24	21416.98096
	24	511.9619	883.5695801	3.310693	15.00962	1.26026988	1.260337472	0.003112868	2.756139994	66.14736	10.84051704	10.85963345	0.044060864	38.9257507	934.2180176	24	21205.66992
	25	505.8104	872.9536133	3.260963	15.0981	1.05502105	1.072415709	0.002648727	2.314385891	55.54526	10.86675835	11.05058384	0.044835594	39.1403809	939.3690796	24	20950.88672
	26	503.994	869.8195801	3.266177	15.0888	1.13530815	1.152515411	0.002846564	2.479572773	59.50975	11.07151699	11.24144554	0.045609999	39.6762238	952.2293701	24	20875.66992
	27	411.0191	773.8451538	2.917082	13.80992	2.11923695	4.331877708	0.010699178	4.14571476	91.20573	10.00510311	10.4684639	0.04247376	35.583992	782.8477783	21.60556	16719.35518
	28	516.503	891.4068604	3.300328	15.02806	1.09890151	1.103655934	0.002725888	2.430702925	58.33687	11.29728699	11.35617352	0.046075504	41.0704727	944.6209106	24	21393.76465
	29	524.8904	905.8822021	3.32303	14.98766	1.27998376	1.27731204	0.003154791	2.858273268	68.59856	11.10697079	11.08559608	0.044977661	40.7437096	977.848999	24	21741.17285
	30	520.5362	898.3671875	3.337976	14.96107	1.2105087	1.201981068	0.002968736	2.669201612	64.06084	10.85211658	10.78166294	0.043744568	39.295929	943.1022949	24	21560.8125
	31	518.2864	894.4840698	3.322649	14.98833	1.23276663	1.229685426	0.003037163	2.719960451	65.27905	10.72032547	10.69907475	0.04340947	38.8305359	931.9329224	24	21467.61768
Feb02	01	515.4008	889.5056763	3.300328	15.02805	1.24309981	1.248056173	0.003082535	2.745151758	65.88364	10.7392292	10.79129124	0.043783575	38.9421577	934.6118164	24	21348.13623
	02	511.2579	882.3556519	3.30497	15.01979	1.14723325	1.151079655	0.002843015	2.510770321	60.25849	10.68774128	10.72492027	0.043514259	38.4020424	921.6489868	24	21176.53564
	03	362.2086	750.1420898	2.830966	14.0344	8.69638443	54.30799103	0.134133697	10.37267494	207.4535	9.1630373	9.920722961	0.04025143	32.5165291	650.3305664	19.11944	14342.2996
	04	512.8771	885.1481934	3.329771	14.97567	1.11607063	1.111285686	0.002744729	2.431250334	58.35001	10.37358761	10.33100414	0.041916028	37.1024628	890.4591064	24	21243.55664
	05	509.7834	879.8095703	3.347514	14.9441	1.10494232	1.094456911	0.00270317	2.379050016	57.0972	10.35403728	10.25779343	0.041619018	36.6204414	878.890625	24	21115.42969
	06	509.5362	879.3828735	3.359342	14.92305	1.07505393	1.060939193	0.002620383	2.306699276	55.36078	10.41570854	10.28277874	0.041720349	36.6915321	880.5968018	24	21105.18896
	07	506.0909	873.4371338	3.349231	14.94105	1.02052248	1.010055304	0.002494704	2.180508375	52.3322	10.26657963	10.16567707	0.0412453	36.0286446	864.6875	24	20962.49121
	08	508.6813	877.9083862	3.369898	14.90427	1.1469146	1.128494143	0.002787235	2.447596312	58.74231	9.917770386	9.759236336	0.039596226	34.7644615	834.3471069	24	21069.80127
	09	507.3433	875.5993042	3.352474	14.93528	1.17076159	1.156686783	0.002856867	2.505129576	60.12311	10.3767643	10.26801205	0.041660525	36.4618492	875.0844116	24	21014.3833
	10	503.6922	869.2981567	3.337339	14.96219	1.15359116	1.143291354	0.002823779	2.461075306	59.06581	10.40839863	10.35029316	0.041994266	36.4846039	875.6304932	24	20863.15576
	11	504.5517	870.7820435	3.330344	14.97465	1.0693301	1.063837767	0.002627542	2.291351318	54.99243	10.51157093	10.46808147	0.042472254	36.9751587	887.4038086	24	20898.76904
	12	504.1156	870.0282593	3.333395	14.9692	1.05136538	1.045192122	0.002581487	2.247977972	53.95147	10.48757458	10.43636703	0.042343535	36.8400955	884.1622925	24	20880.67822
	13	500.9781	864.6136475	3.344969	14.94862	1.15708971	1.146051049	0.002830597	2.449100733	58.77842	10.38914967	10.30030537	0.041791547	36.1344757	867.227417	24	20750.72754
	14	502.8327	867.8140259	3.36392	14.91492	1.29047835	1.27154541	0.00314055	2.728017569	65.47242	10.27421284	10.12898827	0.04109643	35.6669235	856.0062256	24	20827.53662

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	498.7939	860.8442383	3.360804	14.92045	1.22036588	1.203220725	0.002971796	2.56166625	61.47999	10.19551754	10.06033897	0.040817894	35.1359787	843.2634888	24	20660.26172
	16	501.9721	866.329895	3.352475	14.93528	1.27632833	1.262286663	0.00311768	2.702799082	64.86718	10.3939209	10.28119564	0.041714028	36.1385956	867.3262939	24	20791.91748
	17	502.5796	867.3777466	3.350821	14.93822	1.07982337	1.068067193	0.002637987	2.291090488	54.98617	10.63892937	10.52907467	0.042719696	37.0526466	889.2634888	24	20817.06592
	18	508.8544	878.2069702	3.362459	14.91752	1.17696285	1.160363197	0.002865946	2.518246651	60.43792	10.52827454	10.3830204	0.042127136	36.9971237	887.9310303	24	21076.96729
	19	506.28	873.7643433	3.353042	14.93426	1.27729571	1.262988687	0.003119418	2.725569963	62.68811	10.06032085	9.949381828	0.040367715	35.2721443	811.2592773	24	20970.34424
	20	502.8163	867.7854004	3.345925	14.94692	1.28507161	1.272571683	0.003143087	2.7298913	65.51739	9.606638908	9.522010803	0.038633715	33.5232849	804.5587769	24	20826.84961
	21	498.9837	861.1713257	3.352856	14.9346	1.22115958	1.207309127	0.002981895	2.568477154	61.64345	9.600599289	9.497005463	0.038532272	33.1894836	796.5476074	24	20668.11182
	22	494.4695	853.3812256	3.327355	14.97997	1.17266929	1.167539597	0.002883671	2.463469982	59.12328	9.904894829	9.872256279	0.040054802	34.1803627	820.3286743	24	20481.14941
	23	499.6568	862.3330688	3.330598	14.9742	1.05104613	1.046733141	0.002585294	2.231402159	53.55365	10.38708782	10.3423996	0.041962281	36.1873779	868.4971313	24	20695.99365
	24	505.4286	872.2946167	3.347832	14.94355	1.19779086	1.186195016	0.002929744	2.557355404	61.37653	10.30617046	10.20846653	0.04141891	36.1320457	867.1691284	24	20935.0708
	25	501.7552	865.9553223	3.316345	14.99956	1.21851265	1.218141794	0.00300865	2.605710745	59.93135	10.09116459	10.08998108	0.040938161	35.4405785	815.1333008	24	20782.92773
	26	497.9511	859.3887329	3.324112	14.98573	1.16186047	1.157989979	0.002860083	2.459530354	59.02873	9.958152771	9.938621521	0.040324021	34.6574783	831.77948	24	20625.32959
	27	495.5942	855.3205566	3.333841	14.96843	1.05883598	1.052915931	0.002600564	2.226670027	53.44008	10.1651535	10.11317062	0.041032221	35.0950584	842.2813721	24	20527.69336
	28	495.1181	854.500061	3.342681	14.9527	0.94198322	0.933244824	0.002304992	1.972337484	47.3361	10.47213745	10.39052391	0.042157561	36.0222549	864.5341187	24	20508.00146
Mar02	01	499.6872	862.3850708	3.318706	14.99535	0.95199955	0.950387597	0.002347331	2.027680397	48.66433	11.07995415	11.07194614	0.044922326	38.7385178	929.7244263	24	20697.2417
	02	503.4674	868.9091797	3.315527	15.00101	1.05947316	1.058526635	0.002614422	2.276144505	54.62747	10.83399963	10.83702946	0.043969188	38.1981277	916.755127	24	20853.82031
	03	503.025	868.1456909	3.312537	15.00633	1.17314792	1.17349112	0.002898371	2.520307541	60.48738	10.43288612	10.44522476	0.042379461	36.7824059	882.77771	24	20835.49658
	04	503.5847	869.1129761	3.295812	15.03607	1.16980886	1.175817847	0.002904114	2.527819157	60.66766	10.36627483	10.43174171	0.042324841	36.7799072	882.7177734	24	20858.71143
	05	501.0273	864.6988525	3.317752	14.99705	1.12417972	1.121752739	0.002770582	2.398848772	57.57237	10.34831142	10.34770203	0.04198382	36.2960434	871.1049805	24	20752.77246
	06	496.0406	856.0932617	3.335558	14.96537	1.08522785	1.077790022	0.002662004	2.282044649	54.76907	10.08056831	10.02478218	0.040673643	34.8175278	835.6207275	24	20546.23828
	07	500.917	864.5092163	3.336577	14.96357	1.14500785	1.137362719	0.00280914	2.429144621	58.29947	10.09551048	10.03467751	0.04071378	35.202076	844.8497925	24	20748.22119
	08	511.7609	883.2232666	3.331552	14.9725	1.2341969	1.227785707	0.00303247	2.681055069	64.34532	10.62684155	10.57677078	0.042913172	37.9057617	909.7382813	24	21197.3584
	09	506.9615	874.9402466	3.328118	14.97861	1.28411853	1.278703332	0.003158232	2.767084599	66.41003	10.10378361	10.0670805	0.040845249	35.7449265	857.8781738	24	20998.56592
	10	502.5414	867.3114014	3.316926	14.99852	1.19763029	1.195889831	0.002953691	2.564618826	61.55085	10.11649227	10.11583424	0.041043051	35.5948143	854.2755127	24	20815.47363
	11	503.7525	869.4022217	3.322827	14.98802	1.39607739	1.392318726	0.003438845	2.992074728	68.81772	9.78963089	9.770526886	0.039642043	34.4643517	792.6801147	24	20865.65332
	12	499.217	861.5745239	3.312601	15.00622	1.22274995	1.223852515	0.003022753	2.605823755	62.53977	9.892652512	9.905703545	0.040190492	34.6279678	831.071228	24	20677.78857
	13	505.2854	872.0479126	3.301917	15.02521	1.07553148	1.079657316	0.002666613	2.327546597	55.86112	10.77023888	10.81764317	0.043890566	38.2735252	918.5645752	24	20929.1499
	14	508.514	877.6190796	3.326782	14.98099	1.16789961	1.163813829	0.002874469	2.526248693	60.62997	10.76246262	10.72840881	0.043528449	38.1994934	916.7878418	24	21062.85791
	15	489.063	844.050293	3.205318	14.76166	1.25009573	1.860822678	0.004595985	2.607906342	62.58975	10.69393349	11.13483715	0.045177463	37.8088303	907.4119263	24	20257.20703
	16	194.3352	731.7678833	2.876428	13.88225	12.3255482	31.74126816	0.078396827	11.69046307	128.5951	10.78121853	11.62880039	0.047181591	35.8645096	394.509613	10.39444	7606.319927
	17	516.429	891.2789917	3.355844	14.92928	1.01082408	0.998173296	0.002465354	2.199957609	52.79898	10.89137459	10.76239586	0.043666366	38.917778	934.0266724	24	21390.6958
	18	519.6188	896.7835693	3.308514	15.01349	1.01595235	1.017443776	0.002512952	2.254864454	51.86188	11.23817825	11.2677784	0.04571683	40.9654617	942.2056274	24	21522.80566
	19	511.3353	882.4884033	3.308975	15.01267	1.14484859	1.146912336	0.002832721	2.500265837	60.00638	10.89298344	10.91723728	0.044294596	39.099411	938.3858643	24	21179.72168
	20	501.673	865.8129883	3.326082	14.98225	1.15804398	1.153597474	0.002849235	2.467606306	59.22255	10.76022911	10.72994614	0.043534737	37.6959229	904.7022095	24	20779.51172
	21	498.0303	859.526123	3.3423	14.95339	1.05359101	1.045273781	0.00258169	2.221826315	53.32383	10.9012413	10.81617069	0.043884516	37.721817	905.3236084	24	20628.62695
	22	501.4557	865.4385986	3.353491	14.93347	0.93451077	0.92323643	0.002280274	1.973977089	47.37545	11.27153778	11.14841652	0.045232553	39.1467438	939.5217896	24	20770.52637
	23	502.6457	867.4915161	3.349613	14.94037	0.98347914	0.9735502	0.002404542	2.086452007	50.07485	10.97867966	10.86896706	0.044098847	38.2550507	918.1212158	24	20819.79639
	24	505.8401	873.0057373	3.337529	14.96186	0.93149078	0.924527347	0.002283463	1.996252537	47.91006	11.05816269	10.98845387	0.044583522	38.9164848	933.9956055	24	20952.1377
	25	505.0332	871.6119385	3.335367	14.96572	0.97187215	0.966011345	0.002385923	2.078987122	49.89569	11.04369545	10.97976303	0.044548273	38.8350449	932.0411377	24	20918.68652
	26	501.3023	865.1729736	3.338865	14.95949	0.99619728	0.990497947	0.002446401	2.118058681	50.83341	10.85752869	10.7842207	0.043754876	37.8576851	908.5844116	24	20764.15137
	27	496.4585	856.8140259	3.343126	14.9519	1.00764418	0.999871671	0.002469551	2.116219997	50.78928	10.59567928	10.51172256	0.042649336	36.5425606	877.0214844	24	20563.53662
	28	496.1914	856.354187	3.346751	14.94545	0.9383269	0.928991079	0.002294485	1.966447949	47.19475	11.00030041	10.90062523	0.044227213	37.8710594	908.9053955	24	20552.50049
	29	493.8076	852.2386475	3.361567	14.9191	0.88840622	0.876526117	0.002164904	1.847787976	44.34691	10.87374592	10.72713375	0.0435233	37.0932007	890.2368164	24	20453.72754
	30	492.4553	849.9058838	3.358452	14.92465	0.83896172	0.827999532	0.002045052	1.740067959	41.76163	10.65211296	10.51776218	0.042673759	36.2726517	870.5435791	24	20397.74121
	31	491.3136	847.9334106	3.348977	14.94149	1.01463962	1.004631758	0.002481311	2.104434252	50.50642	10.4689579	10.36606216	0.042058337	35.6642723	855.9425049	24	20350.40186
Apr02	01	490.9232	847.2600708	3.326718	14.9811	1.13011622	1.125967622	0.002780992	2.357949972	56.5908	10.53209591	10.49846268	0.042595509	36.0908089	866.1793823	24	20334.2417
	02	490.8654	847.1605835	3.34338	14.95145	1.05343223	1.045063734	0.002581173	2.188293457	52.51904	10.56674194	10.4808836	0.042524133	36.0268288	864.6439209	24	20331.854
	03	494.3955	853.2531738	3.353047	14.93425	0.99778676	0.986416936	0.002436323	2.080717087	49.93721	10.58565807	10.46879959	0.042475175	36.2459946	869.9039307	24	20478.07617
	04	496.7635	857.3405151	3.341282	14.95519	1.07394075	1.065257549	0.002631049	2.256772041	54.16253	10.70284176	10.62246704	0.043098658	36.9520302	886.8486938	24	20576.17236
	05	500.6541	864.0541382	3.331933	14.97182	1.01813698	1.013017178	0.00250202	2.162387609	51.8973	10.9409914	10.88940048	0.044181667	38.1777077	916.2650146	24	20737.29932
	06	495.489	855.1403198	3.330788	14.97385	0.91352504	0.90936327	0.002246009	1.920685053	46.09644	11.20918369	11.16072464	0.045282476	38.7240219	929.3764648	24	20523.36768
	07	473.2774	852.3197632	3.345741	14.94726	0.98310483	0.974502504	0.002406894	2.053262234	47.22503	10.98702145	10.890522	0.044186149	37.6607437	866.1970825	24	20455.67432
	08	492.8736	850.6265869	3.338467	14.9602	1.17295814	1.164963126	0.002877307	2.450814486	53.91792	10.08384228	10.01496506	0.040633794	34.5955353	761.1018066	24	20415.03809

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	09	494.7276	853.8270264	3.347133	14.94477	1.04119039	1.033097386	0.002551616	2.18158865	52.35813	9.864988327	9.773644447	0.039654683	33.8588982	812.6135864	24	20491.84863
	10	493.8651	852.3381348	3.342173	14.9536	1.26806033	1.257908583	0.003106867	2.649749041	63.59398	9.828900337	9.752113342	0.039567333	33.7256889	809.4165039	24	20456.11523
	11	493.695	852.0441895	3.338993	14.95927	1.15756655	1.149781704	0.002839809	2.423821688	58.17172	9.87929821	9.812199593	0.039811134	33.9208374	814.1000977	24	20449.06055
	12	490.1868	845.989563	3.348977	14.9415	1.09254205	1.080420494	0.002668496	2.25753665	54.18088	9.778185844	9.682497025	0.03928487	33.2381477	797.7155151	24	20303.74951
	13	487.0629	840.5986328	3.342363	14.95327	1.22131848	1.21143806	0.002992092	2.519144058	60.45946	9.529056549	9.45421505	0.038358659	32.2469788	773.9274902	24	20174.36719
	14	482.8514	833.3301392	3.338928	14.95938	1.03673816	1.029144049	0.002541851	2.120771646	50.89852	9.640979767	9.575654984	0.038851369	32.3746605	776.9918823	24	19999.92334
	15	498.8212	860.8916016	3.31012	15.01063	0.88395452	0.885286272	0.002186541	1.885195851	45.2447	11.15816498	11.17945957	0.045358483	39.0598335	937.4359741	24	20661.39844
	16	502.3243	866.9368286	3.327228	14.98018	1.16233563	1.157375097	0.002858567	2.480024099	59.52058	10.98359966	10.94772053	0.044418268	38.5061722	924.1480713	24	20806.48389
	17	500.8871	864.4570313	3.316798	14.99875	1.12354362	1.122726917	0.002772991	2.398947001	57.57473	10.93271637	10.93044567	0.044348199	38.3391151	920.1387939	24	20746.96875
	18	505.1398	869.8171387	3.310692	15.02877	1.22163737	1.226305842	0.003029481	2.639873743	63.35697	10.99377918	11.05010414	0.044844333	38.9948196	935.8756714	24	20875.61133
	19	504.3965	867.0971069	3.310947	15.0421	1.18634367	1.194231749	0.002950783	2.561526775	61.47664	10.99488735	11.0755291	0.044954829	38.9784203	935.4821167	24	20810.33057
	20	498.9726	857.774292	3.313999	15.0367	1.1114608	1.117356777	0.002760835	2.370401144	56.88963	10.88041306	10.95062065	0.044447858	38.1212807	914.9107056	24	20586.58301
	21	496.3408	853.2498169	3.324303	15.01847	1.26408517	1.267450929	0.003131695	2.673243046	64.15783	10.59106255	10.62571239	0.043129113	36.8014526	883.2349243	24	20477.99561
	22	493.3024	848.0264893	3.33291	15.00325	1.35847044	1.358403802	0.003356425	2.848536253	68.36487	10.21365356	10.21970081	0.0414811	35.1782112	844.2770996	24	20352.63574
	23	491.7472	845.3533325	3.34109	14.98878	1.35200381	1.349407434	0.0033342	2.820352554	67.68846	10.0268364	10.00859642	0.040624302	34.3425064	824.2202148	24	20288.47998
	24	492.7745	847.1196289	3.349548	14.97381	1.11591232	1.110042095	0.002742762	2.324380398	55.78513	9.92286396	9.880049706	0.040102497	33.969944	815.2786865	24	20330.87109
	25	494.4456	849.9909668	3.341981	14.9872	1.20494342	1.201635599	0.002969074	2.523188829	60.55653	10.08502293	10.06340218	0.040846705	34.7195015	833.2680054	24	20399.7832
	26	492.8295	847.2140503	3.340137	14.99046	1.17982447	1.178682923	0.002912361	2.469067574	59.25762	10.26117897	10.24497986	0.041583784	35.2307434	845.5377808	24	20333.13721
	27	500.5139	860.4237671	3.34745	14.97752	1.18364036	1.178923726	0.002912959	2.507171631	60.17212	10.46087933	10.42109203	0.042298574	36.3938904	873.4534302	24	20650.17041
	28	499.8485	859.2809448	3.338484	14.99339	1.23864877	1.237043738	0.003056566	2.627341986	63.05621	10.24732876	10.23619747	0.041548111	35.7019157	856.8460083	24	20622.74268
	29	497.7113	855.6065063	3.327545	15.01274	0.80191815	0.803615749	0.001985624	1.70110178	40.82644	10.33685398	10.36020851	0.042051475	35.9787369	863.4896851	24	20534.55615
	30	499.7799	859.1625977	3.325828	15.01577	0.78872246	0.790330708	0.001952798	1.679570913	40.3097	10.53286648	10.56128311	0.042867653	36.8313141	883.9514771	24	20619.90234
May 02	01	497.8683	855.8756714	3.312346	15.03963	1.17934799	1.188982487	0.00293781	2.505828857	60.13989	10.49187088	10.56293297	0.042874333	36.6949234	880.6782227	24	20541.01611
	02	493.7389	848.7774658	3.336894	14.9962	1.30860114	1.309100986	0.003234612	2.746557474	65.91738	10.20092773	10.19629669	0.04138612	35.1266556	843.0396729	24	20370.65918
	03	490.7806	843.6911011	3.352602	14.96841	0.96265179	0.957056344	0.002364755	1.999390364	47.98537	9.891064644	9.838757515	0.039934933	33.6953659	808.6887817	24	20248.58643
	04	266.2224	646.0922241	2.591394	12.01224	2.63997078	6.507643223	0.016079472	5.160964012	87.73639	8.465302467	9.620223045	0.039047811	28.3466644	481.8933105	16.91389	10927.93212
	05	493.6239	848.5789795	3.378866	14.92195	0.74229884	0.732547343	0.001810025	1.533482671	36.80358	10.13652897	10.00432777	0.040606953	34.4580345	826.9927979	24	20365.89551
	06	494.5995	850.2556152	3.365448	14.94569	0.90764254	0.899063468	0.002221463	1.889569163	45.34966	10.35608768	10.26226711	0.041653909	35.4143181	849.9436035	24	20406.13477
	07	498.3129	856.6407471	3.365701	14.94524	0.91686374	0.907974541	0.002243481	1.923299551	46.15919	10.43017483	10.33643341	0.041954957	35.9420967	862.6102905	24	20559.37793
	08	500.6761	860.7024536	3.374286	14.93005	1.03387725	1.021525025	0.002524048	2.174179077	52.1803	10.41984177	10.29807472	0.041799277	35.9753456	863.4082642	24	20656.85889
	09	499.5216	858.718689	3.363221	14.94963	1.03864574	1.029214025	0.002543047	2.185487986	52.45171	10.51331711	10.42566586	0.042317152	36.3352776	872.0466919	24	20609.24854
	10	503.3408	865.2834473	3.3547	14.9647	1.0001719	0.993920445	0.002455839	2.125959158	51.02302	10.67755413	10.6149292	0.043085363	37.2792664	894.7023926	24	20766.80273
	11	500.4039	860.2346802	3.373651	14.93118	1.05200016	1.039011955	0.002567254	2.210811615	53.05948	10.3564043	10.23779583	0.041554604	35.7452583	857.8862305	24	20645.63232
	12	495.2687	851.40802	3.374923	14.92892	1.0058955	0.993219137	0.002454107	2.092704058	50.2249	10.08915043	9.968838692	0.040462893	34.4539299	826.8942871	24	20433.79248
	13	495.7174	852.1779175	3.350758	14.97167	1.08968019	1.083900213	0.002678168	2.284237146	54.82169	9.93987751	9.892438889	0.040152796	34.220974	821.3034058	24	20452.27002
	14	495.9207	852.5273438	3.359533	14.95615	1.01161897	1.004201412	0.002481244	2.117299557	50.81519	10.16213131	10.08742046	0.040944189	34.9069595	837.7669678	24	20460.65625
	15	492.0936	845.9484253	3.372825	14.93264	0.92640376	0.91582799	0.002262885	1.915859222	45.98062	10.0516367	9.938568115	0.040340036	34.1277084	819.0650024	24	20302.76221
	16	491.4586	844.8575439	3.387006	14.90755	0.93800879	0.92329061	0.002281324	1.928342104	46.28021	9.921743393	9.768489838	0.039649721	33.5009346	804.0223999	24	20276.58105
	17	487.1241	837.4049683	3.382936	14.91475	0.82624263	0.814060509	0.002011431	1.685501695	40.45204	9.931612015	9.790119171	0.039737489	33.2773781	798.6571045	24	20097.71924
	18	488.624	839.9836426	3.379503	14.92083	0.85947037	0.847870648	0.002094971	1.761039972	42.26496	9.959105492	9.827448845	0.039889019	33.5077591	804.1862183	24	20159.60742
	19	494.4891	850.0667725	3.385671	14.90991	0.79158413	0.779677033	0.001926473	1.638366699	39.3208	10.26324749	10.10956383	0.041034091	34.8849411	837.2385864	24	20401.60254
	20	498.7166	857.335022	3.375812	14.92735	0.86376297	0.852863014	0.002107306	1.807138324	43.37132	10.22000504	10.09657288	0.04098136	35.1403847	843.3692017	24	20576.04053
	21	504.0228	866.4547119	3.364494	14.94738	0.73212385	0.724998116	0.00179137	1.552640438	37.26337	10.22302532	10.13286781	0.041128647	35.6358414	855.2601929	24	20794.91309
	22	499.9453	859.446106	3.347515	14.97741	1.43578935	1.429394245	0.003531838	3.037578344	72.90188	10.19090176	10.15307713	0.041210692	35.4185333	850.0447998	24	20626.70654
	23	496.5823	853.6654053	3.345478	14.98101	1.54866838	1.543936133	0.003814855	3.258682489	78.20838	10.15100861	10.12064457	0.041079048	35.0720596	841.7293701	24	20487.96973
	24	490.1481	842.6046753	3.363985	14.94827	1.19747138	1.187073231	0.002933095	2.47683239	59.44398	9.765623093	9.680659294	0.039293211	33.1170158	794.8084106	24	20222.51221
	25	488.2255	839.2987671	3.363539	14.94906	1.11289167	1.103265285	0.002726017	2.287312984	54.89551	9.393442154	9.31323719	0.037801865	31.7290249	761.496582	24	20143.17041
	26	488.4647	839.7097168	3.371679	14.93466	1.0469141	1.035788774	0.002559293	2.146419525	51.51407	9.4435215	9.34011364	0.037910946	31.8339214	764.0140991	24	20153.0332
	27	488.9667	840.5739136	3.374287	14.93005	1.0221113	1.009425163	0.002494152	2.09664464	50.31947	9.299004555	9.189734459	0.037300561	31.357687	752.5844727	24	20173.77393
	28	488.7274	840.1630249	3.347388	14.97764	1.09778905	1.093135238	0.002700988	2.270234585	54.48563	9.083898544	9.049781799	0.036732513	30.8600883	740.6420898	24	20163.9126
	29	483.6875	831.4968872	3.345225	14.98146	1.19874382	1.195341945	0.002953526	2.454344511	58.90427	8.791050911	8.763576508	0.035570811	29.5819874	709.9677124	24	19955.92529
	30	478.4945	822.5708618	3.34478	14.98225	1.29413414	1.289927483	0.003187234	2.624740839	62.99378	8.555435181	8.530010223	0.034622796	28.4817867	683.5629272	24	19741.70068
	31	478.4453	822.4857788	3.35362	14.96661	0.94261891	0.93710345	0.002315455	1.904682875	45.71239	8.809968948	8.761387825	0.035561934	29.2579117	702.1898804	24	19739.65869

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Jun 02	01	488.5738	839.8986816	3.356672	14.96121	0.96662569	0.959288776	0.002370268	1.990013242	47.76032	9.467368126	9.405939102	0.038178142	32.0682297	769.6375122	24	20157.56836
	02	497.0995	854.5531006	3.353174	14.9674	0.96901119	0.962241173	0.002377567	2.0365839	48.87801	9.682317734	9.629357338	0.039084982	33.4013443	801.6323242	24	20509.27441
	03	491.2034	844.4182739	3.353261	14.96725	1.09301937	1.08613956	0.002683702	2.261021852	54.26452	9.28077507	9.23005867	0.03746425	31.6453037	759.4873047	24	20266.03857
	04	483.0739	830.4437256	3.357433	14.95986	1.08618259	1.078560233	0.002664975	2.213967085	53.13521	8.83826828	8.77827549	0.035630476	29.5932083	710.2369995	24	19930.64941
	05	478.2475	822.145813	3.355782	14.96279	0.94945586	0.943246782	0.002330633	1.918982029	46.05557	8.546690941	8.49307251	0.034472849	28.3452835	680.2868042	24	19731.49951
	06	475.7337	817.8245239	3.35451	14.96504	0.90764284	0.901100755	0.002226497	1.821097374	43.70634	8.644625664	8.594274521	0.034883633	28.5292339	684.7015991	24	19627.78857
	07	479.9153	825.0125122	3.360043	14.95525	1.12243068	1.113295197	0.0027508	2.268771172	54.4505	9.132865906	9.064008713	0.036790259	30.3546867	728.5125122	24	19800.30029
	08	488.6946	840.1063843	3.358516	14.95795	0.78061497	0.776825786	0.00191943	1.611576319	38.67783	9.463554382	9.396857262	0.038141269	32.0458336	769.0999756	24	20162.55322
	09	496.6565	853.7930298	3.349105	14.9746	1.1744175	1.169529319	0.002889745	2.466288328	59.19092	9.938281059	9.8962183	0.040168129	34.2994652	823.1871948	24	20491.03271
	10	490.9894	844.0499268	3.342576	14.98615	0.92301184	0.920465767	0.002274344	1.918626547	46.04704	9.605209351	9.582937241	0.038896557	32.8355179	788.0524292	24	20257.19824
	11	487.4011	837.8820801	3.35559	14.96313	1.06726253	1.06103909	0.002621683	2.199425459	52.78621	9.306477547	9.249625206	0.037543669	31.462183	755.0924072	24	20109.16992
	12	485.1427	833.999939	3.356672	14.96121	1.13864851	1.131146193	0.002794908	2.330174923	55.9242	9.081515312	9.02226162	0.036620822	30.5431919	733.0366211	24	20015.99854
	13	485.2715	834.2219849	3.350758	14.97167	1.14866316	1.143241286	0.002824793	2.358204603	56.59691	9.067840576	9.025166512	0.036632586	30.5655289	733.5726929	24	20021.32764
	14	487.2117	837.5560913	3.353174	14.9674	1.18523026	1.178376794	0.002911605	2.441966295	58.60719	9.051943779	9.003329277	0.036543965	30.6209583	734.9030151	24	20101.34619
	15	484.7526	833.3292847	3.355718	14.9629	1.00207984	0.99563086	0.002460065	2.051193237	49.22864	8.957507133	8.901460648	0.03613048	30.1088448	722.6123047	24	19999.90283
	16	487.2172	837.5656738	3.354829	14.96447	1.04850364	1.042056203	0.002574776	2.157454967	51.77892	9.084376335	9.030138969	0.036652785	30.6991501	736.7796021	24	20101.57617
	17	485.0658	833.8677368	3.340225	14.99031	0.95315564	0.951199651	0.002350283	1.961838245	43.16044	8.873705864	8.858952522	0.035957944	29.9802456	659.5654297	24	20012.82568
	18	479.6755	824.6015625	3.351266	14.97077	0.93403447	0.929049015	0.00229555	1.893916249	45.45399	8.580713272	8.538594246	0.034657627	28.5795174	685.9083862	24	19790.4375
	19	477.8957	821.5413208	3.359597	14.95604	0.96519536	0.95778209	0.002366548	1.945101261	46.68243	8.667042732	8.603136063	0.034919605	28.6876507	688.5036011	24	19716.9917
	20	480.5721	826.1411133	3.359153	14.95683	0.9798221	0.9724105	0.002402693	1.985885382	47.66125	8.971497536	8.90712738	0.036153477	29.8724995	716.9400024	24	19827.38672
	21	490.2516	842.7841187	3.359151	14.95683	1.19445074	1.18548882	0.00292918	2.468965769	59.25518	9.250514984	9.184010506	0.03727733	31.4192467	754.0618896	24	20226.81885
	22	325.1538	706.0621948	2.84445	13.94247	8.40784073	37.12944031	0.091741614	15.96024513	303.2447	8.649216652	10.02855015	0.040705223	29.0017757	551.0337524	18.25	12885.63506
	23	487.2172	837.5654907	3.377784	14.92386	0.60938776	0.60187161	0.001487141	1.247948885	29.95077	9.875164032	9.749531746	0.039572753	33.1459885	795.5036621	24	20101.57178
	24	486.9149	837.0461426	3.372188	14.93376	0.70732236	0.699345827	0.001727988	1.445822835	34.69975	9.856879234	9.74745369	0.039564326	33.118824	794.8518066	24	20089.10742
	25	484.3708	832.6726685	3.381028	14.91813	0.85072631	0.838969648	0.002072977	1.726642132	41.43941	9.539071083	9.409379005	0.038192097	31.8036842	763.2883911	24	19984.14404
	26	485.9395	835.3694458	3.382299	14.91588	0.72942114	0.719026268	0.001776614	1.484350443	35.62441	9.682953835	9.547159195	0.038751334	32.3756752	777.0161743	24	20048.8667
	27	486.8928	837.0083008	3.379184	14.92139	0.80271298	0.791853845	0.001956563	1.636374593	39.27299	9.713155746	9.58577919	0.038908087	32.5730591	781.753418	24	20088.19922
	28	485.8961	835.2938843	3.372123	14.93388	0.74213982	0.734047949	0.001813732	1.516068697	36.38565	9.622061729	9.515378952	0.038622338	32.2621536	774.291687	24	20047.05322
	29	485.3299	834.3209229	3.373587	14.93129	0.69237757	0.684262633	0.001690718	1.410904169	33.8617	9.460851669	9.351995468	0.037959166	31.6725502	760.1411743	24	20023.70215
	30	479.9147	825.0123901	2.482767	16.50739	0.50207317	0.680187404	0.00168065	1.380183697	33.12441	6.769878387	9.105435371	0.036958408	30.5030289	732.0726929	24	19800.29736
Jul 02	01	474.1022	815.0192261	3.374352	14.92994	0.82894522	0.819124222	0.002023941	1.649848342	39.59636	8.947968483	8.843313217	0.035894468	29.2623291	702.2958984	24	19560.46143
	02	483.6233	831.3881836	3.377021	14.92521	0.77870625	0.768748939	0.001899472	1.579413295	37.90592	9.306635857	9.191158295	0.037306339	31.0267677	744.642395	24	19953.31641
	03	485.4121	834.4628296	3.376003	14.92701	0.67027873	0.66185832	0.00163536	1.365597963	32.77435	9.486925125	9.371291161	0.038037498	31.7439175	761.8540039	24	20027.10791
	04	486.088	835.6246338	3.379247	14.92128	0.66153455	0.652747989	0.001612852	1.348433375	32.3624	9.559101105	9.43298912	0.038287912	31.9940166	767.8563843	24	20054.99121
	05	487.1295	837.4144287	3.375559	14.9278	0.85072631	0.840148926	0.002075892	1.739151716	41.73964	9.296619415	9.18436718	0.03727879	31.2187042	749.2489014	24	20097.94629
	06	486.115	835.671814	3.374988	14.92881	0.65533417	0.647719026	0.001600424	1.338951707	32.13484	9.228892326	9.119001389	0.037013479	30.9321461	742.371521	24	20056.12354
	07	484.9202	833.6174316	3.383317	14.91407	0.7027117	0.692526937	0.001711137	1.427420139	34.25808	8.995504379	8.86639595	0.035988152	30.0010033	720.0241089	24	20006.81836
	08	485.9257	835.3459473	3.383571	14.91362	0.80080527	0.7892856	0.001950217	1.631432772	39.15439	8.91299057	8.784315109	0.035654996	29.7864494	714.8748169	24	20048.30273
	09	479.7454	824.7196655	3.382046	14.91632	0.60318732	0.594943225	0.001470024	1.215106606	29.16256	8.706788063	8.585936546	0.034849789	28.7513466	690.0322876	24	19793.27197
	10	475.7314	817.8196411	3.385542	14.91014	0.6356203	0.626380026	0.001547699	1.266688228	30.40052	8.552891731	8.424845695	0.034195941	27.9670753	671.2097778	24	19627.67139
	11	479.6294	824.5213013	3.37734	14.92465	0.44944912	0.443193227	0.001095069	0.900835991	21.62006	8.910605431	8.798751831	0.035713583	29.4537506	706.8900146	24	19788.51123
	12	478.8655	823.2084351	3.382746	14.91509	0.82719713	0.815185785	0.002014212	1.659454823	39.82692	8.943674088	8.817202568	0.035788476	29.4732037	707.3568726	24	19757.00244
	13	478.8079	823.109314	3.386687	14.90811	0.79460472	0.782187998	0.00193268	1.592585802	38.22206	8.706788063	8.573280334	0.034798421	28.6467285	687.5214844	24	19754.62354
	14	473.7881	814.4807129	3.392411	14.89799	0.75422275	0.741098523	0.001831153	1.492308378	35.8154	8.483415604	8.339431763	0.033849251	27.5701828	661.6843872	24	19547.53711
	15	480.618	826.2216187	3.374966	14.92885	0.72300893	0.713752925	0.001763586	1.458073378	34.99376	8.771707535	8.667427063	0.03518055	29.0681076	697.6345825	24	19829.31885
	16	482.8597	830.0753784	3.381155	14.9179	0.74770433	0.736865878	0.001820694	1.511366248	36.27279	8.97467804	8.852321625	0.035931028	29.8313198	715.9517212	24	19921.80908
	17	482.8192	830.0043335	3.386942	14.90766	0.77807033	0.765922308	0.001892488	1.571992874	37.72783	8.856074333	8.719600677	0.035392318	29.3775787	705.0618896	24	19920.104
	18	482.852	830.0611572	3.374795	14.92915	0.87346107	0.863137305	0.002132693	1.771738291	42.52172	8.704881668	8.60185051	0.034914374	28.9827957	695.5870972	24	19921.46777
	19	479.3733	824.0820313	3.383571	14.91362	0.88681591	0.873759031	0.002158938	1.779993296	42.71984	8.569107056	8.44578743	0.03428096	28.250721	678.0172729	24	19777.96875
	20	479.1262	823.6571655	3.377974	14.92352	0.82433456	0.813551307	0.002010173	1.656566262	39.75759	8.727297783	8.615627289	0.034970306	28.8047123	691.3131104	24	19767.77197
	21	484.4894	832.8758545	3.376765	14.92566	0.79714835	0.787131786	0.001944894	1.621106625	38.90656	8.944945335	8.833950043	0.035856456	29.8687916	716.8510132	24	19989.02051
	22	485.0862	833.9007568	3.371489	14.935	0.81877047	0.809449375	0.002000039	1.668262124	40.03829	8.884850502	8.788676262	0.035672702	29.7573376	714.1760864	24	20013.61816
	23	483.6015	831.3503418	3.380075	14.91981	0.89619565	0.88391	0.00218402	1.816481233	43.59555	8.632383347	8.518408775	0.034575697	28.7581635	690.1959229	24	19952.4082

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	480.357	825.7728271	3.381091	14.91801	0.95406634	0.940678298	0.002324287	1.920835376	46.10005	8.215367317	8.102679253	0.032888286	27.1620865	651.8900757	24	19818.54785
	25	478.0222	821.7584839	3.37613	14.92679	0.97759581	0.965394676	0.002385357	1.961301684	47.07124	8.238101959	8.137231827	0.033028532	27.1415787	651.3978882	24	19722.20361
	26	481.7144	828.105896	3.36443	14.94749	0.81463695	0.807375073	0.001994913	1.652701259	39.66483	8.698996544	8.622192383	0.034996945	28.9810505	695.5452271	24	19874.5415
	27	481.5138	827.7611694	3.370408	14.93691	0.73180598	0.72369957	0.001788161	1.480536222	35.53287	8.879286766	8.785793304	0.035660997	29.5203037	708.4873047	24	19866.26807
	28	481.2442	827.2982788	3.394828	14.89371	0.80191815	0.787506878	0.001945821	1.610349178	38.64838	8.57212925	8.421349525	0.034181748	28.2863426	678.8721924	24	19855.15869
	29	481.3214	827.430603	3.360743	14.95401	0.87250739	0.865326464	0.002138102	1.770920396	42.50209	8.336194992	8.271370888	0.033573005	27.7812252	666.7493896	24	19858.33447
	30	476.3351	818.8587036	3.381347	14.91756	0.95979011	0.946467578	0.002338591	1.915677547	45.97626	8.152887344	8.042472839	0.032643918	26.7349281	641.6383057	24	19652.60889
	31	478.4862	822.5567627	3.376958	14.92533	0.9070065	0.895319045	0.00221221	1.821116686	43.7068	8.273397446	8.169946671	0.033161305	27.2783165	654.6796265	24	19741.3623
Aug 02	01	479.0495	823.5249023	3.377148	14.92499	0.81940657	0.808974743	0.001998865	1.647194147	39.53266	8.423001289	8.317461967	0.033760082	27.8019505	667.2468262	24	19764.59766
	02	477.506	820.8707275	3.384716	14.9116	0.75469965	0.743470907	0.001837014	1.508545399	36.20509	8.422682762	8.299198151	0.033685941	27.6557159	663.7371826	24	19700.89746
	03	320.6519	734.9689331	3.013019	13.82757	2.64246774	6.654340267	0.016441969	4.436994553	79.8659	8.63907814	8.938051224	0.036279004	28.4625568	512.3259888	17.72778	13029.3657
	04	490.4813	843.1762695	3.394384	14.8945	0.7440477	0.730823338	0.001805765	1.523284554	36.55883	9.806801796	9.63472271	0.039106753	32.9743958	791.385498	24	20236.23047
	05	490.7335	843.6106567	3.37931	14.92116	0.72481066	0.715114951	0.001766952	1.491624117	35.79898	9.811730385	9.682394981	0.039300252	33.1540985	795.6984253	24	20246.65576
	06	493.4783	848.3286133	3.383509	14.91374	0.65835506	0.648898721	0.00160334	1.361519337	32.67646	9.929859161	9.786860466	0.039724272	33.699749	808.7940063	24	20359.88672
	07	492.3657	846.4160156	3.378993	14.92173	0.73260075	0.722792804	0.001785922	1.511975408	36.28741	9.73541832	9.608052254	0.038998514	33.0099487	792.2388306	24	20313.98438
	08	488.7228	840.1538086	3.390693	14.90102	0.76217186	0.749568343	0.00185208	1.556988358	37.36772	9.531918526	9.37496376	0.03805241	31.9743042	767.3833008	24	20163.69141
	09	483.775	831.6479492	3.390948	14.90057	0.7364164	0.724183023	0.001789357	1.489470005	35.74728	9.333662987	9.179304123	0.03725823	30.9913425	743.7921753	24	19959.55078
	10	481.4257	827.6100464	3.387005	14.90755	0.72353852	0.712120712	0.001759553	1.456957936	34.96699	9.320151329	9.176909447	0.037248526	30.8299713	739.9193115	24	19862.64111
	11	482.6538	829.7211304	3.384969	14.91115	0.73832411	0.727072656	0.001796497	1.491461277	35.79507	9.226348877	9.089719772	0.036894631	30.615345	734.7683105	24	19913.30713
	12	481.6726	828.0349731	3.379458	14.9209	0.8501966	0.83893609	0.002072895	1.71648705	41.19569	9.1866045	9.065140724	0.036794849	30.4689541	731.2548828	24	19872.83936
	13	480.0218	825.1966553	3.375877	14.92724	0.74945337	0.740270495	0.001829107	1.509158373	36.2198	9.10679245	8.996395111	0.03651581	30.1353168	723.2476196	24	19804.71973
	14	480.1376	825.3950195	3.391839	14.899	0.74436551	0.731634498	0.001807769	1.49337244	35.84094	9.087396622	8.934492111	0.036264561	29.936491	718.4758301	24	19809.48047
	15	478.6427	822.8258057	3.390885	14.90069	0.69953197	0.687771857	0.00169939	1.399355054	33.58452	9.034453392	8.884725571	0.03606255	29.6745872	712.1901245	24	19747.81934
	16	478.253	822.1552734	3.391203	14.90012	0.70764035	0.695457518	0.001718379	1.413414598	33.92195	8.854167938	8.707156181	0.035341822	29.0609875	697.4636841	24	19731.72656
	17	478.5113	822.5990601	3.396607	14.89056	0.82592493	0.810450077	0.002002512	1.648350477	39.56041	8.590888977	8.434667587	0.034235805	28.161871	675.8848877	24	19742.37744
	18	478.7696	823.0431519	3.001946	15.58883	0.63498431	0.698698282	0.001726388	1.421629786	34.11911	8.181502342	9.166460991	0.037206095	30.6267414	735.0418091	24	19753.03564
	19	481.1842	827.1943359	3.374224	14.93016	0.68384552	0.675592482	0.001669297	1.381437063	33.15449	9.077009201	8.970836639	0.036412083	30.1217289	722.9215088	24	19852.66406
	20	484.3411	832.6209717	3.379249	14.92128	0.74229914	0.732052147	0.001808799	1.507432938	36.17839	9.150035858	9.029515266	0.036650255	30.5161667	732.3880005	24	19982.90332
	21	488.3052	839.4359131	3.381599	14.91711	0.66980189	0.660430372	0.001631832	1.370514631	32.89235	9.40441227	9.274312019	0.037643872	31.6030884	758.4741211	24	20146.46191
	22	488.2145	839.2799683	3.393683	14.89574	0.80589259	0.791561842	0.00195584	1.64258039	39.42193	9.239545822	9.079302788	0.036852326	30.9340248	742.416626	24	20142.71924
	23	488.8796	840.4228516	3.384779	14.91149	0.8179754	0.80550319	0.001990288	1.674790025	40.19496	9.042880058	8.908705711	0.036159877	30.3954582	729.4910278	24	20170.14844
	24	486.6685	836.6210938	3.376385	14.92634	0.82942235	0.818937898	0.002023482	1.693851709	40.65244	8.85575676	8.746572495	0.035501786	29.7029591	712.8709717	24	20078.90625
	25	486.1647	835.7567139	3.37168	14.93466	0.86169636	0.851835072	0.002104766	1.760292053	42.24701	8.870700836	8.773598671	0.035611499	29.7628117	714.3074951	24	20058.16113
	26	486.7418	836.7487183	3.367355	14.94231	0.81320602	0.805033982	0.001989127	1.665536284	39.97287	8.97881031	8.892074585	0.036092374	30.2033043	724.8792725	24	20081.96924
	27	482.4041	829.2914429	3.373269	14.93185	0.75931025	0.750412822	0.001854166	1.538382888	36.92119	8.967362404	8.866106033	0.035986975	29.8477249	716.3453979	24	19902.99463
	28	480.6097	826.2073975	3.393175	14.89664	0.77807027	0.764716506	0.00188951	1.561755419	37.48213	8.944628716	8.791242599	0.035683114	29.483984	707.6156006	24	19828.97754
	29	481.8551	828.3467407	3.402778	14.87965	0.80525678	0.788974226	0.001949446	1.615488768	38.77173	8.717598915	8.543136597	0.034676064	28.7268085	689.4434204	24	19880.32178
	30	480.3327	825.7302856	3.408563	14.86941	0.87854844	0.859347343	0.002123327	1.754070401	42.09769	8.631905556	8.445471764	0.034279674	28.3082409	679.3978271	24	19817.52686
	31	477.8517	821.4656982	3.409964	14.86694	0.82528865	0.806869566	0.001993662	1.638442874	39.32263	8.610762596	8.42100811	0.034180362	28.0788498	673.892395	24	19715.17676
Sep 02	01	477.6098	821.0501099	3.405194	14.87537	0.84675145	0.828847885	0.002047969	1.683653355	40.40768	8.471173286	8.296167374	0.033673629	27.6508007	663.6192017	24	19705.20264
	02	476.3232	818.8398438	3.390122	14.90204	0.83864355	0.82455188	0.002037354	1.669349194	40.06438	8.524272919	8.385466576	0.034036111	27.8695374	668.8688965	24	19652.15625
	03	477.7968	821.3712769	3.375282	14.92829	0.76179647	0.753334343	0.001861383	1.530090809	33.662	8.862490654	8.751667023	0.035522476	29.1901779	642.1838989	24	19712.91064
	04	478.7062	822.9345703	3.376067	14.9269	0.78697348	0.777137101	0.001920198	1.580739141	37.93774	8.607898712	8.503565788	0.034515459	28.410862	681.8607178	24	19750.42969
	05	488.4564	839.6955566	3.385034	14.91104	0.91988456	0.905907333	0.002238372	1.880105019	45.12252	8.888666153	8.75663662	0.035542663	29.8499699	716.399292	24	20152.69336
	06	487.9312	838.7937012	3.376258	14.92656	0.86646581	0.855515778	0.002113861	1.774185419	42.58045	9.016807556	8.906398773	0.036150526	30.3234997	727.7639771	24	20131.04883
	07	481.6206	827.9452515	3.390567	14.90125	0.75978702	0.747183442	0.001846187	1.520866275	36.50079	9.903622627	9.73903656	0.039530151	32.610836	782.6600952	24	19870.68604
	08	487.2364	837.5987549	3.394765	14.89382	0.8628093	0.847437978	0.002093901	1.756265402	42.15037	9.339227676	9.173905373	0.037236314	31.1874046	748.4976807	24	20102.37012
	09	485.3595	834.3729248	3.38338	14.91396	0.76614648	0.754955709	0.001865391	1.558691621	37.4086	9.222693443	9.090363503	0.036897238	30.7910576	738.9854126	24	20024.9502
	10	480.6263	826.2357178	3.376386	14.92634	0.72369772	0.714508235	0.001765451	1.459341288	35.02419	9.024438858	8.913366318	0.036178805	29.8951244	717.4830322	24	19829.65723
	11	479.7831	824.7858276	3.38001	14.91992	0.72274381	0.712746978	0.001761099	1.453580022	34.88592	8.995661736	8.875531197	0.036025245	29.7127171	713.1052246	24	19794.85986
	12	480.9175	826.7362671	3.387642	14.90643	0.77330106	0.760842681	0.001879936	1.555304527	37.32731	9.028731346	8.888115883	0.036076326	29.8294258	715.906189	24	19841.67041
	13	480.9592	826.8071899	3.385861	14.90957	0.80064607	0.788368642	0.00194795	1.611357093	38.67257	8.869111061	8.735088348	0.035455186	29.3156204	703.5748901	24	19843.37256
	14	336.5765	730.8491211	2.982535	13.42316	1.43066168	2.797613382	0.006912522	2.740050077	52.06096	8.918725967	9.287781715	0.037698533	29.5105419	560.7002563	18.79167	13733.874

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	486.4675	836.2763062	3.378931	14.92184	0.73562157	0.725749314	0.001793227	1.500814199	36.01954	9.59551239	9.470127106	0.038438674	32.1479836	771.5515747	24	20070.63135
	16	492.9673	847.4502563	3.389867	14.90249	0.81193388	0.79854995	0.001973107	1.673923373	40.17416	9.624127388	9.467735291	0.038428955	32.5656013	781.5744019	24	20338.80615
	17	492.8515	847.25177	3.385925	14.90946	0.83943832	0.826592267	0.002042395	1.731686234	41.56047	9.545589447	9.401704788	0.03816095	32.3350639	776.0415039	24	20334.04248
	18	487.9341	838.7982788	3.397435	14.8891	0.8033489	0.788210988	0.00194756	1.635093689	39.24225	9.305523872	9.134422302	0.037076056	31.1028709	746.4688721	24	20131.15869
	19	483.3957	830.9961548	3.389106	14.90384	0.76741838	0.754871428	0.001865184	1.550815463	37.21957	9.100750923	8.954892159	0.036347356	30.2056541	724.9356689	24	19943.90771
	20	483.5027	831.180481	3.383635	14.91351	0.81797522	0.805982888	0.001991472	1.656087875	39.74611	9.080242157	8.949346542	0.036324851	30.198616	724.7667847	24	19948.33154
	21	484.4066	832.7342529	3.385797	14.90969	0.88252342	0.868937075	0.002147023	1.789170384	42.94009	8.874834061	8.741000175	0.035479184	29.5465469	709.1171265	24	19985.62207
	22	483.5142	831.1992188	3.382999	14.91464	1.00080776	0.986626267	0.002437818	2.025593281	48.61424	8.767521858	8.642289162	0.035078526	29.1601086	699.8425903	24	19948.78125
	23	480.6454	826.2686768	3.374818	14.92911	0.76068819	0.751165569	0.001856029	1.537659764	36.90383	8.697144508	8.593847275	0.034881908	28.8248672	691.796814	24	19830.44824
	24	482.1268	828.8143921	3.383189	14.9143	0.95279372	0.938480437	0.002318857	1.921856284	46.12455	8.78182888	8.656195641	0.035134967	29.1223927	698.9373779	24	19891.54541
	25	482.8244	830.0137939	3.392157	14.89844	1.02227008	1.004721165	0.002482529	2.059942007	49.43861	8.99327755	8.841368675	0.035886567	29.786499	714.8759766	24	19920.33105
	26	485.6562	834.8830566	3.383125	14.91441	1.19270146	1.175881743	0.002905441	2.426646233	58.23951	9.176586151	9.045369148	0.036714584	30.6552296	735.7255249	24	20037.19336
	27	487.6513	838.3117676	3.401568	14.88179	1.01448011	0.996916115	0.002463242	2.065717697	49.57722	9.403775215	9.219573021	0.037421688	31.3725204	752.9404907	24	20119.48242
	28	486.4999	836.3330688	3.406466	14.87313	0.83609992	0.819167018	0.002024049	1.695843458	40.70024	9.317129135	9.120656967	0.037020188	30.9605865	743.0540771	24	20071.99365
	29	486.1044	835.652832	3.372091	14.93394	0.94257569	0.930294633	0.002298632	1.922277331	42.2901	9.18138504	9.078375816	0.036848564	30.8041782	677.6918945	24	20055.66797
	30	490.5412	843.2801514	3.308191	15.04699	0.84410208	0.850387394	0.00210119	1.773260355	42.55825	9.073194504	9.146683693	0.03712583	31.3056965	751.3366699	24	20238.72363
Oct 02	01	495.7749	852.2768555	3.324111	15.01882	0.75883323	0.761290312	0.001881045	1.603506684	38.48416	9.529055595	9.560468674	0.038805354	33.0740471	793.7770996	24	20454.64453
	02	489.9561	842.2740479	3.345989	14.98011	0.7539047	0.751281142	0.001856311	1.564822435	37.55574	9.90759182	9.873250961	0.040074892	33.74049	809.7717896	24	20214.57715
	03	493.6207	848.5743408	3.324555	15.01802	0.719405	0.720878541	0.001781191	1.513860822	36.33266	9.538434982	9.567715645	0.038834758	32.9541435	790.8994141	24	20365.78418
	04	484.2	832.3800659	3.306815	15.04941	0.60382336	0.608509541	0.001503542	1.25374341	30.08984	9.603618622	9.685682297	0.039313592	32.7245255	785.3886108	24	19977.12158
	05	487.1592	837.4663086	3.337403	14.9953	0.73037511	0.72895956	0.001801158	1.511696696	36.28072	9.311882973	9.305150986	0.037769035	31.6295204	759.1085205	24	20099.19141
	06	483.374	830.9584351	3.33308	15.00295	0.74213994	0.741536498	0.001832235	1.524962902	36.59911	8.882624626	8.889057159	0.036080118	29.9778633	719.468689	24	19943.00244
	07	476.6126	819.3356934	3.327164	15.01341	0.67314065	0.674038649	0.001665455	1.366474152	32.79538	8.801384926	8.822526932	0.035810091	29.3375244	704.1005859	24	19664.05664
	08	477.412	820.7102661	3.352156	14.9692	0.67886406	0.674366355	0.001666267	1.370093346	32.88224	8.909651756	8.864622116	0.035980955	29.527216	708.6531982	24	19697.04639
	09	481.8712	828.375	3.392348	14.8981	0.71972311	0.707434118	0.001747973	1.448569179	34.76566	8.909174919	8.758172989	0.035548881	29.4500751	706.8018188	24	19881
	10	485.5084	834.6280518	3.40653	14.87301	0.74182194	0.725913644	0.001793634	1.497799993	35.9472	9.051465988	8.86088562	0.035965782	30.0219784	720.5275269	24	20031.07324
	11	489.6563	841.7594604	3.396862	14.89011	0.83450973	0.818912983	0.00202342	1.704102993	40.89847	8.939064026	8.774614334	0.03561563	29.9829292	719.590271	24	20202.22705
	12	488.8019	840.2905884	3.397053	14.88978	0.98331881	0.964914024	0.00238417	2.004368782	48.10485	8.61521244	8.457139969	0.034327	28.8467541	692.3220825	24	20166.97412
	13	486.077	835.6055908	3.393302	14.89641	0.95708603	0.940238059	0.0023232	1.942595482	46.62229	8.574831009	8.426681519	0.03420338	28.5824032	685.9777222	24	20054.53418
	14	485.8301	835.180603	3.388977	14.90406	0.92846984	0.913051784	0.002256025	1.885649204	45.25558	8.699634552	8.560510635	0.034746587	29.0215797	696.5178833	24	20044.33447
	15	487.8576	838.6660767	3.38834	14.90519	0.89730841	0.882606149	0.002180798	1.830250025	43.926	8.950987816	8.809297562	0.035756413	29.9893837	719.7451782	24	20127.98584
	16	490.1811	842.661377	3.403349	14.87864	0.87457436	0.856843054	0.00211714	1.785107493	42.84258	9.179607391	8.994791985	0.036509313	30.7678299	738.4279175	24	20223.87305
	17	487.0933	837.3530273	3.38478	14.91149	0.87059927	0.857313216	0.002118303	1.774502516	42.58806	9.109334946	8.974692345	0.036427729	30.5054283	732.1303101	24	20096.47266
	18	414.7769	744.0376587	2.551293	14.34239	1.72317362	5.507931232	0.013609401	4.840520859	111.332	7.301122189	9.196428299	0.037327737	29.4602737	677.5863037	22.35	16629.24196
	19	489.2497	841.0603638	3.39807	14.88797	0.99921757	0.980396688	0.002422426	2.038370371	48.92089	9.244473457	9.072313309	0.036823962	30.9731045	743.3544922	24	20185.44873
	20	486.6924	836.6635132	3.395274	14.89293	0.91781759	0.901120663	0.002226545	1.864630818	44.75114	9.281675339	9.116321564	0.037002586	30.9615993	743.0784302	24	20079.92432
	21	484.5744	833.0222778	3.362669	14.9506	0.83376777	0.826545477	0.002042281	1.701966643	40.8472	9.397045135	9.319275856	0.037826363	31.5112743	756.2706299	24	19992.53467
	22	489.8704	842.1278076	3.354129	14.96571	0.8767994	0.871406972	0.002153126	1.814182043	43.54037	9.407273293	9.352632523	0.037961755	31.9696827	767.2723999	24	20211.06738
	23	490.9948	844.0593872	3.34529	14.98135	0.90589416	0.902731895	0.002230526	1.883975387	45.21541	9.343044281	9.313188553	0.037801668	31.9101162	765.8427734	24	20257.42529
	24	495.7344	852.2061157	3.341855	14.98742	0.95851755	0.95616436	0.002362551	2.013858795	48.33261	9.41108799	9.390958786	0.038117319	32.4849358	779.6384888	24	20452.94678
	25	493.0634	847.6155396	3.340201	14.99035	0.90986836	0.908417165	0.002244574	1.903194547	45.67667	9.525399208	9.510328293	0.038601834	32.7218475	785.3242798	24	20342.77295
	26	270.407	656.2399902	2.618598	12.57978	5.20338774	13.43592644	0.033198297	7.652179241	130.0871	9.65667057	10.44842052	0.042409513	32.6445274	554.9569702	16.83333	11046.70567
	27	501.2996	861.7745361	3.388278	14.9053	0.57679611	0.56759578	0.001402452	1.208949566	29.01479	12.00491238	11.81550026	0.047958404	41.3298912	991.9174194	23.9	20596.41108
	28	501.4012	861.9490967	3.394701	14.89394	0.60080272	0.590006173	0.001457826	1.257204533	30.17291	11.87502956	11.6656332	0.047350105	40.8141174	979.5388184	24	20686.77832
	29	499.7666	859.1391602	3.406529	14.87301	0.5839504	0.571445346	0.001411963	1.213672519	29.12814	11.92430401	11.6742878	0.047385234	40.7102432	977.0457764	24	20619.33984
	30	501.7356	862.5253906	3.423826	14.84241	0.58220148	0.566970646	0.001400907	1.208752871	29.01007	12.00952911	11.69717503	0.047478143	40.9514999	982.8359985	24	20700.60938
	31	505.8407	869.5811768	3.420584	14.84815	0.62687612	0.610932946	0.001509533	1.313244581	31.51787	12.09600449	11.79246712	0.047864925	41.6231689	998.9561157	24	20869.94824
Nov 02	1	505.8682	869.6282349	3.390312	14.9017	0.56677997	0.55726999	0.001376938	1.19803369	28.75281	12.05500031	11.85827541	0.048132017	41.8528328	1004.468018	24	20871.07764
	2	507.6983	872.7736816	3.392538	14.89776	0.64054859	0.629305422	0.001554927	1.358333707	32.60001	11.95563316	11.75277901	0.047703825	41.6314507	999.1547852	24	20946.56836
	3	506.3676	870.487854	3.396226	14.89124	0.63053274	0.619040608	0.001529565	1.331920028	31.96608	11.90395832	11.68899155	0.047444958	41.3026962	991.2647095	24	20891.7085
	4	503.9811	866.3839111	3.389655	14.90286	0.64521235	0.634504318	0.001567772	1.359269619	32.62247	11.82489586	11.63380814	0.047220927	40.9110794	981.8659058	24	20793.21387
	5	504.9533	868.0557251	3.38338	14.91396	0.67123282	0.661184609	0.001633695	1.419349551	34.06439	11.60840034	11.44388771	0.046449974	40.3190079	967.656189	24	20833.3374
	6	503.863	866.1808472	3.390439	14.90147	0.72894406	0.716773927	0.001771051	1.534570813	36.8297	11.52192497	11.33329582	0.046001151	39.84692	956.3261108	24	20788.34033

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	7	498.6459	857.2122803	3.392411	14.89799	0.65104175	0.639740229	0.00158071	1.356936693	32.56648	11.14559555	10.95651627	0.044471867	38.1371956	915.2927246	24	20573.09473
	8	477.8795	821.5128784	3.412061	14.86322	0.54166031	0.529058039	0.00130723	1.077032089	25.84877	10.68678284	10.44399166	0.042391591	34.8190613	835.6575317	24	19716.30908
	9	473.0661	813.2385864	3.434509	14.82351	0.54118317	0.525371611	0.001298122	1.061044574	25.46507	10.80044556	10.48619747	0.042562872	34.5894585	830.1469727	24	19517.72607
	10	490.9999	844.0687256	3.408628	14.8693	0.72544646	0.709788442	0.001753791	1.48195672	35.56696	10.66832924	10.43628311	0.042360272	35.7537155	858.0892334	24	20257.64941
	11	494.912	850.7939453	3.393937	14.89529	0.80636978	0.792024493	0.001956984	1.665862083	39.98069	10.36482048	10.18395329	0.04133603	35.1703033	844.0872803	24	20419.05469
	12	487.121	837.4003296	3.403774	14.87789	0.76529872	0.749727726	0.001852473	1.552083373	37.25	10.21687698	10.01001835	0.040630046	34.0294609	816.7070923	24	20097.60791
	13	488.3076	839.4405518	3.418293	14.8522	0.78411186	0.764790535	0.001889691	1.586896658	38.08552	10.38199997	10.12811279	0.041109405	34.5097885	828.2348633	24	20146.57324
	14	488.7554	840.2103882	3.230311	15.18479	0.82640153	0.867218316	0.002142775	1.801627874	43.23907	9.902497292	10.24599457	0.041587863	34.9425049	838.6201172	24	20165.04932
	15	487.9593	838.8406982	3.421854	14.8459	0.81304705	0.791994393	0.001956909	1.642927527	39.43026	10.33939743	10.07649517	0.040899895	34.313282	823.5187988	24	20132.17676
	16	491.3429	844.6593018	3.425606	14.83926	0.88474941	0.860912859	0.002127198	1.796823382	43.12376	10.49186325	10.21472359	0.041460916	35.0332909	840.7990112	24	20271.82324
	17	494.7003	850.4304199	3.424971	14.84039	0.87854827	0.855041981	0.002112692	1.797919154	43.15006	10.40346622	10.12913799	0.041113488	34.9671822	839.2124023	24	20410.33008
	18	494.9725	850.8977661	3.423382	14.8432	0.83456308	0.812647998	0.002007941	1.70908463	41.01803	10.1164484	9.854732513	0.039999772	34.0375748	816.9017944	24	20421.54639
	19	494.2218	849.6085205	3.424082	14.84196	0.95215827	0.926691711	0.002289728	1.946760893	46.72226	9.814435005	9.557985306	0.038795277	32.9622154	791.0932007	24	20390.60449
	20	486.0624	835.5819702	3.408883	14.86885	0.82067812	0.802736044	0.001983452	1.659791231	39.83499	9.799529076	9.584939003	0.038904686	32.4853592	747.163269	24	20053.96728
	21	483.5414	831.246582	3.415687	14.85681	0.79603589	0.776517749	0.001918668	1.596038699	38.30493	10.01635075	9.78092289	0.039700143	33.004467	792.1072388	24	19949.91797
	22	485.3797	834.406189	3.42618	14.83825	0.793015	0.771627188	0.001906584	1.591309547	38.19143	10.104743	9.835463524	0.039921522	33.3135681	799.5255737	24	20025.74854
	23	493.6325	848.5931396	3.427068	14.83667	0.74182195	0.721628964	0.001783047	1.513693333	36.32864	10.38868332	10.10900021	0.041031823	34.8195725	835.6696777	24	20366.23535
	24	495.1435	851.1907349	3.421029	14.84736	0.78983522	0.769780695	0.001902023	1.619594574	38.87027	10.3203125	10.06006813	0.040833198	34.7576408	834.1834106	24	20428.57764
	25	492.8622	847.270813	3.411362	14.86446	0.76407969	0.746849716	0.001845362	1.563748717	37.52997	10.46244621	10.2276001	0.041513264	35.1729355	844.1505127	24	20334.49951
	26	496.0552	852.7585449	3.408945	14.86874	0.7858606	0.768357754	0.001898506	1.619724631	38.87339	10.40917969	10.18284416	0.041331541	35.2469177	845.9260254	24	20466.20508
	27	497.9475	856.0126953	3.400995	14.8828	0.7260825	0.71138382	0.001757732	1.504651308	36.11163	10.68121243	10.47557068	0.042519659	36.4025307	873.6607056	24	20544.30469
	28	496.7091	853.8825684	3.409645	14.8675	0.76535165	0.748157144	0.001848594	1.579840779	37.91618	10.52031708	10.28922462	0.041763328	35.6625404	855.901001	24	20493.18164
	29	494.096	849.3913574	3.410535	14.86592	0.7211538	0.70515883	0.00174235	1.4805125	35.5323	10.70585823	10.46837044	0.042490467	36.0936165	866.2468262	24	20385.39258
	30	492.4368	846.5388184	3.418674	14.85153	0.65612918	0.639957488	0.001581248	1.338827968	32.13187	10.50282955	10.24531651	0.041585147	35.2040672	844.897583	24	20316.93164
Dec 02	01	494.2944	849.7313843	3.417912	14.85287	0.59937179	0.584634006	0.00144455	1.227872133	29.46893	10.46532059	10.21086216	0.041445252	35.2175217	845.22052	24	20393.55322
	02	494.8952	850.765686	3.402904	14.87943	0.61781412	0.605396092	0.001495851	1.272742867	30.54583	10.7069664	10.49258327	0.042588729	36.2362213	869.6693115	24	20418.37646
	03	495.6836	852.1208496	3.413335	14.86098	0.60843396	0.594382823	0.001468639	1.251792073	30.04301	10.57245445	10.32930851	0.041925982	35.7271042	857.4505005	24	20450.90039
	04	496.3025	853.1836548	3.418802	14.8513	0.62910187	0.613593519	0.001516107	1.293590426	31.04617	10.53065872	10.2716198	0.041691903	35.5747566	853.7941895	24	20476.40771
	05	495.6483	852.0596313	3.4099	14.86705	0.75978708	0.742697537	0.001835104	1.563832045	37.53197	10.59058285	10.35737038	0.042039938	35.8232918	859.7589722	24	20449.43115
	06	492.5391	846.7134399	3.412506	14.86244	0.63657415	0.621862888	0.001536539	1.30180335	31.24328	10.69599628	10.45259953	0.042426433	35.924633	862.1912231	24	20321.12256
	07	493.6404	848.6073608	3.425223	14.83994	0.6734587	0.655516446	0.001619693	1.375078797	33.00189	10.47007942	10.19355774	0.041375007	35.1119766	842.6873779	24	20366.57666
	08	325.4938	746.03302	2.95861	13.53679	4.00739479	12.86276722	0.031782001	8.143889427	146.59	9.518014908	9.95125103	0.040391471	32.4772949	584.5913086	17.54722	13090.80712
	09	504.6483	867.5316162	3.41098	14.86514	0.61415744	0.600281894	0.001483214	1.287765026	30.90636	11.11270428	10.86477947	0.044099495	38.2605324	918.2528076	24	20820.75879
	10	503.0825	864.8395386	3.414796	14.85839	0.60445935	0.590064228	0.001457967	1.261675835	30.28022	11.18646622	10.9313879	0.044369865	38.2692795	918.4627075	24	20756.14893
	11	504.2206	866.7947388	3.406403	14.87324	0.59698707	0.584270179	0.00144365	1.251501203	30.03603	10.82572937	10.59776688	0.04301573	37.2860451	894.8651123	24	20803.07373
	12	504.8247	867.8336792	3.398706	14.88685	0.64356953	0.631233633	0.001559693	1.353741288	32.48979	10.78630447	10.58426666	0.042960905	37.2868996	894.8856201	24	20828.0083
	13	503.3326	865.2692871	3.40284	14.87954	0.63148671	0.618669987	0.001528649	1.323090434	31.75417	10.77740383	10.56260014	0.04287295	37.0980339	890.3527832	24	20766.46289
	14	501.8213	862.6716309	3.408755	14.86907	0.62210655	0.60838443	0.001503235	1.297506213	31.14015	10.79424953	10.56027889	0.042863544	36.9775429	887.4609985	24	20704.11914
	15	501.2107	861.62323	3.425924	14.8387	0.54499924	0.530393958	0.001310531	1.129426241	27.10623	10.64290047	10.36030388	0.042051818	36.234539	869.6289063	24	20678.95752
	16	500.7031	860.7496338	3.37522	14.9284	0.54367411	0.537148178	0.00132722	1.142870784	27.4289	10.75520039	10.62754631	0.043136474	37.1328049	891.1873169	24	20657.99121
	17	508.3157	873.8363037	3.38423	14.91246	0.62194765	0.612839758	0.001514242	1.323952198	30.4509	10.58173466	10.42730427	0.042323779	36.9907646	850.7875977	24	20972.07129
	18	514.5109	884.486145	3.390631	14.90114	0.72274375	0.710742891	0.001756148	1.553525805	37.28462	10.35721207	10.18650436	0.041346423	36.5708733	877.7009888	24	21227.66748
	19	506.0275	869.9020996	3.178927	15.2757	0.63736904	0.665576518	0.001644548	1.430484533	34.33163	10.03001308	10.53797913	0.042773012	37.1972466	892.7338867	24	20877.65039
	20	488.9262	840.5031738	3.218673	15.20537	0.60795707	0.631792247	0.001561073	1.309455037	31.42692	10.03127384	10.42090416	0.042297836	35.4878426	851.7081909	24	20172.07617
	21	502.8846	864.4995728	3.370154	14.93736	0.58474505	0.578526855	0.001429461	1.236257553	29.67018	10.41014957	10.30092525	0.04181084	36.1454124	867.4899292	24	20747.98975
	22	497.7338	855.6443481	3.412507	14.86244	0.72703624	0.710169196	0.00175473	1.500361681	36.00868	10.59345436	10.35127449	0.042015199	35.9443893	862.6652832	24	20535.46436
	23	485.2393	834.1651611	3.444049	14.80664	0.76296693	0.738323092	0.001824293	1.519704223	36.4729	10.91379166	10.56780052	0.042894088	35.7795563	858.7092896	24	20019.96387
	24	481.8847	828.3986816	3.456705	14.78425	0.77981913	0.752146065	0.00185845	1.539364576	36.94475	10.6373415	10.26210785	0.041653238	34.5065041	828.1561279	24	19881.56836
	25	479.3788	824.0914917	3.446148	14.80293	0.86646646	0.838045478	0.002070695	1.705917478	40.94202	10.61475849	10.27129555	0.041690607	34.3576126	824.5827026	24	19778.1958
	26	488.5139	839.7947388	3.39133	14.8999	0.65835524	0.646072507	0.001596355	1.337512016	32.10029	10.25418854	10.08239269	0.040923834	34.3649979	824.7598877	24	20155.07373
	27	493.5328	848.4232178	3.383318	14.91407	0.5798167	0.571154654	0.001411245	1.19850409	28.7641	9.808706284	9.666350365	0.039235134	33.2721214	798.5308838	24	20362.15723
	28	494.8211	850.6381836	3.379375	14.92105	0.53879851	0.531185687	0.001312486	1.116671562	26.80012	10.29884911	10.16442966	0.041256785	35.0958786	842.3010864	24	20415.31641
	29	482.4781	829.4189453	3.450091	14.79595	0.61304456	0.592351735	0.00146362	1.213282466	29.11878	10.57675362	10.22296238	0.041494355	34.4130058	825.9121094	24	19906.05469

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	487.9308	838.793396	3.394064	14.89507	0.6472261	0.633767903	0.001565954	1.313363314	31.52072	10.2031641	10.03632832	0.040736869	34.1526833	819.6644287	24	20131.0415
	31	495.5241	851.847168	3.257528	15.13664	0.55835378	0.569403231	0.001406917	1.197057486	28.72938	9.820480347	10.08527374	0.040935487	34.8709221	836.9020996	24	20444.33203
Jan 03	01	478.6871	822.9013672	3.455814	14.78582	0.63418937	0.611747503	0.001511544	1.243049145	29.83318	10.45338249	10.08639622	0.040940005	33.6814232	808.354187	24	19749.63281
	02	489.6616	841.7688599	3.432793	14.82655	0.71988213	0.698950946	0.001727012	1.452014208	34.84834	10.05005264	9.761063576	0.039619569	33.3269577	799.8469849	24	20202.45264
	03	384.2937	720.6899414	2.931095	13.57668	5.22618628	25.12940025	0.062091317	6.210424423	136.6293	8.95388031	9.418463707	0.038228974	29.6691093	652.7203979	20.87222	15042.4011
	04	500.324	860.0979614	3.430121	14.83127	0.84818274	0.824069917	0.002036164	1.750126719	42.00304	10.16356277	9.880496025	0.040104337	34.4909782	827.7835083	24	20642.35107
	05	499.8186	859.2288818	3.428278	14.83454	0.84134597	0.818346679	0.002022022	1.737160444	41.69185	10.45895386	10.17290401	0.041291177	35.4669113	851.2059326	24	20621.49316
	06	500.0247	859.5831909	3.417912	14.85287	0.7305339	0.712591052	0.001760715	1.512249947	36.294	10.29153633	10.04000378	0.040751785	35.0185776	840.4459229	24	20629.99658
	07	502.646	864.088562	3.419247	14.85051	0.87966132	0.857195437	0.002118011	1.826034188	43.82482	10.31172943	10.05588722	0.040816266	35.2598839	846.2371826	24	20738.12549
	08	502.7086	864.1972046	3.409708	14.86739	0.78888106	0.771343946	0.001905883	1.646607041	39.51857	10.19186974	9.967534065	0.040457625	34.9645844	839.1500244	24	20740.73291
	09	501.9423	862.8793945	3.412189	14.863	0.69476241	0.678598583	0.001676724	1.447195888	34.7327	9.935416222	9.71134758	0.039417747	34.0135765	816.3258057	24	20709.10547
	10	502.6898	864.1642456	3.424716	14.84084	0.73053402	0.71108973	0.001757005	1.518880367	36.45313	9.713637352	9.458699226	0.03839229	33.1784439	796.2827148	24	20739.94189
	11	502.6104	864.0270996	3.422299	14.84511	0.77632159	0.756231606	0.001868543	1.61472249	38.75334	9.782159805	9.532025337	0.038689911	33.4311371	802.34729	24	20736.65039
	12	503.6101	865.7462769	3.427069	14.83667	0.83498681	0.812270641	0.002007009	1.73797214	41.71133	9.780408859	9.517035484	0.038629059	33.4442215	802.6613159	24	20777.91064
	13	505.6011	869.170166	3.404431	14.87673	0.84532064	0.827879608	0.002045577	1.778368711	42.68085	9.799965858	9.599122047	0.038962252	33.8683434	812.84021	24	20860.08398
	14	502.8709	864.475769	3.42249	14.84478	0.93276244	0.908477485	0.002244723	1.941036701	46.58488	10.16880512	9.907197952	0.040212709	34.7488403	833.972168	24	20747.41846
	15	501.8792	862.7709351	3.421919	14.84579	0.86058319	0.838510275	0.002071843	1.787727952	42.90547	10.01793385	9.761443138	0.039621107	34.1729012	820.1495972	24	20706.50244
	16	489.2476	841.0556641	3.427705	14.83555	0.92290539	0.897366941	0.00221727	1.862355471	44.69653	10.1414566	9.864325523	0.040038671	33.6448517	807.4763794	24	20185.33594
	17	490.4778	843.1715698	3.438771	14.81598	1.01400411	0.982833326	0.002428445	2.043093443	49.03424	10.40140438	10.08632088	0.040939756	34.5105057	828.2520752	24	20236.11768
	18	28.90942	298.1849976	1.340433	10.69094	37.4885216	126.4591675	0.312463433	39.60624695	158.425	5.543155193	8.644397736	0.035087101	16.2131634	64.8526535	3.388889	1010.51588
	19	512.2557	880.6087036	3.423572	14.84286	0.95009154	0.925194621	0.002286029	2.012440443	48.29857	10.66150379	10.38476276	0.042151101	37.1190948	890.8582764	24	21134.60889
	20	491.8273	845.4903564	3.458676	14.78076	1.15756738	1.115304112	0.002755763	2.323081732	55.75396	10.89042473	10.49934196	0.04261623	36.0182114	864.4371338	24	20291.76855
	21	502.017	863.006897	3.44513	14.80472	1.0458014	1.011517882	0.00249932	2.155795097	51.73908	10.27850437	9.946520805	0.04037232	34.8225479	835.7410889	24	20712.16553
	22	509.9099	876.5755005	3.416957	14.85456	0.87934333	0.857889235	0.002119725	1.859367132	44.62481	9.851153374	9.6147089	0.039025515	34.2131271	821.1149902	24	21037.81201
	23	506.8163	871.2576904	3.410982	14.86514	0.81654459	0.79789722	0.001971493	1.718948722	41.25477	9.7269907	9.509825706	0.038599808	33.6307907	807.1389771	24	20910.18457
	24	505.9948	869.8457031	3.413205	14.8612	0.82862753	0.809390545	0.001999892	1.740096211	41.76231	9.716341972	9.493069649	0.03853178	33.517086	804.4100952	24	20876.29688
	25	506.9372	871.4655762	3.418611	14.85164	0.81129801	0.791217983	0.001954991	1.704141617	40.8994	9.755765915	9.51638031	0.038626403	33.6611252	807.8670044	24	20915.17383
	26	505.1099	868.3250122	3.405512	14.87481	0.78061408	0.764180481	0.001888184	1.640084147	39.36202	9.891539574	9.686115265	0.039315347	34.138649	819.3275757	24	20839.80029
	27	506.058	869.9542236	3.396607	14.89056	0.88586229	0.869594216	0.002148648	1.870975018	44.9034	10.25751972	10.07069969	0.040876325	35.5634117	853.5219116	24	20878.90137
	28	504.5988	867.4465332	3.381663	14.917	0.78866935	0.777553916	0.001921228	1.666700363	40.00081	10.13732147	9.997091293	0.040577576	35.1986656	844.7680054	24	20818.7168
	29	503.6322	865.7841187	3.391965	14.89878	2.39065242	2.338030577	0.005776947	4.834363937	116.0247	10.31157398	10.13625813	0.041142456	35.5634346	853.5223999	24	20778.81885
	30	504.583	867.4181519	3.415943	14.85636	0.89762652	0.875891745	0.002164207	1.878037095	45.07289	10.00155926	9.763886452	0.039631024	34.3780403	825.072998	24	20818.03564
	31	504.7581	867.7203369	3.405258	14.87526	0.89842218	0.879630983	0.002173447	1.887739182	45.30574	10.28502941	10.07198238	0.040881537	35.4767113	851.4411011	24	20825.28809
Feb 03	01	507.3433	872.1644287	3.405256	14.87526	0.83769011	0.820795536	0.002028072	1.769299626	42.46319	10.69012547	10.46923351	0.042493954	37.0624008	889.4976196	24	20931.94629
	02	495.7419	852.2202759	3.426497	14.83769	0.72687739	0.706647396	0.001746029	1.488558769	35.72541	11.04767036	10.75249577	0.043643717	37.178463	892.2830811	24	20453.28662
	03	501.1677	861.5478516	3.403667	14.87807	0.72687727	0.71186161	0.001758912	1.513837457	36.3321	10.96260834	10.7399292	0.043592747	37.5472984	901.1351929	24	20677.14844
	04	504.5773	867.4087524	3.388723	14.90451	0.7357806	0.723445773	0.001787534	1.54772079	37.1453	10.86881256	10.69482517	0.043409683	37.6453133	903.4874878	24	20817.81006
	05	499.2971	858.3314209	3.399469	14.8855	0.70748121	0.693308949	0.00171307	1.467029572	35.20871	11.08455849	10.87230015	0.044130009	37.8642235	908.741394	24	20599.9541
	06	497.3016	854.902832	3.391521	14.89956	0.62353724	0.612079024	0.001512364	1.293018937	31.03245	11.39345455	11.20192528	0.045467928	38.8440475	932.2570801	24	20517.66797
	07	496.8542	854.1332397	3.316736	15.03187	0.31192771	0.314211786	0.000776374	0.668805063	16.05132	11.50522232	11.54675007	0.046867553	39.9832573	959.5982056	24	20499.19775
	08	493.3544	848.1162109	3.410535	14.86592	0.42019609	0.411205888	0.001016034	0.865215838	20.76518	11.60269547	11.34141636	0.046034079	38.9941025	935.8585205	24	20354.78906
	09	491.951	845.7029419	3.405321	14.87515	0.40827221	0.399977744	0.000988291	0.838716924	20.12921	11.30314636	11.06446266	0.044909924	37.9332123	910.3970947	24	20296.87061
	10	500.1457	859.7907715	3.363286	14.94951	0.60981172	0.604712725	0.001494162	1.288117528	30.91482	10.7386713	10.64507103	0.043207716	37.1218796	890.9251099	24	20634.97852
	11	497.3076	854.9123535	3.39114	14.90024	0.69094682	0.679978848	0.001680133	1.437580466	34.50193	10.31555462	10.14591217	0.041181643	35.2066307	844.9591064	24	20517.89648
	12	492.6432	846.8930054	3.397308	14.88933	0.51749462	0.507971346	0.001255126	1.063150287	25.51561	9.92555809	9.743396759	0.039547853	33.4914818	803.7955933	24	20325.43213
	13	498.9008	857.6514893	3.430631	14.83037	0.70954812	0.689472437	0.001703592	1.462037921	35.08891	9.827470779	9.553103447	0.038775455	33.2587318	798.2095947	24	20583.63574
	14	503.6319	865.7840576	3.428723	14.83375	0.73101079	0.710657179	0.001755936	1.521383286	36.5132	9.856562614	9.586663246	0.038911678	33.6894073	808.5457764	24	20778.81738
	15	501.4456	862.0247192	3.42442	14.84136	0.80525661	0.783814073	0.001936696	1.670112133	40.08269	9.824662209	9.567522049	0.038833991	33.4767532	803.4420776	24	20688.59326
	16	499.8544	859.2902222	3.438643	14.8162	0.73784721	0.715311706	0.001767436	1.519595385	36.47029	10.07565784	9.770866394	0.039659359	34.0717812	817.7227783	24	20622.96533
	17	498.3086	856.6313477	3.431649	14.82858	0.81765741	0.79448843	0.001963071	1.681565046	40.35756	10.39328289	10.09793186	0.040986899	35.0905609	842.1735229	24	20559.15234
	18	503.6952	865.8927002	3.412443	14.86255	0.84420818	0.824256241	0.002036622	1.763161659	42.31588	10.23684883	10.00310421	0.040601987	35.1496048	843.5905151	24	20781.4248
	19	500.7173	860.7731934	3.413907	14.85996	0.79555863	0.776761293	0.001919271	1.650334597	39.60803	10.52651691	10.28097534	0.041729823	35.9030266	861.6726074	24	20658.55664
	20	490.1542	842.6141968	3.444622	14.80562	0.83816642	0.811017454	0.002003912	1.686450005	40.4748	10.59887505	10.25929356	0.041641828	35.0693665	841.6647949	24	20222.74072

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	497.7065	855.5970459	3.427135	14.83656	0.84500307	0.821875095	0.00203074	1.737031698	41.68876	10.38326836	10.10108852	0.040999729	35.0568428	841.3641968	24	20534.3291
	22	503.5084	865.5714722	3.407167	14.87189	0.77473152	0.758117139	0.001873203	1.622198343	38.93276	10.14003468	9.924675941	0.040283661	34.8698921	836.8773804	24	20773.71533
	23	501.1754	861.5620117	3.392092	14.89855	0.66630423	0.654644132	0.001617536	1.394411683	33.46588	10.33319187	10.1589613	0.041234583	35.5275345	852.6607666	24	20677.48828
	24	498.5987	857.131897	3.364239	14.94782	0.6351434	0.629309952	0.001554938	1.333846688	32.01232	10.4878912	10.39641666	0.042198438	36.1687546	868.0501099	24	20571.16553
	25	501.154	861.524231	3.374668	14.92937	0.64134377	0.633619905	0.001565588	1.349333286	32.384	10.56005383	10.43533325	0.042356342	36.489624	875.7509766	24	20676.58154
	26	503.1378	864.93396	3.375306	14.92825	0.71097893	0.702037275	0.001734638	1.500859141	36.02062	10.46642494	10.34052944	0.041971594	36.293045	871.0330811	24	20758.41504
	27	504.4502	867.1914673	3.365066	14.94636	0.73816526	0.731442273	0.001807294	1.567055821	37.60934	10.56054592	10.46469593	0.042475574	36.8224106	883.737915	24	20812.59521
	28	500.0904	859.6964722	3.374414	14.92982	0.69412661	0.685541391	0.001693878	1.455364943	34.92876	10.54925823	10.42436695	0.042311899	36.3642616	872.7423096	24	20632.71533
Mar 03	01	505.2668	868.5941162	3.36939	14.93871	0.65756023	0.650867224	0.001608204	1.39746213	33.53909	10.46579552	10.35888767	0.042046119	36.5223961	876.5374756	24	20846.25879
	02	507.2173	871.9472046	3.362141	14.95154	0.75676632	0.750593185	0.001854612	1.617821693	38.82772	10.20966148	10.12682247	0.041104142	35.839962	860.1591187	24	20926.73291
	03	506.3161	870.3983154	3.361887	14.95199	0.70159864	0.696151972	0.001720097	1.497523308	35.94056	10.4826622	10.39826679	0.042205967	36.7363243	881.671814	24	20889.55957
	04	499.4016	858.5111084	3.39082	14.9008	0.68840301	0.676794529	0.001672268	1.434768796	34.43445	10.75815868	10.5795002	0.0429415	36.8536949	884.4887085	24	20604.2666
	05	503.2692	865.1606445	3.398705	14.88685	0.7696442	0.75466609	0.001864677	1.614655018	38.75172	10.42652035	10.22995377	0.041522715	35.9142342	861.9415894	24	20763.85547
	06	503.4395	865.4534912	3.386115	14.90913	0.75676626	0.744524598	0.001839617	1.593539596	38.24495	10.15450478	10.0008316	0.040592764	35.1339302	843.2142944	24	20770.88379
	07	502.3848	863.6399536	3.372443	14.93331	0.77457273	0.765390635	0.001891175	1.634634972	39.23124	10.13685799	10.02395058	0.0406866	35.1378403	843.3082275	24	20727.35889
	08	61.23641	420.9859924	1.649368	8.405838	0.52274001	0.617624164	0.001526065	1.052868366	6.31721	6.600406647	8.640934944	0.035072953	22.3779335	134.2675934	5.094444	2144.689478
	09	501.352	861.8641968	3.379438	14.92094	0.76900816	0.758684099	0.001874605	1.616042972	38.78503	9.843687057	9.713733673	0.039427452	33.9809914	815.5438232	24	20684.74072
	10	504.5603	867.3803101	3.383381	14.91396	0.7585153	0.747428596	0.001846793	1.603073716	38.47377	9.931758881	9.788962364	0.039732799	34.468441	827.2426147	24	20817.12744
	11	499.3846	858.482666	3.395845	14.89191	0.67981797	0.667303801	0.001648817	1.415670037	33.97608	9.837960243	9.662565231	0.039219756	33.6749496	808.1987915	24	20603.58398
	12	495.0054	850.9545898	3.403286	14.87875	0.69444454	0.680286169	0.001680895	1.430875063	34.341	9.57420826	9.381002426	0.038076915	32.4065094	777.7562256	24	20422.91016
	13	492.2033	846.1373901	3.382427	14.91565	0.63736892	0.627975583	0.001551641	1.314287901	31.54291	9.570233345	9.434643745	0.038294647	32.4090424	777.8170166	24	20307.29736
	14	458.118	787.5421143	3.114633	14.08319	1.5294311	4.581023693	0.01131909	2.916107416	69.98658	9.056870461	9.27848053	0.037660796	30.9612331	743.0695801	24	18901.01074
	15															0	0
	16															0	0
	17															0	0
	18															0	0
	19															0	0
	20	77.63741	457.3672791	1.803594	8.756486	8.30117321	16.54289436	0.040875241	11.61530685	81.30715	4.63653183	5.008375645	0.020328658	15.7126713	109.9887009	5.833333	2667.975649
	21	501.8794	862.7709961	3.353554	14.96673	3.57317758	3.550803423	0.008773549	7.574223995	181.7814	8.05129528	8.005461693	0.032493673	28.0275536	672.6613159	24	20706.50391
	22	495.6403	852.0454712	3.333205	15.00272	3.12579536	3.126899719	0.007726139	6.595129967	158.2831	7.955110073	7.958960533	0.032304935	27.5272255	660.6533813	24	20449.09131
	23	501.0271	861.3068237	3.344398	14.98293	3.94297552	3.929646969	0.009709629	8.377599716	201.0624	7.927129269	7.904379368	0.032083392	27.6324959	663.1798706	24	20671.36377
	24	507.1347	871.805481	3.364494	14.94738	4.54653358	4.506023407	0.011133762	9.707288742	232.9749	7.880069733	7.81040144	0.031701948	27.6378326	663.3079834	24	20923.33154
	25	509.0083	875.0265503	3.377657	14.92409	5.19163942	5.124979973	0.01266312	11.08380222	266.0113	7.775457382	7.676850796	0.031159854	27.2659874	654.383728	24	21000.63721
	26	506.453	870.6342773	3.360742	14.95401	5.08973026	5.048958778	0.012475279	10.86813545	260.8352	7.727602482	7.668426514	0.031125657	27.1012001	650.428833	24	20895.22266
	27	498.2391	856.5131836	3.373842	14.93084	4.60657644	4.54908514	0.011240162	9.599882126	230.3972	8.363382339	8.265674591	0.033549875	28.7254505	689.4108276	24	20556.31641
	28	508.0167	873.3215942	3.373523	14.9314	4.08240461	4.033856869	0.009967102	8.70627594	208.9506	8.257339478	8.163434982	0.033134896	28.9374886	694.4996948	24	20959.71826
	29	508.7331	874.5540771	3.387706	14.90631	4.42453861	4.354952335	0.010760499	9.418070793	226.0337	8.086909294	7.96073246	0.032312132	28.2633629	678.3206787	24	20989.29785
	30	505.3705	868.7734985	3.371299	14.93534	4.25601578	4.208183765	0.010397846	9.046399117	217.1136	7.923949718	7.838189602	0.031814728	27.64007	663.3616943	24	20850.56396
	31	500.5163	860.4284668	3.35839	14.95817	3.8172183	3.791062117	0.009367191	8.066914558	193.606	7.869417191	7.814489841	0.031718526	27.2917213	655.0012817	24	20650.2832
Apr 03	01	503.8382	866.1383057	3.383763	14.91329	3.89623332	3.840450048	0.009489221	8.221487999	197.3157	8.169102669	8.050720215	0.032677379	28.3019867	679.2476807	24	20787.31934
	02	494.3437	849.8163452	3.414288	14.85929	4.1272378	4.028902054	0.009954856	8.458046913	202.9931	8.497087479	8.298786163	0.033684265	28.605629	686.5350952	24	20395.59229
	03	488.4997	839.7711792	3.406909	14.87234	4.66460562	4.554473877	0.011253477	9.409761429	225.8343	8.535561562	8.356877327	0.033920057	28.4938755	683.8530273	24	20154.5083
	04	493.9646	849.1646729	3.402459	14.88021	4.70578241	4.606611729	0.01138231	9.626712799	231.0411	8.430315971	8.263095856	0.033539407	28.4741383	683.3792725	24	20379.95215
	05	520.0686	894.0402832	3.378165	14.92319	4.98702765	4.922319412	0.012162367	10.87586403	261.0208	8.176257133	8.071418762	0.032761391	29.2885551	702.925293	24	21456.9668
	06	473.5084	849.3903809	3.393254	14.8965	5.02020597	4.923689842	0.012165769	10.28595638	236.577	8.279085159	8.136142731	0.033024114	28.0430775	644.9907837	24	20385.36914
	07	509.8048	876.3960571	3.372825	14.93264	4.58861065	4.535656929	0.011206981	9.822323799	235.7358	7.947956085	7.859743118	0.031902224	27.9622993	671.0952148	24	21033.50537
	08	505.9231	869.7229004	3.381855	14.91666	4.58940601	4.524786472	0.011180127	9.733393669	233.6014	7.815998554	7.707307339	0.031283475	27.2087116	653.0090942	24	20873.34961
	09	503.0962	864.8630371	3.383699	14.9134	4.22755671	4.166038036	0.010293704	8.912970543	213.9113	7.870372295	7.757724285	0.031488121	27.2356548	653.6557007	24	20756.71289
	10	503.6184	865.7605591	3.402523	14.8801	4.47414303	4.384912491	0.010834517	9.381831169	225.1639	7.720766544	7.567131996	0.030714529	26.5913544	638.1925049	24	20778.25342
	11	504.4698	867.2244873	3.396481	14.89079	4.52310944	4.440880299	0.010972812	9.51885891	228.4526	7.692626476	7.553024292	0.030657267	26.5868702	638.0848999	24	20813.3877
	12	505.2961	868.6462402	3.390376	14.90159	3.62818503	3.570837975	0.008823046	7.678998947	184.296	8.087862015	7.955138206	0.03228943	28.0435581	673.0454102	24	20847.50977
	13	504.5081	867.2906494	3.405639	14.87459	3.70751834	3.630655766	0.008970848	7.782040596	186.769	7.860355377	7.697810173	0.03124493	27.1002369	650.4057007	24	20814.97559
	14	501.6895	862.4451294	3.398261	14.88764	3.68176365	3.610668421	0.008921467	7.683024406	184.3926	8.2780056	8.124157906	0.032975461	28.4376545	682.5037231	24	20698.68311

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	501.5027	862.1238403	3.405257	14.87526	4.32771683	4.23829937	0.010472258	9.037177086	216.8923	8.245256424	8.073911667	0.032771524	28.2432995	677.8391724	24	20690.97217
	16	510.5363	877.6523438	3.35966	14.95592	4.29226398	4.260106087	0.010526143	9.240446091	221.7707	8.183570862	8.123221397	0.032971654	28.9382782	694.5186768	24	21063.65625
	17	510.8958	878.270874	3.382109	14.91621	4.5800252	4.515614986	0.011157467	9.799655914	235.1917	7.938415527	7.827401161	0.031770937	27.9041176	669.6987915	24	21078.50098
	18	511.283	878.9367676	3.364558	14.94726	4.64044094	4.597435951	0.01135963	9.99130249	239.7913	7.997558594	7.927343845	0.032176614	28.281538	678.756897	24	21094.48242
	19	507.3046	872.0983276	3.3699	14.93781	4.29719257	4.251162052	0.010504035	9.163572311	219.9257	7.934918404	7.852575302	0.031873111	27.796175	667.1082153	24	20930.35986
	20	503.9863	866.3933716	3.374032	14.9305	3.800843	3.75641036	0.00928158	8.046685219	193.1205	7.934283733	7.841958046	0.031830024	27.5778008	661.8671875	24	20793.44092
	21	505.2281	868.5279541	3.372697	14.93286	3.82644033	3.782447577	0.009345906	8.1108284	194.6599	8.11997509	8.028878212	0.03258872	28.3013496	679.2324219	24	20844.6709
	22	504.871	867.9140625	3.375496	14.92791	4.59115458	4.533903599	0.011202654	9.714138031	233.1393	8.285797119	8.185693741	0.033225223	28.8349495	692.0388184	24	20829.9375
	23	510.5655	877.7042236	3.374415	14.92982	4.68416119	4.628254414	0.011435792	10.0402298	240.9655	7.933328152	7.840033531	0.031822212	27.9324875	670.3796997	24	21064.90137
	24	506.2995	870.369812	3.378357	14.92285	4.50578117	4.447570801	0.010989333	9.573911667	229.7739	7.856221676	7.755244732	0.031478062	27.3961468	657.5075073	24	20888.87549
	25	506.4778	870.6768188	3.375496	14.92791	4.43455458	4.380770206	0.010824277	9.429215431	226.3012	7.978320599	7.882074356	0.031992853	27.8486004	668.366394	24	20896.24365
	26	511.2587	878.8942261	3.370789	14.93624	4.70546484	4.654783726	0.011501346	10.11311626	242.7148	7.983250618	7.897939682	0.032057259	28.173954	676.1749268	24	21093.46143
	27	508.1785	873.6002197	3.372761	14.93275	4.5927434	4.541375637	0.011221116	9.806751251	235.362	7.991676331	7.901733398	0.03207266	28.019762	672.4743042	24	20966.40527
	28	507.4396	872.3297729	3.354966	14.96423	4.4856863	4.457103252	0.01101288	9.611474037	221.0639	7.833652973	7.786823273	0.031606231	27.5698223	634.105896	24	20935.91455
	29	507.0708	871.6967773	3.36055	14.95435	4.52485895	4.488216877	0.011089772	9.659656525	231.8318	8.031581879	7.970033169	0.032349881	28.196209	676.7089844	24	20920.72266
	30	501.7638	862.5726318	3.381664	14.917	4.53026485	4.463311195	0.011028236	9.49516201	227.8839	7.971325874	7.860220909	0.031904161	27.5132504	660.3179932	24	20701.74316
May 03	01	505.05	868.2210083	3.378802	14.92206	4.09830379	4.044143677	0.009992521	8.678314209	208.2796	7.867351055	7.765003204	0.031517658	27.3644543	656.7468872	24	20837.3042
	02	503.6506	865.8171387	3.379374	14.92105	4.04440689	3.990060329	0.009858887	8.538082123	204.914	7.71075058	7.609091282	0.03088483	26.7429752	641.8314209	24	20779.61133
	03	501.7367	862.5253906	3.394128	14.89495	3.87461257	3.806395054	0.009405077	8.113078117	194.7139	7.684993744	7.551162243	0.030649705	26.4358749	634.4609985	24	20700.60938
	04	505.7879	869.491394	3.395464	14.89259	4.52946949	4.447294235	0.01098866	9.557648659	229.3836	7.663373947	7.527190685	0.030552408	26.5645046	637.5480957	24	20867.79346
	05	502.6732	864.1359253	3.394128	14.89495	3.35218906	3.293211699	0.008137075	7.033668995	168.8081	7.857387543	7.720122337	0.031335518	27.0780048	649.8721313	24	20739.26221
	06	498.4999	856.961853	3.404429	14.87673	3.15027952	3.085442543	0.007623705	6.532896519	156.7895	8.000738144	7.836636066	0.031808443	27.2539463	654.0947266	24	20567.08447
	07	499.9617	859.4744873	3.406529	14.87301	3.1865263	3.118809462	0.007706152	6.622594833	158.9423	7.973869801	7.805845737	0.031683445	27.2294254	653.5062256	24	20627.3877
	08	484.1238	832.2478027	3.446847	14.80169	3.7558496	3.626587629	0.008960801	7.374989033	176.9997	8.281505585	8.012206078	0.032521047	27.0793877	649.9052734	24	19973.94727
	09	476.6733	819.4396973	3.432602	14.82689	3.83931828	3.716780424	0.009183652	7.455614567	178.9348	8.262108803	8.026889801	0.032580651	26.6995335	640.7888184	24	19666.55273
	10	503.5741	865.6848145	3.391203	14.90012	3.58383036	3.523252487	0.00870547	7.541205883	180.9889	7.905506134	7.774859905	0.031557687	27.3202801	655.6867065	24	20776.43555
	11	499.0552	857.9159546	3.408945	14.86874	3.3523488	3.279465914	0.008103107	6.95849514	167.0039	7.805188179	7.635475636	0.030991925	26.5895672	638.1495972	24	20589.98291
	12	491.3984	844.7536011	3.413335	14.86098	2.97587299	2.906959534	0.007182695	6.069599152	145.6704	7.804233551	7.624568462	0.030947646	26.1443253	627.4638062	24	20274.08643
	13	489.3849	841.2919312	3.416831	14.85479	2.89065719	2.821649075	0.006971903	5.869137287	140.8593	7.736824036	7.551152229	0.030649662	25.7856712	618.8560791	24	20191.00635
	14	493.7751	848.8387451	3.414988	14.85805	2.90258169	2.834085941	0.007002635	5.946250439	142.71	7.825378418	7.642245293	0.031019408	26.3322906	631.9749756	24	20372.12988
	15	493.1726	847.8045044	3.420455	14.84838	3.16363502	3.084111214	0.007620416	6.465350628	155.1684	7.532369137	7.34376812	0.029807912	25.271759	606.5222168	24	20347.30811
	16	492.6735	846.9450073	3.413651	14.86041	3.22834158	3.153522968	0.00779192	6.602019787	158.4485	7.581017494	7.405934334	0.03006023	25.4604416	611.0505981	24	20326.68018
	17	489.4423	841.3910522	3.404494	14.87661	2.98318624	2.921747923	0.007219236	6.075418472	145.81	7.588809013	7.433475971	0.03017202	25.3871212	609.2908936	24	20193.38525
	18	496.4175	853.381958	3.39718	14.88955	3.26665592	3.206537008	0.007922911	6.763164043	162.3159	7.728238583	7.58618927	0.030791882	26.2781906	630.6765747	24	20481.16699
	19	493.7497	848.7962646	3.40742	14.87144	3.22897673	3.160185337	0.007808387	6.634472847	159.2274	7.611226082	7.449213505	0.030235892	25.6710415	616.1049805	24	20371.11035
	20	488.2255	839.2988281	3.409899	14.86705	3.01450658	2.948116302	0.007284387	6.118132114	146.8352	7.438092232	7.274271011	0.029525833	24.7816257	594.7589722	24	20143.17188
	21	483.7775	831.6526489	3.415687	14.85681	2.90401173	2.834711313	0.007004182	5.830266476	139.9264	7.437456131	7.261297703	0.029473158	24.5130615	588.3134766	24	19959.66357
	22	480.1322	825.3856812	3.417341	14.85389	2.83421874	2.765589476	0.006833388	5.644136429	135.4593	7.3331604	7.156141281	0.029046332	23.9765873	575.4381104	24	19809.25635
	23	478.1489	821.975769	3.421917	14.84579	2.70321536	2.63413167	0.006508575	5.352364063	128.4567	7.364321232	7.177062988	0.029131258	23.9440117	574.656311	24	19727.41846
	24	180.7196	621.1928101	2.581527	11.98478	2.13802433	2.703896761	0.006680967	4.130403996	49.56485	7.208360195	8.897928238	0.036116134	23.2315331	278.7784119	11.08333	6884.886781
	25	493.6973	848.7064819	3.431585	14.82869	2.48222661	2.412412405	0.005960739	5.061410904	121.4739	8.200899124	7.969617844	0.032348178	27.4535503	658.8851929	24	20368.95557
	26	489.8871	842.1560669	3.44532	14.80439	2.66505837	2.579271555	0.006373025	5.369291782	128.863	7.804869652	7.554441452	0.030663004	25.8237247	619.7694092	24	20211.74561
	27	485.8707	835.2513428	3.430206	14.83113	2.58312798	2.510770798	0.006203767	5.187790871	124.507	7.798774719	7.581758022	0.030773891	25.7145214	617.1484985	24	20046.03223
	28	476.1981	818.6225586	3.417531	14.85355	2.26918626	2.21317625	0.005468455	4.480143547	107.5235	7.590397358	7.407000542	0.030064566	24.6126118	590.7026978	24	19646.94141
	29	480.2004	825.5037842	3.412507	14.86244	2.13722825	2.088072538	0.005159341	4.260320663	102.2477	7.97259903	7.791482925	0.031625152	26.1108875	626.6613159	24	19812.09082
	30	489.3714	841.2682495	3.434572	14.8234	2.47523046	2.402992964	0.005937463	4.99849987	119.964	7.989768505	7.757791042	0.0314884	26.494091	635.8582153	24	20190.43799
	31	485.0161	833.7827148	3.437372	14.81845	2.44693041	2.37370038	0.005865081	4.893247604	117.4379	7.827922821	7.59433794	0.03082495	25.7011623	616.8278809	24	20010.78516
Jun 03	01	481.6647	828.020874	3.433492	14.82531	2.29700804	2.230322123	0.00551082	4.567155838	109.6117	7.857176781	7.631300926	0.030974962	25.6483746	615.5609741	24	19872.50098
	02	478.5584	822.6795044	3.425733	14.83904	2.26870823	2.208107471	0.00545593	4.492055416	107.8093	7.760035038	7.553920746	0.030660909	25.2254829	605.4116211	24	19744.30811
	03	476.7528	819.5767212	3.42357	14.84286	2.12307882	2.067543745	0.005108617	4.188725948	100.5294	7.71679163	7.516749859	0.030510025	25.005537	600.1328735	24	19669.84131
	04	480.5831	826.1600342	3.428979	14.8333	2.18985295	2.129548311	0.00526182	4.348099232	104.3544	7.754789352	7.541834831	0.030611847	25.2916412	606.9993896	24	19827.84082
	05	477.7717	821.3288574	3.442967	14.80855	2.23277783	2.162375689	0.005342931	4.389276028	105.3426	7.592306137	7.353792667	0.029848583	24.5177002	588.4248047	24	19711.89258
	06	481.338	827.4589233	3.447037	14.80135	2.38476753	2.307031155	0.005700358	4.718213081	113.2371	7.628396034	7.380351067	0.029956391	24.7914295	594.9943237	24	19859.01416

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	07	479.3842	824.1009521	3.44494	14.80506	2.4003458	2.323265314	0.005740469	4.732358456	113.5766	7.54095459	7.300001144	0.029630262	24.4203701	586.0889282	24	19778.42285
	08	477.2361	820.4078369	3.441505	14.81114	2.41561031	2.340336323	0.005782647	4.746475697	113.9154	7.475769997	7.243937969	0.029402716	24.1229115	578.9498901	24	19689.78809
	09	481.299	827.3928833	3.426879	14.83701	2.5079813	2.439920425	0.00602871	4.989738464	119.7537	7.654310703	7.449690342	0.030237846	25.0269585	600.6469727	24	19857.4292
	10	492.8438	847.2377319	3.394451	14.89438	2.88288188	2.83181262	0.00699702	5.927210808	130.3986	7.713468075	7.577706337	0.030757431	26.0485039	573.0670776	24	20333.70557
	11	494.7334	850.4870605	3.402079	14.88089	3.0153017	2.956309557	0.007304633	6.21696043	149.207	7.725058556	7.57248354	0.030736262	26.143425	627.4421997	24	20411.68945
	12	492.2804	846.2697144	3.415116	14.85783	2.27808928	2.225432396	0.005498738	4.66970253	112.0729	7.920132637	7.733804226	0.031391047	26.5629616	637.5111084	24	20310.47314
	13	492.4893	846.6286011	3.416133	14.85602	3.03771782	2.96495676	0.007325999	6.205226898	148.9254	7.640955448	7.459177494	0.030276345	25.6344452	615.2266846	24	20319.08643
	14	489.7749	841.9624023	3.414479	14.85895	3.02340961	2.952562809	0.007295376	6.14489603	147.4775	7.555103302	7.378785133	0.029950038	25.2162838	605.1907959	24	20207.09766
	15	490.6402	843.4501343	3.404813	14.87605	3.06379032	3.000111341	0.007412862	6.254463196	150.1071	7.684199333	7.526314735	0.030548854	25.7665005	618.3959961	24	20242.80322
	16	486.0578	835.5725708	3.395698	14.89217	2.97518373	2.921272039	0.007218061	6.035484791	144.8516	7.561038971	7.425465584	0.030139517	25.1888752	604.53302	24	20053.7417
	17	480.5605	826.1224365	3.405321	14.87515	2.88397956	2.823860884	0.006977372	5.767943382	138.4306	7.332685947	7.181013107	0.029147279	24.0799046	577.9177246	24	19826.93848
	18	482.4504	829.3716431	3.403858	14.87774	2.72483635	2.668829679	0.006594308	5.469435215	131.2664	7.515993118	7.364131927	0.029890563	24.7924633	595.019104	24	19904.91943
	19	489.3298	841.1973877	3.40106	14.88269	2.66744328	2.615740776	0.006463137	5.438868523	130.5329	7.877841473	7.724158764	0.031351883	26.3729801	632.9514771	24	20188.7373
	20	493.6755	848.6687622	3.405767	14.87436	2.90321636	2.842517853	0.00702347	5.963554859	143.1253	7.877524376	7.713648796	0.031309243	26.5741329	637.7791748	24	20368.05029
	21	493.5386	848.4325562	3.399089	14.88618	2.97778034	2.921487808	0.007218592	6.126833916	147.044	7.815520287	7.667316437	0.031121166	26.4049339	633.7183838	24	20362.38135
	22	492.4944	846.6379395	3.397627	14.88876	2.97269201	2.917343378	0.007208353	6.104666233	146.512	7.829828739	7.685318947	0.031194245	26.4114799	633.8754883	24	20319.31055
	23	494.4341	849.97229	3.383826	14.91317	2.72753787	2.687701702	0.006640939	5.648446083	135.5627	8.088496208	7.971265316	0.032354891	27.5002079	660.0050049	24	20399.33496
	24	494.3876	849.8919678	3.403985	14.87751	2.6548841	2.600681305	0.006425924	5.463217735	131.1172	7.915839195	7.757426262	0.031486914	26.7745667	642.5895996	24	20397.40723
	25	486.3767	836.1204834	3.406148	14.87369	2.72928739	2.671269178	0.006600337	5.521616936	132.5188	7.464482784	7.307863235	0.029662168	24.803009	595.2722168	24	20066.8916
	26	482.6099	829.6455688	3.390886	14.90069	2.57809258	2.534017086	0.006261208	5.20053196	124.8128	7.368933678	7.247198582	0.029415937	24.405508	585.7321777	24	19911.49365
	27	480.4753	825.9760742	3.382555	14.91543	2.09605217	2.065591574	0.005103792	4.214570522	101.1497	7.357326984	7.253674507	0.029442225	24.3183994	583.6416016	24	19823.42578
	28	478.9915	823.4257813	3.396037	14.89157	2.29351211	2.251781225	0.005563839	4.584205627	110.0209	7.479269028	7.344248772	0.029809855	24.549387	589.1853027	24	19762.21875
	29	482.5602	829.5604248	3.400426	14.88381	2.4253087	2.377860546	0.005875369	4.875268936	117.0064	7.597076416	7.450853348	0.030242559	25.0873508	602.0963745	24	19909.4502
	30	486.6321	836.5595703	3.397499	14.88899	2.55424595	2.50587368	0.006191668	5.183237553	124.3977	7.673070908	7.532139778	0.030572493	25.5738754	613.7730103	24	20077.42969
Jul 03	01	489.7173	841.8634033	3.391903	14.89889	3.02881384	2.976394653	0.007354259	6.193299294	148.6392	7.612019539	7.485097885	0.030381549	25.5793247	613.9038086	24	20204.72168
	02	486.2225	835.855896	3.40246	14.88021	3.02388573	2.963588238	0.00732262	6.130072594	147.1217	7.520286083	7.37068367	0.029917145	25.0056343	600.1351929	24	20060.5415
	03	485.8849	835.2750244	3.406466	14.87313	3.02293253	2.958895445	0.007311023	6.110180855	146.6443	7.472272396	7.314926624	0.029690841	24.8015118	595.2363281	24	20046.60059
	04	484.5112	832.9136963	3.411172	14.8648	2.59685373	2.538330078	0.006271862	5.226762295	125.4423	7.531097412	7.362412453	0.029883578	24.8905373	597.3729248	24	19989.92871
	05	483.7858	831.6668701	3.408629	14.8693	2.42547035	2.372292042	0.005861604	4.876882553	117.0452	7.601209641	7.436869621	0.030185796	25.1043873	602.5053101	24	19960.00488
	06	484.6324	833.12146	3.403795	14.87785	2.37840867	2.330002069	0.005757114	4.798354626	115.1605	7.666870117	7.511405468	0.030488338	25.4006157	609.6148071	24	19994.91504
	07	484.6971	833.2347412	3.403033	14.8792	2.9113245	2.852897167	0.007049113	5.875215054	141.0052	7.327119827	7.180415154	0.029144866	24.2838745	582.8129883	24	19997.63379
	08	490.2003	842.6945801	3.387516	14.90665	3.2617259	3.2105546	0.007932839	6.690120697	160.5629	7.528236389	7.410964012	0.03008065	25.3490505	608.3771973	24	20224.66992
	09	484.736	833.3009644	3.392539	14.89776	3.216892	3.162229538	0.007813434	6.515386581	156.3693	7.261301041	7.138441563	0.028974496	24.1529217	579.670105	24	19999.22314
	10	481.5518	827.8272705	3.395209	14.89304	3.24996114	3.1909554	0.00788441	6.529716015	156.7132	7.101838589	6.975861073	0.028314587	23.4386864	562.5285034	24	19867.85449
	11	480.1125	825.352417	3.398008	14.88809	2.88493371	2.831214666	0.006995542	5.781862736	138.7647	7.18689537	7.053216934	0.028628575	23.6309757	567.1433716	24	19808.45801
	12	357.2257	701.7844238	2.892391	13.04574	4.65379381	10.80272675	0.026692105	9.056098938	190.1781	6.573420048	6.85038662	0.027805306	21.5697746	452.965271	19.76944	13873.88752
	13	484.7965	833.4047852	3.413398	14.86086	2.69780874	2.634981632	0.006510678	5.428676605	130.2882	7.719971657	7.542324066	0.030613825	25.513134	612.3151855	24	20001.71484
	14	484.0274	832.0825195	3.415879	14.85647	2.43723273	2.382811308	0.005887598	4.902620792	117.6629	7.962740898	7.770738602	0.031540938	26.2469254	629.9262085	24	19969.98047
	15	481.5655	827.8508301	3.442779	14.80889	2.01624227	1.963135719	0.004850638	4.007852077	96.18845	8.231746674	7.962222576	0.032318171	26.7732658	642.5584106	24	19868.41992
	16	480.0189	825.1918945	3.434638	14.82329	2.49335504	2.420464039	0.005980633	4.937122822	118.491	7.68117857	7.45798111	0.0302715	24.9805717	599.5336914	24	19804.60547
	17	479.3652	824.0680542	3.454479	14.78819	2.33118963	2.257518768	0.005578019	4.589595795	110.1503	7.88992548	7.609091759	0.030884828	25.467247	611.2139282	24	19777.6333
	18	479.8383	824.880249	3.445047	14.80488	2.32461834	2.256356001	0.005575146	4.585357666	110.0486	7.819495201	7.5615592	0.030691912	25.3467884	608.322876	24	19797.12598
	19	479.7779	824.7764282	3.41219	14.863	2.66442156	2.603724241	0.006433445	5.307219028	127.3733	7.628554344	7.456150055	0.030264037	24.9622917	599.0949707	24	19794.63428
	20	479.3594	824.0584717	3.416959	14.85456	2.54232264	2.480496168	0.006128964	5.053285122	121.2788	7.57402277	7.391851425	0.030003084	24.7279091	593.4697876	24	19777.40332
	21	480.5575	826.1177368	3.42787	14.83526	2.14207029	2.092190981	0.005169519	4.260932446	93.74051	7.917776585	7.696126461	0.031238113	25.8241673	568.1317139	24	19826.82568
	22	476.5279	819.1894531	3.43057	14.83049	2.46696353	2.401594877	0.00593401	4.853482723	116.4836	7.403593063	7.192757607	0.029194966	23.931879	574.3651123	24	19660.54688
	23	478.555	822.6747437	3.452127	14.79235	2.13865995	2.074245214	0.005125174	4.199338436	100.7841	7.932851791	7.653321743	0.031064371	25.5899658	614.1591797	24	19744.19385
	24	477.3271	820.5636597	3.434066	14.8243	2.26441598	2.20265317	0.005442451	4.466878891	107.2051	7.594692707	7.372040749	0.029922659	24.5586338	589.4072266	24	19693.52783
	25	481.9041	828.4317017	3.459822	14.77874	1.93102646	1.870779037	0.004622438	3.820698261	91.69676	8.113140106	7.809657097	0.031698924	26.2778873	630.6693115	24	19882.36084
	26	479.2879	823.9356689	3.440615	14.81271	2.64852262	2.566655874	0.006341853	5.225568771	125.4137	7.260663986	7.038061142	0.028567066	23.5476284	565.1431274	24	19774.45605
	27	475.8658	818.0511475	3.437626	14.818	2.71958923	2.636775494	0.00651511	5.331038952	127.9449	7.144129276	6.931168079	0.028133197	23.0139217	552.3341064	24	19633.22754
	28	475.9254	818.1550903	3.424463	14.84129	2.58227873	2.514212132	0.006212271	5.084497452	122.0279	7.176826954	6.988910675	0.028367572	23.2085209	557.0045166	24	19635.72217
	29	476.8959	819.8222046	3.443414	14.80776	2.53246474	2.459600687	0.006077333	4.972942352	119.3506	7.473704815	7.231206894	0.029351033	24.0794868	577.9077148	24	19675.73291

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	478.676	822.8824463	3.458295	14.78144	3.06633401	2.964870691	0.007325786	6.015638351	144.3753	7.260027885	6.994225502	0.028389141	23.3789959	561.0958862	24	19749.17871
	31	482.0522	828.6868286	3.450791	14.79471	3.10671687	3.011888266	0.007441961	6.156210899	147.7491	7.342224121	7.088828087	0.028773116	23.86092	572.6621094	24	19888.48389
Aug 03	01	480.4504	825.9334717	3.45944	14.77941	3.16649556	3.062117338	0.007566072	6.239357948	149.7446	7.226641655	6.959026337	0.028246263	23.3429298	560.2302856	24	19822.40332
	02	480.5798	826.1554565	3.42847	14.8342	3.38764238	3.295146704	0.008141853	6.728806019	161.4913	7.041742325	6.849863529	0.027803175	22.9725342	551.3408203	23.99167	19820.84643
	03	480.3487	825.758728	3.439725	14.81429	3.30401587	3.202876568	0.007913869	6.535601139	156.8544	7.078467846	6.862609863	0.027854921	23.0022259	552.0534058	23.99722	19815.91626
	04	481.5362	827.7987671	3.43006	14.83139	2.79256344	2.714552164	0.006707286	5.554298401	133.3032	7.395801544	7.191365242	0.029189317	24.1695671	580.0695801	24	19867.17041
	05	485.3353	834.3304443	3.428214	14.83465	2.81243634	2.735492468	0.006759023	5.642819405	135.4277	7.450016022	7.247340679	0.029416509	24.5468922	589.1254272	24	20023.93066
	06	483.6124	831.3693848	3.434384	14.82374	2.90289879	2.818495035	0.006964113	5.793305874	139.0393	7.355101585	7.141898155	0.028988533	24.1009502	578.4227905	24	19952.86523
	07	483.2336	830.7176514	3.432223	14.82756	2.84041786	2.759457827	0.006818241	5.667825222	136.0278	7.413766861	7.203352451	0.029237971	24.2900124	582.9602661	24	19937.22363
	08	482.9673	830.2594604	3.426942	14.8369	2.96029282	2.880150795	0.007116455	5.911875725	141.885	7.420921803	7.221385956	0.029311161	24.3384876	584.1237183	24	19926.22705
	09	479.8595	824.9180298	3.431331	14.82914	2.86235762	2.781769991	0.00687337	5.67298317	136.1516	7.352240562	7.145394802	0.02900273	23.927021	574.2484741	24	19798.03271
	10	479.1757	823.7420654	3.430313	14.83094	2.83533001	2.755856276	0.006809337	5.611645222	134.6795	7.286896706	7.083994389	0.028753517	23.687542	568.5009766	24	19769.80957
	11	483.5853	831.3221436	3.407674	14.87099	3.21848369	3.149111986	0.007781019	6.470913887	155.3019	7.335228443	7.178809166	0.029138345	24.2235451	581.3651123	24	19951.73145
	12	481.1976	827.2179565	3.4113	14.86458	2.70528173	2.646192551	0.006538375	5.413144112	129.9155	7.570207596	7.400803566	0.030039409	24.8536301	596.4871216	24	19853.23096
	13	480.5719	826.1411743	3.428278	14.83454	2.66792011	2.594652414	0.006411027	5.298623085	127.1669	7.516312599	7.311418533	0.029676609	24.5176411	588.4234009	24	19827.38818
	14	478.8185	823.1281128	3.426882	14.83701	2.75615621	2.681482553	0.006625573	5.456526756	130.9566	7.442383766	7.24238348	0.029396396	24.1977882	580.7468872	24	19755.07471
	15	481.3162	827.4210205	3.426562	14.83757	2.78556871	2.710156679	0.006696424	5.542323112	133.0157	7.530938625	7.329620838	0.029750483	24.6163082	590.7913818	24	19858.10449
	16	478.9121	823.2887573	3.414732	14.8585	2.58270407	2.522187948	0.006231981	5.133873463	123.213	7.56241703	7.385597706	0.029977687	24.6824341	592.378418	24	19758.93018
	17	477.871	821.4987793	3.417468	14.85366	2.43754959	2.378264189	0.005876362	4.829858303	115.9166	7.589921474	7.406392574	0.0300621	24.6952839	592.6868286	24	19715.9707
	18	476.3079	818.8115234	3.412074	14.8632	2.37401557	2.320392609	0.00573337	4.694652557	103.2824	7.645479679	7.47171545	0.03032724	24.8217812	546.0792236	24	19651.47656
	19	478.791	823.0808716	3.441507	14.81114	1.91465056	1.865382195	0.004609101	3.786668301	90.88004	8.262901306	7.996008873	0.03245531	26.7265415	641.4370117	24	19753.94092
	20	479.0743	823.5673828	3.452444	14.79179	1.71751034	1.673223495	0.004134307	3.407609463	81.78263	8.329994202	8.034549713	0.032611746	26.8576908	644.5845947	24	19765.61719
	21	477.3569	820.6156006	3.450983	14.79438	1.92911863	1.874339938	0.004631235	3.789857149	90.95657	7.973233223	7.694014072	0.031229537	25.6509209	615.6220703	24	19694.77441
	22	476.2226	818.6651001	3.406466	14.87313	2.62722039	2.571230412	0.006353152	5.203194618	124.8767	7.185147285	7.03463459	0.028553151	23.3784122	561.0819092	24	19647.9624
	23	249.3114	685.697998	2.860637	12.93774	4.46699619	6.121510029	0.015125378	8.544677734	128.1702	6.913323402	7.483918667	0.030376757	22.2912312	334.3684692	14.34722	9837.861628
	24	477.5767	820.9934082	3.420392	14.84849	2.74963713	2.680594921	0.006623381	5.440089703	130.5621	7.47306776	7.286082745	0.029573757	24.2805214	582.7324829	24	19703.8418
	25	478.3102	822.2543945	3.452783	14.79119	2.36563659	2.296063662	0.005673258	4.649908066	111.5978	8.253845215	7.954538822	0.032286994	26.588583	638.1259766	24	19734.10547
	26	480.2333	825.5604858	3.462746	14.77356	2.19493985	2.128178835	0.005258436	4.320492268	103.6918	8.761955261	8.417784691	0.034167286	28.2567673	678.1624146	24	19813.45166
	27	482.2476	829.0220947	3.443351	14.80787	2.93247008	2.847956419	0.00703691	5.826097965	139.8264	8.13476181	7.869102955	0.031940207	26.4968948	635.9254761	24	19896.53027
	28	485.1812	834.065979	3.422555	14.84466	3.31689429	3.232020855	0.007985878	6.664097786	159.9384	7.816473961	7.615815163	0.030912125	25.7811756	618.7481689	24	20017.5835
	29	487.7888	838.5479736	3.417722	14.85321	3.38112378	3.297751665	0.008148292	6.836380005	164.0731	7.800577164	7.611257553	0.030893629	25.9058247	621.7398071	24	20125.15137
	30	485.121	833.9620361	3.409201	14.86829	3.2486887	3.177386761	0.007850884	6.550928593	157.2223	7.691036224	7.523375988	0.03053692	25.4715786	611.3179321	24	20015.08887
	31	481.1045	827.0575562	3.417087	14.85434	3.17237759	3.096204996	0.007650296	6.330472469	151.9313	7.602799416	7.419519901	0.030115379	24.906971	597.7672729	24	19849.38135
Sep 03	01	478.9397	823.3359985	3.423254	14.84342	3.06267834	2.983330727	0.007371398	6.071919441	145.7261	7.637457371	7.440001011	0.030198513	24.8630962	596.7142944	24	19760.06396
	02	478.1565	821.9900513	3.409229	14.86824	2.43940115	2.392092705	0.005910532	4.845654011	106.6044	8.306799889	8.115733147	0.032941278	27.0930729	596.0476074	24	19727.76123
	03	475.25	816.9932251	3.419567	14.84995	2.5701437	2.522339821	0.006232356	5.075874805	121.821	7.967505932	7.752171993	0.031465586	25.7430592	617.833374	24	19607.8374
	04	477.5905	821.0169678	3.433175	14.82588	2.53771114	2.475430489	0.00611645	5.016136169	120.3873	7.996762276	7.755943775	0.031480905	25.8643074	620.7434082	24	19704.40723
	05	480.6128	826.2120972	3.426498	14.83769	2.73485184	2.672198534	0.006602632	5.447368145	130.7368	7.893265247	7.670406342	0.0311337	25.7510509	618.0252075	24	19829.09033
	06	478.9944	823.4303589	3.402269	14.88055	3.22563744	3.161142826	0.007810749	6.433436871	154.4025	7.283399105	7.13894558	0.028976524	23.8625965	572.7022705	24	19762.32861
	07	481.0935	827.0385742	3.411809	14.86368	2.89542699	2.829198837	0.006990561	5.784448624	138.8268	7.49612093	7.326515675	0.029737882	24.5980339	590.3527832	24	19848.92578
	08	485.5797	834.7507935	3.405767	14.87436	2.82006884	2.759025812	0.006817171	5.694696426	136.6727	7.731259346	7.569798946	0.030725351	25.6506176	615.6148071	24	20034.01904
	09	489.0767	840.7629395	3.405257	14.87526	2.76664925	2.708765507	0.006692987	5.628354073	135.0805	7.95272541	7.788256168	0.031612057	26.5788383	637.8920898	24	20178.31055
	10	484.198	832.3752441	3.407166	14.87189	2.92626929	2.863154888	0.007074464	5.890356064	141.3685	7.433638573	7.283688545	0.029564045	24.6127834	590.7067871	23.93889	19926.1382
	11	479.7227	824.6818848	3.40812	14.8702	2.95441031	2.889912605	0.007140576	5.891189575	141.3885	7.304067612	7.147184372	0.029009987	23.9239292	574.1743164	24	19792.36523
	12	477.7555	821.3004761	3.401951	14.88111	2.67427874	2.620930433	0.006475958	5.32320261	127.7569	7.567504883	7.418354034	0.030110653	24.7284336	593.4824219	24	19711.21143
	13	475.594	817.5836182	3.406276	14.87346	2.46489596	2.412965775	0.005962104	4.874835491	116.996	7.529983521	7.372223377	0.029923404	24.4678497	587.2283936	24	19622.00684
	14	476.6785	819.4490967	3.41238	14.86266	2.66712379	2.605601311	0.006438082	5.278548241	126.6852	7.49373579	7.323401451	0.029725233	24.358263	584.5983276	24	19666.77832
	15	478.5001	822.5802612	3.400594	14.88351	2.60708165	2.555902004	0.006315284	5.196511745	124.7163	7.714672565	7.565792561	0.030709095	25.2606087	606.2545776	24	19741.92627
	16	482.8134	829.9950562	3.396354	14.89101	2.6291275	2.579787493	0.006374298	5.291133404	126.9872	7.914567947	7.771791935	0.031545233	26.1815205	628.3565063	24	19919.88135
	17	483.5383	831.2418213	3.43413	14.82419	2.35122252	2.276306629	0.00562444	4.628527641	111.0847	8.115205765	7.882706642	0.031995438	26.6120377	638.6889038	24	19949.80371
	18	485.4589	834.5430298	3.420775	14.84781	2.78397655	2.712416649	0.00670201	5.596082211	134.306	7.772117615	7.575700283	0.030749312	25.6651287	615.9630737	24	20029.03271
	19	482.7418	829.8721924	3.39413	14.89495	2.69574213	2.647152901	0.006540751	5.430875301	130.341	7.682609558	7.547749043	0.030635851	25.4262791	610.2307129	24	19916.93262
	20	482.646	829.7068481	3.390759	14.90091	2.68540668	2.640511751	0.00652434	5.415943146	129.9826	7.668937683	7.542426109	0.030614249	25.4031467	609.6754761	24	19912.96436

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	477.9063	821.5601807	3.3968	14.89023	2.51465917	2.467993736	0.006098076	5.012601852	120.3024	7.659715176	7.519531727	0.030521313	25.0795174	601.9083862	24	19717.44434
	22	476.3849	818.9437866	3.380647	14.9188	2.42642164	2.392667055	0.005911951	4.844641209	116.2714	7.650494099	7.546381474	0.030630304	25.089529	602.1486816	24	19654.65088
	23	477.4147	820.7147827	3.382365	14.91576	2.55965161	2.523115873	0.006234272	5.117660046	122.8238	7.675296783	7.567502499	0.030716024	25.2116375	605.0792847	24	19697.15479
	24	481.7585	828.1815186	3.391777	14.89911	3.21228337	3.157697439	0.007802236	6.464072704	155.1378	7.444132805	7.318799973	0.029706554	24.605896	590.5415039	24	19876.35645
	25	483.7442	831.5960083	3.396355	14.89101	3.5132401	3.448515415	0.008520807	7.087905884	170.1097	7.33904314	7.205116272	0.029245125	24.3220882	583.7301025	24	19958.3042
	26	481.9892	828.578186	3.384081	14.91272	3.60322499	3.549590111	0.008770549	7.270903587	174.5017	7.257007599	7.150902748	0.02902508	24.0529575	577.2709961	24	19885.87646
	27	479.1044	823.6192627	3.388406	14.90508	3.4738121	3.418348789	0.008446272	6.961186409	167.0685	7.178787708	7.064755917	0.028675416	23.6229076	566.9498291	24	19766.8623
	28	475.2007	816.9082642	3.399534	14.88539	3.00846386	2.951318264	0.0072923	5.96714735	143.2115	7.205338478	7.067817688	0.028687842	23.4393082	562.543396	24	19605.79834
	29	477.7057	821.2155151	3.413419	14.86082	2.58996415	2.529810905	0.006250814	5.134363174	123.2247	7.568246841	7.393604755	0.030010192	24.6467342	591.5216064	24	19709.17236
	30	479.5142	824.322998	3.415624	14.85693	2.94280386	2.872334242	0.007097142	5.85342741	140.4823	7.478631973	7.300718784	0.02963317	24.4319382	586.3665161	24	19783.75195
Oct 03	01	481.8709	828.3751831	3.414924	14.85816	2.97094417	2.900682926	0.007167187	5.938558102	142.5254	7.550652027	7.373393059	0.02992815	24.7926579	595.0238037	24	19881.00439
	02	483.3603	830.9349365	3.417658	14.85332	2.74582171	2.678432941	0.006618036	5.501418114	132.034	7.850020409	7.659711838	0.031090314	25.8344173	620.026001	24	19942.43848
	03	482.904	830.1508789	3.422301	14.84511	2.65472341	2.586186647	0.006390111	5.307192802	127.3726	7.852405071	7.651156425	0.031055572	25.7866173	618.8787842	24	19923.62109
	04	358.5443	739.6392212	3.062804	13.6524	4.33016491	7.790913105	0.019250199	7.520027637	150.4005	7.23271513	7.403233528	0.03004927	23.5342674	470.6853333	19.71111	14579.11084
	05	483.5547	831.2701416	3.431585	14.82869	2.6790483	2.602596283	0.006430659	5.347354412	128.3365	7.973869324	7.748308182	0.031449921	26.1452618	627.4863281	24	19950.4834
	06	482.396	829.2772217	3.405257	14.87526	2.60957289	2.554259062	0.006311222	5.236105919	125.6665	7.911547184	7.747169018	0.031445287	26.0786457	625.8875122	24	19902.65332
	07	480.827	826.5805664	3.400171	14.88426	2.4712553	2.423194647	0.005987377	4.951357365	118.8326	7.91647625	7.764369011	0.031515103	26.0512371	625.2296753	24	19837.93359
	08	481.8052	828.2619019	3.415879	14.85647	2.57300544	2.510351181	0.006202732	5.1402812	123.3668	7.947477341	7.757056236	0.031485412	26.0817795	625.9627075	24	19878.28564
	09	484.3683	832.6681519	3.425735	14.83904	2.54836369	2.479768038	0.006127165	5.104227543	122.5015	8.115683556	7.899579048	0.032063909	26.7025757	640.8618164	24	19984.03564
	10	494.9971	850.9404297	3.40462	14.87639	2.75138712	2.694350719	0.006657371	5.667283058	136.0148	8.539218903	8.364415169	0.033950642	28.8928585	693.4285889	24	20422.57031
	11	493.7393	848.7774658	3.403414	14.87852	2.87110162	2.813042402	0.006950645	5.901192665	141.6286	8.381505013	8.214036942	0.03334026	28.3082504	679.3980103	24	20370.65918
	12	491.5987	845.0982666	3.408056	14.87031	2.98684382	2.922066212	0.007220023	6.104279041	146.5027	8.210279465	8.033866882	0.032608971	27.5582504	661.3980103	24	20282.3584
	13	494.3743	849.8684082	3.398453	14.8873	3.03199506	2.974739075	0.007350171	6.248397827	149.9615	8.398516655	8.241101265	0.033450127	28.4291878	682.3005371	24	20396.8418
	14	493.648	848.621521	3.340766	14.98935	3.28940439	3.285029173	0.008116856	6.885422707	158.3647	8.338143349	8.322389603	0.033780079	28.6543617	659.050293	24	20366.9165
	15	491.7501	845.3581543	3.346179	14.97978	3.49336743	3.481992006	0.008603523	7.276661873	174.6399	8.223952293	8.198479652	0.033277139	28.1363373	675.2720947	24	20288.5957
	16	496.379	853.315918	3.375432	14.92803	3.93200469	3.883403778	0.009595355	8.19184494	196.6043	8.169101715	8.070356369	0.032757089	27.9540253	670.8966064	24	20479.58203
	17	492.8574	847.2613525	3.364432	14.94749	3.79623246	3.762452126	0.0092965	7.881949425	189.1668	8.013138771	7.942593098	0.032238498	27.3196335	655.6712036	24	20334.27246
	18	485.5469	834.6941528	3.36475	14.94693	3.1529808	3.123313665	0.007717274	6.452772617	154.8665	7.918541908	7.847606659	0.031852949	26.5943756	638.2650146	24	20032.65967
	19	485.9805	835.4403076	3.392857	14.8972	3.14216948	3.087769985	0.007629453	6.377425194	153.0582	7.807569981	7.673741817	0.031147238	26.0250835	624.6019897	24	20050.56738
	20	481.9369	828.4884033	3.385863	14.90958	3.15822744	3.14439249	0.007769357	6.360659599	152.6558	8.022838593	7.968793869	0.032344844	26.5479202	637.1500854	24	19883.72168
	21	483.6595	831.449646	3.385988	14.90935	3.08191538	3.035237551	0.007499652	6.235726833	149.6574	7.798985958	7.680515766	0.031174745	25.924221	622.1812744	24	19954.7915
	22	485.7251	835.0010986	3.378867	14.92195	3.50719738	3.460942984	0.008551514	7.143218994	171.4373	7.809797287	7.707951069	0.031286091	26.1271706	627.052124	24	20040.02637
	23	490.819	843.7571411	3.383445	14.91385	3.72946	3.675050497	0.009080539	7.664489269	183.9477	7.90836668	7.794754028	0.031638436	26.6951828	640.6843872	24	20250.17139
	24	487.6376	838.288147	3.388405	14.90508	3.53088832	3.474621296	0.00858531	7.199907303	172.7978	7.837937355	7.714167595	0.031311329	26.2518158	630.0435791	24	20118.91553
	25	488.1893	839.2374878	3.391776	14.89911	3.75934911	3.695877075	0.009132002	7.665176392	183.9642	7.676409721	7.547236443	0.030633766	25.7127419	617.105835	24	20141.69971
	26	489.4256	841.3626099	3.373143	14.93207	3.93518424	3.889004707	0.009609195	8.089432716	194.1464	7.822834015	7.733927727	0.031391546	26.4141159	633.9387817	24	20192.70264
	27	489.4806	841.4571533	3.362205	14.95142	3.64694762	3.616593838	0.008936105	7.523501396	180.564	7.888335705	7.824226379	0.031758051	26.7296791	641.5122681	24	20194.97168
	28	488.9592	840.5598755	3.357307	14.96009	3.36745119	3.344587803	0.008264016	6.949522018	166.7885	8.114729881	8.060407639	0.032716721	27.503809	660.0914307	24	20173.43701
	29	489.5273	841.5373535	3.373144	14.93207	3.0895462	3.054437876	0.007547093	6.353635311	152.4872	8.373556137	8.278525352	0.033602025	28.2786751	678.6882324	24	20196.89648
	30	504.6156	867.4747314	3.396291	14.89112	3.73120737	3.663329124	0.00905158	7.854401112	188.5056	8.670381546	8.513789177	0.034556944	29.9799004	719.5175781	24	20819.39355
	31	505.6045	869.1749878	3.393494	14.89608	4.00148153	3.930325031	0.009711297	8.444986343	202.6797	8.545895576	8.399893761	0.034094661	29.6328926	711.1893921	24	20860.19971
Total		348,796	604510.2791							58,769					537,133	17021.74	14,396,901
Average		486.4664	843.1105706	3.359264	14.84574	1.79775445	2.260223774	0.005584154	3.552621092	81.96581	9.276210302	9.173342598	0.037230244	31.543529	749.1401094	23.31745	19721.78245
Ann Avg.		174,398								29,385					268,567	8510.871	7,198,451

7057.304504 mmscf/yr

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Nov01	01	491.5681	848.3743896	3.28214	15.0604	11.5778913	11.69736671	0.028890945	24.51388741	588.3333	6.608986855	6.677338123	0.027092021	22.9850674	551.6416016	24	20360.98535
	02	490.9536	847.3123779	3.274698	15.07364	11.6824903	11.8286171	0.029215109	24.75890732	594.2138	6.626155853	6.71006155	0.027224783	23.0676994	553.6248169	24	20335.49707
	03	490.2338	846.0700684	3.278005	15.06774	12.8550205	13.00132084	0.032111559	27.17586327	652.2207	6.436807156	6.511811256	0.026420426	22.3536167	536.4868164	24	20305.68164
	04	488.0833	842.357605	3.28392	15.05724	11.9693079	12.08633327	0.029851692	25.14847183	603.5633	6.410256386	6.473200798	0.026263779	22.1234703	530.9633179	24	20216.58252
	05	485.5385	837.96698	3.253438	15.11147	9.68124485	9.863651276	0.024361944	20.42571259	469.7914	6.404781342	6.528651714	0.02648874	22.194582	510.4754028	24	20111.20752
	06	488.9694	843.8891602	3.26993	15.08213	10.2478218	10.39081001	0.025663933	21.66288757	519.9093	6.454772949	6.547287941	0.026564363	22.4209881	538.1036987	24	20253.33984
	07	494.3686	853.2056885	3.270947	15.08031	11.0376558	11.18710518	0.027630676	23.57962036	565.9109	6.590703964	6.68185091	0.027110329	23.1317329	555.1616211	24	20476.93652
	08	490.3409	846.2549438	3.2588	15.10193	11.7737551	11.97372913	0.029573562	25.03581619	600.8596	6.475598812	6.590220928	0.026738551	22.627533	543.060791	24	20310.11865
	09	491.4806	848.2227173	3.268911	15.08394	10.2694492	10.41403103	0.025721267	21.8336544	524.0077	6.656839848	6.753353596	0.027400421	23.2419872	557.8076782	24	20357.34521
	10	489.5332	844.861145	3.259309	15.10103	9.69790077	9.864191055	0.02436325	20.58998299	494.1596	6.598017693	6.712725163	0.027235596	23.0201454	552.4835205	24	20276.66748
	11	486.2361	839.1713867	3.274572	15.07387	11.4127083	11.55441284	0.028537888	23.95364571	574.8875	6.203258038	6.281966686	0.025487863	21.3891582	513.3397827	24	20140.11328
	12	488.0685	842.3338623	3.237709	15.13943	9.49527836	9.72224617	0.024012674	20.22942543	465.2768	6.39947319	6.554488182	0.02659357	22.4001217	515.2028198	24	20216.0127
	13	490.9366	847.2839355	3.239787	15.13575	9.99089718	10.22558308	0.025255853	21.40219498	513.6527	6.523451328	6.677080631	0.02709097	22.9552174	550.9251709	24	20334.81445
	14	491.5332	848.3128052	3.242584	15.13078	10.9273272	11.17416382	0.027598763	23.4236908	562.1686	6.543007851	6.691470146	0.027149342	23.0309582	552.742981	24	20359.50732
	15	489.3351	844.5197754	3.244937	15.1266	10.5967865	10.82683277	0.026740851	22.58197975	541.9675	6.619956493	6.765429497	0.027449429	23.1831169	556.3947754	24	20268.47461
	16	485.5215	837.9387207	3.265541	15.08994	10.6592817	10.82518387	0.026736816	22.40723419	537.7736	6.497059822	6.598383904	0.02677167	22.4346199	538.4309082	24	20110.5293
	17	89.85172	531.6705933	2.180141	12.54251	23.6662121	58.76892853	0.145151705	30.45384216	213.1769	5.095498562	7.629728317	0.030956158	15.5787086	109.0509644	6.352778	3377.585226
	18	487.541	841.4235229	3.259755	15.10023	12.8578625	13.24155426	0.03270489	27.12657166	651.0377	6.870515823	7.035845757	0.028546596	23.8324795	571.9794922	24	20194.16455
	19	489.8707	845.4442749	3.25536	15.10806	12.1225824	12.34751701	0.030496748	25.78346062	593.0196	6.296451569	6.414559841	0.026025835	22.0050659	506.1165161	24	20290.6626
	20	491.3876	848.0614624	3.249897	15.11778	12.3769417	12.62362003	0.031178679	26.4607296	635.0575	5.615112305	5.727914333	0.023239918	19.7333527	453.8670959	24	20353.4751
	21	489.4776	844.7662354	3.245192	15.12615	10.8928232	11.12230682	0.027470641	23.23280334	557.5873	7.249057293	7.405369759	0.030045874	25.379921	609.118103	24	20274.38965
	22	488.2856	842.7085571	3.270121	15.0818	10.8464003	10.98819828	0.027139422	22.89305878	549.4334	6.929977894	7.031864166	0.028530441	24.0304966	576.7318726	24	20225.00537
	23	494.901	854.1257324	3.276098	15.07115	10.6368542	10.76112747	0.026578596	22.71746635	545.2192	6.904062271	6.989138603	0.028357092	24.2175617	581.2214966	24	20499.01758
	24	488.7198	843.4575195	3.259627	15.10048	8.5931139	8.741297722	0.021589862	18.21706581	437.2096	7.023617744	7.147360325	0.028999038	24.4643078	587.1433716	24	20242.98047
	25	502.2801	866.8609619	3.285892	15.05373	10.9397268	11.04156971	0.027271263	23.64052963	567.3727	7.091663837	7.156659603	0.029036762	25.1712379	604.1096802	24	20804.66309
	26	504.3983	870.5166016	3.251551	15.11484	11.9678745	12.20166683	0.030136533	26.24300385	629.8321	7.132045746	7.274172306	0.029513562	25.6913166	616.5916138	24	20892.39844
	27	507.3737	875.6514893	3.216643	15.17694	12.7445593	13.13825035	0.032449737	28.41241455	625.0731	7.062902927	7.281208992	0.029542096	25.8581142	568.878479	24	21015.63574
	28	500.5768	863.9213867	3.20035	15.20593	11.7909575	12.21515656	0.030169835	26.16936493	601.8954	7.023908615	7.278384686	0.029530639	25.5330734	587.2606812	24	20734.11328
	29	490.4778	846.4920654	3.226812	15.15884	10.1037846	10.35194302	0.025567908	21.66362953	519.9271	7.009788036	7.2093997	0.029250754	24.7553577	594.1286011	24	20315.80957
	30	496.992	857.7338867	3.256765	15.10556	11.7435503	11.95204163	0.029519971	25.32885742	607.8926	6.845872402	6.970867157	0.028282953	24.2595367	582.2288818	24	20585.61328
Dec01	01	370.9094	768.161377	2.905524	14.16298	11.4703465	19.54410362	0.048271395	24.42560959	488.5122	6.632134438	7.85311985	0.031862516	23.4670448	469.3409119	19.98056	15348.29178
	02	491.3787	848.0471191	3.234063	15.14595	9.38406467	9.621896744	0.023764834	20.15860748	483.8066	7.066543579	7.245998383	0.02939925	24.9310913	598.3461914	24	20353.13086
	03	501.1018	864.8270264	3.205326	15.19707	10.1265583	10.47431469	0.025870183	22.37361717	514.5932	7.209325314	7.458895683	0.030263038	26.1681252	601.8668823	24	20755.84863
	04	505.7499	872.8491821	3.241313	15.13305	9.4314394	9.652574539	0.023840588	20.81646347	499.5951	7.384990692	7.555328846	0.030654287	26.7563839	642.1531982	24	20948.38037
	05	504.0932	869.9902344	3.232538	15.14867	9.60918427	9.857809067	0.024347508	21.19607925	508.7059	7.246195793	7.433651447	0.030160617	26.2401199	629.7628784	24	20879.76563
	06	500.3651	863.5562134	3.220073	15.17084	10.2039404	10.50824738	0.025953995	22.42594528	538.2227	7.110265255	7.322252274	0.02970862	25.6556454	615.7354736	24	20725.34912
	07	498.45	860.2515869	3.221853	15.16768	9.91204834	10.20137787	0.025196075	21.68156624	520.3576	6.945714474	7.149054527	0.029005907	24.9540005	598.8959961	24	20646.03809
	08	492.7059	850.3374023	3.209071	15.19041	8.49772263	8.772845268	0.021667775	18.45774651	442.9859	7.142856121	7.382906437	0.02995472	25.4690247	611.2565918	24	20408.09766
	09	499.61	862.2524414	3.198259	15.20964	7.84063959	8.120463371	0.020056484	17.33261681	415.9828	7.619334221	7.901526928	0.032058921	27.6341915	663.2205811	24	20694.05859
	10	506.6291	874.3665771	3.213564	15.18243	9.42984676	9.730836868	0.024033908	21.02159119	504.5182	7.574128151	7.815872669	0.031711403	27.7271709	665.4520874	24	20984.79785
	11	505.9283	873.1574707	3.237879	15.13917	10.800766	11.06012726	0.027317068	23.8606205	572.6549	7.542385578	7.724744797	0.031341668	27.3668995	656.805603	24	20955.7793
	12	504.5029	870.6968384	3.252568	15.11302	11.8251123	12.05317879	0.029769775	25.93367004	622.4081	7.298660278	7.441343784	0.030191846	26.2874241	630.8981934	24	20896.72412
	13	502.1753	866.6807861	3.230121	15.15296	11.3781939	11.67311478	0.028831063	25.01955032	600.4692	7.317738056	7.513074398	0.030482855	26.4169083	634.0057983	24	20800.33887
	14	501.8956	866.1971436	3.224397	15.16315	9.40822506	9.676002502	0.023898445	20.70915413	497.0197	7.630782127	7.848703861	0.031844601	27.5837002	662.0087891	24	20788.73145
	15	506.1623	873.5605469	3.248118	15.12095	9.24065781	9.430655479	0.023292458	20.36997986	488.8795	7.58308506	7.742241859	0.031412646	27.442625	658.6229858	24	20965.45313
	16	504.5412	870.7631836	3.2602	15.09945	9.66641998	9.830143929	0.02427917	21.16354179	507.925	7.357327461	7.483406067	0.030362487	26.4412785	634.5906982	24	20898.31641
	17	495.05	854.3817139	3.255813	15.10726	8.81760025	8.978141785	0.022174826	18.95865059	455.0076	7.217898846	7.352079868	0.029829638	25.4911747	611.788208	24	20505.16113
	18	500.8876	864.4571533	3.273173	15.07635	11.0726376	11.21741581	0.027705517	23.95516586	574.924	7.072585583	7.165278912	0.029071741	25.1324749	603.1793823	24	20746.97168
	19	500.0247	862.9682617	3.259565	15.10058	11.0042868	11.1919632	0.027642675	23.91108704	573.8661	7.208199501	7.333445549	0.029754058	25.6753712	616.2089233	24	20711.23828
	20	492.091	849.2752686	3.27082	15.08055	7.81965637	7.923742294	0.019570621	16.63801193	399.3123	7.483402252	7.589424133	0.030792616	26.1473293	627.5358887	24	20382.60645
	21	497.9453	859.3791504	3.303634	15.02216	9.09661007	9.130007744	0.022549925	19.38679123	465.283	7.289916992	7.317779541	0.029690497	25.5151329	612.3632202	24	20625.09961
	22	494.2606	853.0209351	3.286463	15.05272	9.33445835	9.413452148	0.023250001	19.85333443	476.48	7.177673817	7.242631912	0.029385587	25.066576	601.5977783	24	20472.50244
	23	498.7748	860.8110962	3.295876	15.03597	10.1559305	10.21702099	0.025234716	21.72958374	521.51	7.070358753	7.113728523	0.028862596	24.8463039	596.3112793	24	20659.46631

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	502.2029	866.7282104	3.289736	15.04689	11.1039734	11.19159222	0.027641773	23.95800781	551.0342	7.042322636	7.098540306	0.02880097	24.9540787	573.9437866	24	20801.47705
	25	500.002	862.9303589	3.289199	15.04785	10.9764509	11.06702805	0.027334133	23.60699654	566.5679	7.044763088	7.10329771	0.028820267	24.8736954	596.968689	24	20710.32861
	26	504.621	870.9004517	3.303187	15.02298	10.98106	11.02423763	0.027228434	23.72613716	569.4273	7.284987926	7.313490391	0.029673075	25.842638	620.2233276	24	20901.61084
	27	494.1979	852.9118652	3.285192	15.05498	9.01378536	9.095541954	0.022464795	19.18619537	460.4687	7.28832674	7.356170654	0.029846245	25.4652996	611.1671753	24	20469.88477
	28	486.1152	838.9628906	3.28055	15.06325	9.0207777	9.111140251	0.022503316	18.89008331	453.362	7.03474617	7.11233902	0.028856957	24.2087173	581.0092163	24	20135.10938
	29	486.9947	840.4799805	3.299056	15.03031	9.40186787	9.449207306	0.023338309	19.61784554	470.8283	6.94523859	6.98145771	0.028325917	23.8077202	571.3853149	24	20171.51953
	30	486.3564	839.3799438	3.305415	15.01899	10.1001263	10.13202477	0.025024787	21.00826263	504.1983	6.82011652	6.84219265	0.027760884	23.3021336	559.2512207	24	20145.11865
	31	485.9006	838.5928955	3.27029	15.08149	10.302145	10.44401073	0.025795333	21.63725853	519.2942	6.768129826	6.863273621	0.027846413	23.3526039	560.4625244	24	20126.22949
Jan02	01	486.1263	838.9818115	3.259755	15.10023	9.79678535	9.960771561	0.0246018	20.64762497	495.543	6.928543568	7.048980236	0.028599879	23.9950409	575.8809814	24	20135.56348
	02	487.3741	841.1342163	3.26923	15.08338	9.93255901	10.06952763	0.024870399	20.92691231	502.2459	6.939674377	7.040163994	0.028564116	24.0251122	576.6027222	24	20187.22119
	03	493.4995	851.7076416	3.299311	15.02986	11.9537334	12.01408768	0.029673221	25.27311707	606.5548	6.743805885	6.778151035	0.027501034	23.4243126	562.1834717	24	20440.9834
	04	501.2609	865.1018677	3.289135	15.04795	13.1992207	13.30670452	0.032865822	28.4352417	682.4458	6.978784084	7.036159039	0.028547866	24.69767	592.7440796	24	20762.44482
	05	501.8376	866.0975952	3.276671	15.07013	13.6411963	13.80431652	0.034094863	29.53754234	708.901	6.899292469	6.982266903	0.028329208	24.5415535	588.9973145	24	20786.34229
	06	67.26103	557.1959839	2.136753	10.82828	10.0198603	16.03969955	0.039616041	20.55633926	102.7817	5.161017895	7.539711952	0.03059086	17.6104794	88.05239868	5	2785.979919
	07	415.6483	748.536377	2.921953	14.33822	15.0811958	32.2765007	0.079718664	23.37306404	537.5805	6.866692066	7.644640923	0.031016644	23.3312683	536.6191406	22.35833	16736.02602
	08	500.6291	864.0114746	3.31438	15.00305	7.93316841	7.937838554	0.019605437	16.95082092	406.8197	7.474181652	7.478686333	0.030343346	26.2172375	629.2136841	24	20736.27539
	09	497.302	858.2696533	3.302362	15.02443	6.86193085	6.892380238	0.017023275	14.61384201	350.7322	7.64238739	7.672652721	0.031130305	26.7222786	641.3347168	24	20598.47168
	10	497.4066	858.4499512	3.301408	15.02612	8.00200939	8.038542747	0.019854154	17.04603767	409.1049	7.242697716	7.274859428	0.029516337	25.338625	608.1270142	24	20602.79883
	11	447.9287	806.6693726	3.070485	14.07395	9.85227871	12.15894127	0.030031005	20.57435989	473.2103	6.83843565	7.076164246	0.02871017	24.0902519	554.0758057	23	18553.39557
	12															0	0
	13															0	0
	14															0	0
	15															0	0
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	26															0	0
	27															0	0
	28															0	0
	29															0	0
	30															0	0
	31															0	0
Feb02	01															0	0
	02	472.2965	889.2150879	3.221152	15.16893	8.35104275	20.29238892	0.050119512	13.83591747	304.3902	11.03947163	11.48133183	0.046583347	40.9533958	900.9747314	21.83333	19414.52829
	03	528.3793	911.9038086	3.322075	14.98936	0.78252155	0.781119406	0.001929264	1.762207508	42.29298	10.86531258	10.84591293	0.04400517	40.1273994	963.0576172	24	21885.69141
	04	525.1378	906.309082	3.330979	14.97351	0.78745043	0.783476412	0.001935084	1.757663369	42.18392	11.03384209	10.98461246	0.044567909	40.393322	969.4396973	24	21751.41797
	05	521.7634	900.4865112	3.348976	14.94149	0.79015309	0.782951951	0.001933789	1.743018746	41.83245	10.99647045	10.88953781	0.044182234	39.7900429	954.9609985	24	21611.67627
	06	516.5933	891.5633545	3.341663	14.95451	0.84229988	0.835580349	0.002063776	1.844950438	44.27881	10.42445469	10.34311008	0.041965146	37.4571877	898.9725342	24	21397.52051
	07	510.2416	880.6013184	3.324873	14.98438	0.78633726	0.783626676	0.001935454	1.709127069	41.01905	9.730491638	9.704336166	0.039373491	34.6823807	832.3770752	24	21134.43164
	08	517.5768	893.2607422	3.353429	14.93358	0.91654611	0.906222939	0.002238252	2.000169516	48.00407	9.42476368	9.318843842	0.037809413	33.7802925	810.7269897	24	21438.25781
	09	516.0353	890.6008911	3.330534	14.97431	0.90859693	0.9036538	0.002231907	1.992230058	47.81352	9.705519676	9.666717529	0.039220866	34.9163589	837.9926147	24	21374.42139
	10	511.6295	882.9957275	3.326656	14.98122	0.87107718	0.866127133	0.00213922	1.894376278	45.46503	9.667219162	9.643155098	0.039125245	34.525444	828.6107178	24	21191.89746
	11	512.244	884.0578613	3.318896	14.99501	0.83641797	0.835087419	0.002062557	1.826107502	43.82658	9.737169266	9.729899406	0.039477177	34.8911362	837.3873291	24	21217.38867
	12	511.9727	883.5884399	3.32125	14.99082	0.8308531	0.82941699	0.002048553	1.811686277	43.48047	9.685498238	9.672924995	0.039246012	34.6769676	832.2471924	24	21206.12256
	13	508.6787	877.9035034	3.33206	14.97159	0.88427228	0.879376769	0.002171945	1.908180475	45.79633	9.615066528	9.56964016	0.038826976	34.0867462	818.0819092	24	21069.68408
	14	510.404	880.8811646	3.350757	14.93833	1.01766062	1.007097483	0.002487401	2.193924665	52.65419	9.513792038	9.415949821	0.038203392	33.6558609	807.7406616	24	21141.14795

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	506.9068	874.845459	3.34885	14.94173	0.90684789	0.897464275	0.00221662	1.94152081	46.5965	9.395986557	9.304363251	0.037750676	33.0254745	792.6113892	24	20996.29102
	16	509.4072	879.1599731	3.341473	14.95485	0.97139603	0.963973641	0.002380889	2.09504509	50.28108	9.552267075	9.47978878	0.038462419	33.8146935	811.5526123	24	21099.83936
	17	509.764	879.7763062	3.33613	14.96435	0.77822953	0.773065388	0.001909371	1.682304144	40.3753	9.84559536	9.787053108	0.039709084	34.9327431	838.3858032	24	21114.63135
	18	516.4394	891.2978516	3.348785	14.94185	0.86265004	0.85376507	0.002108688	1.880894184	45.14146	9.795830727	9.700183868	0.039356619	35.0782127	841.8770752	24	21391.14844
	19	514.1345	887.3199463	3.334948	14.96646	0.91691262	0.911503196	0.002251294	1.997196078	45.93551	9.417413712	9.364355087	0.037994083	33.7118492	775.3724976	24	21295.67871
	20	509.8266	879.885437	3.333587	14.96887	0.94071233	0.935336471	0.002310158	2.034234524	48.82163	9.005361557	8.959035873	0.036349576	31.9813786	767.5531006	24	21117.25049
	21	506.4503	874.0582275	3.34376	14.95078	0.82258606	0.815573096	0.002014358	1.761408806	42.27381	8.885485649	8.813388824	0.035758611	31.2603092	750.2473755	24	20977.39746
	22	501.0136	864.675354	3.314827	15.00225	0.83244294	0.832113206	0.002055211	1.778597951	42.68635	9.033500671	9.037714958	0.036668777	31.7054539	760.9309082	24	20752.2085
	23	505.9564	873.2047729	3.318834	14.99514	0.77123404	0.770967603	0.001904188	1.664500833	39.94802	9.44113636	9.434082031	0.038276959	33.4254456	802.2106934	24	20956.91455
	24	511.7007	883.1190796	3.31667	14.99898	0.83117139	0.830967605	0.002052383	1.814157963	43.53979	9.421422005	9.419960022	0.038219679	33.7561874	810.1484985	24	21194.85791
	25	509.2115	878.8233643	3.304466	15.02069	0.84773314	0.850420654	0.002100427	1.84623909	42.4635	9.19466877	9.226459503	0.037434582	32.8887901	756.4421997	24	21091.76074
	26	505.0742	871.6828613	3.314891	15.00214	0.79524076	0.795139253	0.00196389	1.712914944	41.10996	9.082785606	9.089571953	0.036879193	32.1482849	771.5587769	24	20920.38867
	27	502.4835	867.211853	3.322013	14.98946	0.75501764	0.753651083	0.00186142	1.615969539	38.78327	9.208542824	9.194054604	0.037303112	32.3484955	776.3638916	24	20813.08447
	28	502.6566	867.5105591	3.330535	14.97431	0.66725826	0.663769662	0.001639425	1.424475551	34.18741	9.458785057	9.419528961	0.038217928	33.1531296	795.6751099	24	20820.25342
Mar02	01	507.5442	875.9453735	3.299946	15.02872	0.66582733	0.668650389	0.001651479	1.449525595	34.78862	10.00521374	10.05486965	0.04079568	35.7332268	857.5974121	24	21022.68896
	02	510.3741	880.8289185	3.278006	15.06777	0.71749723	0.725094557	0.001790888	1.580427885	37.93027	9.907598495	10.02355385	0.040668629	35.8162537	859.5900879	24	21139.89404
	03	508.2831	877.2209473	3.271584	15.07919	0.73880118	0.748446405	0.001848564	1.623494148	38.96386	9.599806786	9.730594635	0.039480012	34.6279526	831.0709229	24	21053.30273
	04	509.4893	879.3021851	3.258291	15.10285	0.79285586	0.806332707	0.001991537	1.753393769	42.08145	9.526034355	9.696219444	0.03934053	34.5893517	830.1444092	24	21103.25244
	05	506.0104	873.2996826	3.280231	15.0638	0.77981913	0.787279904	0.001944478	1.700276256	40.80663	9.512522697	9.619777679	0.039030381	34.0797768	817.9146118	24	20959.19238
	06	502.3762	867.0268555	3.301917	15.02522	0.73578054	0.738131762	0.001823088	1.582484961	37.97964	9.238591194	9.281366348	0.037657358	32.6458092	783.4993896	24	20808.64453
	07	507.6815	876.1824951	3.305479	15.01889	0.78935856	0.791414022	0.00195469	1.71323204	41.11757	9.308545113	9.33955574	0.037893441	33.2032509	796.8779907	24	21028.37988
	08	518.1514	894.2516479	3.296828	15.03428	0.88888347	0.893351853	0.002206462	1.976275444	47.43061	9.796624184	9.853466988	0.039978534	35.7538261	858.0917969	24	21462.03955
	09	512.4148	884.3516846	3.291042	15.04457	0.97314429	0.979695678	0.002419721	2.146428823	51.51429	9.302820206	9.373398781	0.038030759	33.6420135	807.4083252	24	21224.44043
	10	507.6212	876.078064	3.280741	15.0629	0.83164817	0.839961827	0.002074594	1.81925416	43.6621	9.273407936	9.374622345	0.038035724	33.321003	799.7041016	24	21025.87354
	11	509.387	879.1268921	3.288961	15.04827	0.95661736	0.963705122	0.002380224	2.093857288	48.15872	9.047796249	9.123780251	0.037017975	32.5356255	748.319397	24	21099.04541
	12	504.8683	871.3272705	3.279468	15.06517	0.86026531	0.870199144	0.00214928	1.873674989	44.9682	9.179448128	9.284217834	0.037668929	32.822773	787.746582	24	20911.85449
	13	512.0001	883.6358643	3.269993	15.08202	0.79444587	0.805318415	0.001989032	1.759271622	42.22252	9.780402184	9.919407845	0.040246077	35.5607071	853.4570313	24	21207.26074
	14	515.2969	889.3254395	3.292441	15.04208	0.87393814	0.879848599	0.002173112	1.935570002	46.45368	9.775322914	9.846147537	0.039948836	35.5243225	852.5837402	24	21343.81055
	15	511.7474	883.199707	3.271455	15.0794	0.82656014	0.836849153	0.002066906	1.831212878	43.94911	9.897102356	10.03309441	0.040707324	35.9449158	862.6779785	24	21196.79297
	16	143.272	593.4384155	2.232753	12.57332	10.1236286	46.39894485	0.114599161	14.78428078	147.8428	8.095879555	11.16503334	0.04529988	28.1162319	281.162323	9.663889	5734.922935
	17	523.3869	903.2888794	3.302681	15.02388	0.87505066	0.877479911	0.002167261	1.961509943	47.07624	10.04433155	10.08539963	0.040919591	36.959404	887.0256958	24	21678.93311
	18	526.4698	908.6083984	3.232666	15.14842	0.81107008	0.831190765	0.002052933	1.867123485	42.94384	9.791400909	10.0461359	0.04076029	37.0091019	851.2092896	24	21806.60156
	19	516.4284	891.2789307	3.262999	15.09446	0.90382695	0.918423176	0.002268387	2.025039911	48.60096	9.582952499	9.739229202	0.039515045	35.2250671	845.4016113	24	21390.69434
	20	505.6483	872.6738281	3.274633	15.07376	0.8621732	0.872566462	0.002155125	1.881394625	45.15347	9.437004089	9.557655334	0.038778327	33.8445549	812.2692871	24	20944.17188
	21	501.8434	866.1071777	3.284746	15.05578	0.77520877	0.782341361	0.001932282	1.676303387	40.23128	9.459737778	9.550252914	0.038748294	33.5614929	805.4758301	24	20786.57227
	22	506.5614	874.2479858	3.301217	15.02646	0.69984996	0.702487051	0.001735052	1.517130375	36.41113	9.790430069	9.836452484	0.039909486	34.891346	837.392334	24	20981.95166
	23	509.8439	879.9140015	3.303253	15.02285	0.73959613	0.742369592	0.001833556	1.613806725	38.73136	9.555924416	9.593226433	0.038922671	34.2485733	821.9658203	24	21117.93604
	24	512.7222	884.8827515	3.295621	15.03643	0.67329949	0.676354766	0.001670508	1.482384324	35.57722	9.709186554	9.770918846	0.039643627	35.0740089	841.7761841	24	21237.18604
	25	511.3714	882.5499878	3.29187	15.0431	0.69905531	0.704193771	0.001739266	1.534062862	36.81751	9.672460556	9.743225098	0.03953125	34.8941116	837.4586792	24	21181.19971
	26	508.0109	876.7514038	3.29435	15.03868	0.71352261	0.71938467	0.001776785	1.55847168	37.40332	9.491535187	9.554636002	0.038766101	33.9903793	815.769104	24	21042.03369
	27	503.0055	868.1127319	3.302425	15.02431	0.7130456	0.716299951	0.001769167	1.535902977	36.86167	9.24638176	9.285392761	0.037673686	32.7043114	784.9035034	24	20834.70557
	28	501.9393	866.2729492	3.31966	14.99365	0.66073978	0.659679472	0.001629322	1.41221416	33.89314	9.520470619	9.510749817	0.038588032	33.4263573	802.232605	24	20790.55078
	29	497.7304	859.0092773	3.330151	14.97498	0.63450748	0.631750226	0.001560342	1.3434093	32.24182	9.413474083	9.373918533	0.038032871	32.6720123	784.1282959	24	20616.22266
	30	495.3354	854.8748779	3.324684	14.98472	0.58251935	0.580525577	0.001433823	1.228035808	29.47286	9.233185768	9.209300041	0.03736496	31.9450836	766.6820068	24	20516.99707
	31	494.7719	853.902832	3.313746	15.00417	0.71463543	0.715221882	0.001766503	1.508660793	36.20786	9.088986397	9.095524788	0.036903352	31.5122623	756.2943115	24	20493.66797
Apr02	01	494.7169	853.8079834	3.291976	15.0429	0.80742937	0.81265825	0.002007161	1.715832114	41.17997	9.154117584	9.221747398	0.037415471	31.9451504	766.6835938	24	20491.3916
	02	495.2147	854.6661987	3.307005	15.01617	0.72512901	0.727196813	0.001796082	1.537681699	36.90436	9.195506096	9.221054077	0.037412655	31.976017	767.4243774	24	20511.98877
	03	499.874	862.7075806	3.321821	14.98981	0.66328335	0.661579609	0.001634014	1.412665129	33.90396	9.197892189	9.181830406	0.037253518	32.1419487	771.4067993	24	20704.98193
	04	503.4067	868.8049927	3.316671	14.99897	0.68983394	0.68945539	0.001702864	1.480460763	35.53106	9.274681091	9.273258209	0.03762446	32.6897812	784.5546875	24	20851.31982
	05	507.1214	875.215271	3.30993	15.01097	0.69635212	0.697545469	0.001722846	1.508906245	36.21375	9.441455841	9.459427834	0.038379818	33.5921211	806.2109375	24	21005.1665
	06	501.8605	866.1355591	3.306432	15.0172	0.59746397	0.599262714	0.001480101	1.282385826	30.77726	9.628898621	9.657569885	0.039183721	33.9393082	814.543396	24	20787.25342
	07	478.8238	862.3087769	3.316544	14.9992	0.60386467	0.60357964	0.001490762	1.288205147	29.62872	9.494444847	9.493375778	0.038517542	33.2143173	763.9293213	24	20695.41064
	08	499.0576	861.2993164	3.312034	15.00723	0.68802762	0.688805044	0.001701258	1.467473865	32.28442	8.89058876	8.900450706	0.036111865	31.1316776	684.8969116	24	20671.18359

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	09	499.8848	862.7264404	3.319659	14.99365	0.52671587	0.527335346	0.001302451	1.126920819	27.0461	8.717122078	8.707938194	0.035330784	30.480938	731.5424805	24	20705.43457
	10	499.8685	862.697998	3.317751	14.99706	0.71225083	0.71142906	0.001757137	1.517593384	36.42224	8.591683388	8.587360382	0.034841564	30.0582008	721.3967896	24	20704.75195
	11	499.0691	861.3182983	3.314318	15.00316	0.56693852	0.567599177	0.001401895	1.212491632	29.0998	8.660046577	8.66523838	0.035157531	30.2803211	726.7277222	24	20671.63916
	12	496.3324	856.5959473	3.32252	14.98857	0.54054719	0.538896501	0.001331003	1.139969349	27.35926	8.63508606	8.618396759	0.034967478	29.9563656	718.9528198	24	20558.30273
	13	492.4964	849.9769287	3.314509	15.00282	0.58776587	0.588028491	0.001452353	1.238686204	29.72847	8.508852005	8.513082504	0.034540195	29.3564548	704.5548706	24	20399.44629
	14	487.8435	841.9451904	3.307832	15.01471	0.48871851	0.489656657	0.001209388	1.020367265	24.48881	8.662431717	8.685025215	0.035237823	29.6645203	711.9484863	24	20206.68457
	15	505.1288	871.77771	3.284366	15.05645	0.47456887	0.478952497	0.00118295	1.03415215	24.81965	9.722539902	9.81717205	0.039831292	34.731842	833.564209	24	20922.66504
	16	508.5907	877.7518921	3.303571	15.02228	0.71797413	0.719991803	0.001778285	1.561440825	37.47458	9.564509392	9.601383209	0.038955759	34.1927185	820.6253052	24	21066.04541
	17	508.091	876.888855	3.297909	15.03235	0.74659139	0.750104427	0.00185266	1.626587868	39.03811	9.453697205	9.506322861	0.038570076	33.8212662	811.7103882	24	21045.33252
	18	511.475	880.7270508	3.286782	15.07118	0.79206115	0.800496399	0.001977521	1.746384144	41.91322	9.44654274	9.564761162	0.038816471	34.1719513	820.1268311	24	21137.44922
	19	510.5246	877.6334229	3.287799	15.08307	0.75931019	0.770081818	0.001902769	1.671892524	40.12542	9.451153755	9.587283134	0.0389142	34.1507874	819.6188965	24	21063.20215
	20	505.0496	868.2210693	3.28888	15.08116	0.72035897	0.729961455	0.001803633	1.566757917	37.60219	9.402981758	9.535391808	0.038703561	33.6007538	806.4180908	24	20837.30566
	21	501.9068	862.8180542	3.295558	15.06932	0.81193423	0.821406007	0.002029581	1.752498746	42.05997	9.1486063	9.25804615	0.037577849	32.4241905	778.180603	24	20707.6333
	22	498.7029	857.3115234	3.302574	15.05692	0.86333913	0.871495008	0.002153345	1.846882463	44.32518	8.93985939	9.027302742	0.036641262	31.4128666	753.9088135	24	20575.47656
	23	496.9892	854.364563	3.306368	15.0502	0.8306942	0.837918878	0.002070382	1.770724177	42.49738	8.864340782	8.941394806	0.036292568	31.0054836	744.1315918	24	20504.74951
	24	499.6017	858.8557739	3.319723	15.02658	0.66391951	0.666496992	0.001646823	1.414623737	33.95097	8.751620293	8.791965485	0.035686068	30.6479759	735.5513916	24	20612.53857
	25	500.5638	860.5088501	3.315845	15.03344	0.75660747	0.760724723	0.001879645	1.615248203	38.76596	8.874517441	8.925338745	0.036227398	31.1733627	748.1607056	24	20652.2124
	26	500.3543	860.1498413	3.319597	15.0268	0.84563929	0.850340068	0.002101073	1.808471203	43.40331	8.992641449	9.033951759	0.036668245	31.5404549	756.9708862	24	20643.59619
	27	309.877	752.0106812	2.882909	13.9564	7.88221359	22.05620575	0.05449795	8.566984177	145.6387	8.865502357	9.565074921	0.038824048	30.9224644	525.6818848	16.325	12276.57494
	28	512.3354	880.7456055	3.31877	15.02826	0.8068465	0.810664773	0.002003042	1.765350461	42.36841	9.273727417	9.318824768	0.037824549	33.3155899	799.5742188	24	21137.89453
	29	508.6516	874.4124756	3.313237	15.03805	0.44022816	0.443157643	0.001094982	0.959178865	23.02029	9.308226585	9.369166374	0.038028874	33.2527504	798.065979	24	20985.89941
	30	511.3321	879.0219727	3.31311	15.03827	0.49650875	0.499470145	0.001234122	1.085459352	26.05102	9.435095787	9.497159004	0.038548384	33.8833961	813.2014771	24	21096.52734
May 02	01	508.5552	874.2471924	3.301154	15.05943	0.84913611	0.858763695	0.002121888	1.847222447	44.33334	9.452584267	9.549096107	0.038759205	33.8829842	813.1915894	24	20981.93262
	02	504.1613	866.6955566	3.325765	15.01589	0.95581478	0.95980978	0.002371558	2.055705786	49.33694	9.210290909	9.236388206	0.037489936	32.4916954	779.8007202	24	20800.69336
	03	501.9968	862.9740601	3.334859	14.9998	0.58363241	0.582947612	0.001440383	1.248901606	29.97364	8.941449165	8.941134453	0.036291525	31.3220577	751.7293701	24	20711.37744
	04	499.4368	858.5723267	3.320485	15.02522	0.59110457	0.592597783	0.001464229	1.258320928	30.1997	9.005838394	9.044653893	0.036711689	31.5192051	756.4608765	24	20605.73584
	05	498.2202	856.4801636	3.332951	15.00317	0.62830681	0.628775954	0.00155362	1.328374267	31.88098	8.945264816	8.950423241	0.036329214	31.1142464	746.7418823	24	20555.52393
	06	498.7939	857.4672241	3.315207	15.03456	0.72163087	0.725847721	0.001793469	1.538599372	36.92638	9.141926765	9.196728706	0.037328955	32.0052567	768.1262207	24	20579.21338
	07	501.4609	862.0531616	3.316734	15.03187	0.75628954	0.76020509	0.001878363	1.620502114	38.89205	9.237638474	9.289587021	0.037705876	32.5063667	780.152832	24	20689.27588
	08	504.632	867.5031738	3.328245	15.0115	0.86026531	0.861815512	0.002129427	1.848009229	44.35222	9.19884491	9.217185974	0.037411999	32.454113	778.8986816	24	20820.07617
	09	502.7146	864.206604	3.313617	15.03738	0.83991551	0.844865739	0.002087549	1.805547476	43.33314	9.236047745	9.296348572	0.037733313	32.6070061	782.5681152	24	20740.9585
	10	507.1235	871.7866821	3.308404	15.0466	0.85152107	0.858243644	0.002120602	1.849144578	44.37947	9.384378433	9.459646225	0.038396146	33.4725342	803.3408203	24	20922.88037
	11	503.8634	866.1807861	3.312983	15.0385	0.86662436	0.871744812	0.002153963	1.866978765	44.80749	9.122373581	9.183478355	0.037275165	32.2863312	774.8720093	24	20788.33887
	12	498.748	857.387146	3.32621	15.0151	0.83371502	0.834961057	0.002063073	1.77191329	42.52592	8.84367466	8.866270065	0.035987645	30.8570633	740.569519	24	20577.2915
	13	498.3156	856.6455688	3.301282	15.0592	0.92481327	0.933692575	0.002307025	1.978066206	47.47359	8.724434853	8.813441277	0.035773236	30.6458206	735.4996948	24	20559.49365
	14	498.5078	856.9761963	3.312092	15.04008	0.84850061	0.854425132	0.002111167	1.811215401	43.46917	8.890097618	8.951018333	0.036331639	31.1356659	747.2559814	24	20567.42871
	15	494.0906	849.381958	3.320932	15.02444	0.760741	0.763787031	0.001887213	1.60492003	38.51808	8.841766357	8.878875732	0.036038809	30.6104832	734.6516113	24	20385.16699
	16	494.1405	849.4668579	3.33575	14.99823	0.7602641	0.759733677	0.001877198	1.595876217	38.30103	8.812829971	8.810394287	0.035760857	30.3771877	729.0524902	24	20387.20459
	17	489.5903	841.6461792	3.327482	15.01285	0.63418925	0.634803057	0.001568512	1.321872473	31.72494	8.916329384	8.936638832	0.03627326	30.5268173	732.6436157	24	20199.5083
	18	491.3625	844.6921387	3.328118	15.01173	0.65994495	0.660959721	0.00163314	1.380787492	33.1389	8.940335274	8.958930016	0.036363747	30.7148876	737.1572876	24	20272.61133
	19	498.2969	856.6123657	3.342045	14.98709	0.63895899	0.637569249	0.001575345	1.35052228	32.41254	9.080559731	9.061328888	0.036779389	31.5070801	756.1699219	24	20558.69678
	20	503.039	864.763916	3.341854	14.98742	0.73959607	0.737849474	0.001823125	1.576960444	37.84705	9.063708305	9.045179367	0.036713813	31.7536793	762.0883179	24	20754.33398
	21	507.8739	873.0758667	3.324366	15.01836	0.57584202	0.577199221	0.001426179	1.246175885	29.90822	9.079447746	9.108050346	0.036969032	32.2759743	774.6234131	24	20953.8208
	22	503.9755	866.3743896	3.305032	15.05257	1.28491294	1.295918465	0.003202035	2.77414012	66.57937	9.013150215	9.095341682	0.036917422	31.9833088	767.5994263	24	20792.98535
	23	500.0983	859.7105103	3.30179	15.05832	1.38093936	1.395424366	0.003447898	2.966302633	71.19126	9.063707352	9.155899048	0.037163228	31.9514999	766.8359985	24	20633.05225
	24	493.3654	848.1350098	3.314318	15.03614	0.98602235	0.991657555	0.002450248	2.084730864	50.03354	8.836677551	8.891201019	0.036088832	30.6106663	734.6560059	24	20355.24023
	25	334.0988	725.4859009	2.857063	13.64827	3.56941724	10.03903866	0.024805082	6.08236742	115.565	8.036916733	8.860695839	0.035965025	27.3678284	519.9887085	18.29722	13274.37669
	26	495.3956	851.6251831	3.331997	15.00486	0.80430311	0.805827618	0.001991089	1.692807317	40.62737	9.07293129	9.080985069	0.036859158	31.3872414	753.2938232	24	20439.00439
	27	496.134	852.8955688	3.333015	15.00306	0.78395253	0.783897877	0.001936903	1.652289867	39.65496	8.946537971	8.951449394	0.036333371	30.98843	743.72229	24	20469.49365
	28	495.8845	852.4656982	3.308212	15.04694	0.83085263	0.837270617	0.002068781	1.764463544	42.34712	8.746373177	8.817196846	0.035788465	30.5058632	732.140686	24	20459.17676
	29	490.1546	842.6141968	3.306815	15.04941	0.88331807	0.89143765	0.002202619	1.85413897	44.49934	8.548916817	8.621522903	0.034994245	29.4883251	707.7197876	24	20222.74072
	30	483.8842	831.8369751	3.298738	15.06371	0.90732473	0.916575313	0.002264729	1.887897372	45.30954	8.421092987	8.513636589	0.034556318	28.7450752	689.8817749	24	19964.0874
	31	482.1806	828.9086914	3.300073	15.06135	0.60938764	0.615607619	0.001521082	1.261823297	30.28376	8.659252167	8.751978874	0.035523746	29.4484005	706.7615967	24	19893.80859

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Jun 02	01	491.7251	845.3156738	3.303825	15.0547	0.68395096	0.690193892	0.001705376	1.439944506	34.55867	9.180562019	9.267187119	0.037614938	31.7979507	763.1508179	24	20287.57617
	02	503.5628	865.6660156	3.315018	15.0349	0.6241731	0.626872838	0.001548916	1.343089819	32.23415	9.307589531	9.363503456	0.038005892	32.9008369	789.6201172	24	20775.98438
	03	497.904	855.9370728	3.315612	15.03385	0.80870211	0.812593758	0.002007806	1.713894606	41.13347	8.908327103	8.960277557	0.036369212	31.138237	747.317688	24	20542.48975
	04	490.3461	842.9447632	3.320995	15.02433	0.7882452	0.79130733	0.00195521	1.648891687	39.5734	8.514257431	8.54928875	0.034701038	29.2542324	702.1016235	24	20230.67432
	05	486.5222	836.3707886	3.31667	15.03197	0.63307625	0.63630712	0.001572228	1.317100048	31.6104	8.319820404	8.365207672	0.033953853	28.3992214	681.5812988	24	20072.89893
	06	484.2718	832.5028687	3.312346	15.03963	0.59809989	0.601052344	0.001485119	1.23667407	29.68018	8.388978004	8.447063446	0.034286115	28.5429497	685.0308228	24	19980.06885
	07	487.3101	837.7263184	3.311137	15.04176	0.86026514	0.86613977	0.002140112	1.792969465	43.03127	8.779921532	8.842665672	0.035891835	30.0690956	721.6583252	24	20105.43164
	08	494.8596	850.7042236	3.31915	15.02759	0.57059544	0.575281978	0.001421439	1.207621813	28.98292	9.074518204	9.117686272	0.037008129	31.4859409	755.6625977	24	20416.90137
	09	502.2529	863.413269	3.313492	15.0376	0.91670406	0.922939956	0.00228046	1.967436552	47.21848	9.501391411	9.563022614	0.038815718	33.5174294	804.4182739	24	20721.91846
	10	496.5991	853.6938477	3.303549	15.05519	0.65082955	0.657149374	0.001623726	1.385067344	33.24162	9.160105705	9.246674538	0.037531678	32.0432053	769.0368652	24	20488.65234
	11	494.0798	849.3629761	3.310057	15.04367	0.77759331	0.783737838	0.001936508	1.647397041	39.53753	8.91537571	8.982671738	0.036460109	30.9707546	743.2980957	24	20384.71143
	12	492.2773	846.2648315	3.311774	15.04064	0.86900944	0.875297666	0.002162738	1.82895422	43.8949	8.743354797	8.804522514	0.035737026	30.2428493	725.8284302	24	20310.35596
	13	492.2224	846.1703491	3.310566	15.04278	0.84357154	0.849914551	0.002100025	1.778269172	42.67846	8.786758423	8.851671219	0.035928398	30.4049416	729.7186279	24	20308.08838
	14	493.9342	849.1126099	3.31648	15.03231	0.82831013	0.832577288	0.002057185	1.75024128	42.00579	8.780239105	8.829357147	0.035837829	30.4391289	730.5391235	24	20378.70264
	15	491.3687	844.7017212	3.313937	15.03681	0.72067678	0.725315571	0.001792155	1.514420867	36.3461	8.768792152	8.823927879	0.035815783	30.2526798	726.0643311	24	20272.84131
	16	493.6948	848.7018433	3.317053	15.0313	0.74977106	0.753645837	0.001862155	1.581017494	37.94442	8.888985634	8.936793327	0.036273897	30.7847748	738.8345947	24	20368.84424
	17	492.7147	847.0158081	3.28995	15.07928	0.66224283	0.670413971	0.001656501	1.403843522	30.88456	8.654368401	8.772060394	0.035605267	30.1443825	663.1763916	24	20328.37939
	18	487.426	837.9244995	3.301537	15.05877	0.61844999	0.624340951	0.001542661	1.293402433	31.04166	8.42681694	8.511757851	0.0345487	28.9477577	694.7462158	24	20110.18799
	19	484.1291	832.2573242	3.312092	15.04009	0.64976996	0.654216588	0.001616479	1.345924139	32.30218	8.509329796	8.567673683	0.034775659	28.9409542	694.5828857	24	19974.17578
	20	487.467	837.9953003	3.30872	15.04604	0.68983412	0.695185065	0.001717707	1.440198302	34.56476	8.789142609	8.859305382	0.035959367	30.1372051	723.2929077	24	20111.88721
	21	496.1786	852.9711914	3.314571	15.03569	0.87950206	0.884838223	0.002186312	1.864788294	44.75492	8.958460808	9.013702393	0.036586076	31.2075615	748.9815063	24	20471.30859
	22	493.4475	848.2767334	3.311203	15.04165	0.71749729	0.723297358	0.001787168	1.518285871	36.43886	8.507899284	8.568754196	0.03478004	29.5057621	708.1383057	24	20358.6416
	23	487.308	837.7214355	3.312919	15.03861	0.56042045	0.564368844	0.001394478	1.170713186	28.09712	8.455116272	8.510975838	0.034545537	28.9378586	694.508606	24	20105.31445
	24	487.5334	838.1087646	3.303698	15.05492	0.66582727	0.672007322	0.001660438	1.391793489	33.40305	8.435878754	8.515414238	0.034563553	28.9673328	695.2160034	24	20114.61035
	25	485.2892	834.2503662	3.313363	15.03782	0.75581253	0.760602176	0.001879343	1.568564177	37.64554	8.251934052	8.305914879	0.033713188	28.1246796	674.9923096	24	20022.00879
	26	486.6483	836.5880127	3.313746	15.03715	0.64754415	0.651578128	0.001609961	1.347572088	32.34173	8.398674965	8.452505112	0.034308214	28.7016926	688.8405762	24	20078.1123
	27	486.9093	837.0366211	3.312792	15.03884	0.71781522	0.722350478	0.001784828	1.493627906	35.84707	8.447645187	8.503874779	0.034516715	28.8914089	693.3937988	24	20088.87891
	28	485.7007	834.9586182	3.303761	15.05481	0.63975382	0.645939529	0.001596028	1.333429813	32.00232	8.347482681	8.425907135	0.034200244	28.5554295	685.3303223	24	20039.00684
	29	449.6015	772.8306885	3.046398	14.20391	1.02227008	6.98724556	0.017264511	1.683859587	40.41263	7.718858719	8.185822487	0.033225745	26.4738636	635.3727417	24	18547.93652
	30	33.86804	698.6650391	2.82738	15.89765	3.78700995	12.88724422	0.031842574	7.768569946	15.53714	9.891994476	15.68330956	0.063657448	33.1637001	66.32740021	1.991667	1391.508125
Jul 02	01	481.0745	827.0055542	3.320741	15.02478	0.76423848	0.767283916	0.001895853	1.56882751	37.65186	8.247163773	8.282618523	0.03361864	27.8063545	667.352478	24	19848.1333
	02	488.7307	840.1679077	3.316226	15.03276	0.75072491	0.754745483	0.001864871	1.567437053	37.61849	8.488503456	8.536808014	0.034650393	29.1170998	698.8104248	24	20164.02979
	03	491.4726	844.8811646	3.315908	15.03333	0.63244057	0.636098027	0.001571711	1.32886374	31.89273	8.66529274	8.71487999	0.03537317	29.8869171	717.2860107	24	20277.14795
	04	490.3709	842.9871826	3.321251	15.02388	0.65056479	0.653363764	0.001614372	1.361393332	32.67344	8.679284096	8.71440506	0.035371251	29.8165913	715.5982056	24	20231.69238
	05	491.4038	844.7630615	3.321249	15.02388	0.81368268	0.816638947	0.002017802	1.705165386	40.92397	8.457183838	8.491972923	0.03446839	29.1173878	698.8173218	24	20274.31348
	06	490.6927	843.5397339	3.318896	15.02804	0.60541338	0.608223855	0.001502837	1.269129872	30.45912	8.420775414	8.461356163	0.034344126	28.9703407	695.288208	24	20244.95361
	07	489.6097	841.6790771	3.327673	15.01251	0.62655795	0.627878964	0.001551402	1.306607485	31.35858	8.256544113	8.274219513	0.033584557	28.2670422	678.4089966	24	20200.29785
	08	490.4282	843.0865479	3.33346	15.00228	0.74007303	0.740568399	0.001829843	1.544764161	37.07434	8.157178879	8.160383224	0.033122491	27.9254875	670.2116699	24	20234.07715
	09	485.7502	835.0436401	3.333205	15.00272	0.48983145	0.490575165	0.001212143	1.015496016	24.3719	8.122519493	8.126898766	0.032986574	27.5474453	661.1386719	24	20041.04736
	10	482.0661	828.7104492	3.333331	15.0025	0.48681071	0.487306803	0.001204069	0.998783767	23.97081	8.068147659	8.072174072	0.032764461	27.1513367	651.6320801	24	19889.05078
	11	485.5215	834.6514282	3.31737	15.03074	0.37727028	0.378688872	0.000935688	0.77969718	18.71273	8.33412838	8.378286362	0.034006953	28.3860283	681.2647095	24	20031.63428
	12	484.1068	832.2193604	3.325256	15.01679	0.73705256	0.738912046	0.001825749	1.521558285	36.5174	8.338419914	8.362551689	0.033943091	28.2529202	678.0700684	24	19973.26465
	13	485.2524	834.1887207	3.330343	15.00779	0.6725046	0.673084319	0.001663099	1.389449716	33.34679	8.128879547	8.139979362	0.033039674	27.5605373	661.4528809	24	20020.5293
	14	480.7802	826.5001831	3.343634	14.98427	0.59571499	0.59375906	0.001467097	1.213387847	29.12131	8.031105042	8.010500908	0.03251414	26.8717422	644.921814	24	19836.00439
	15	486.5	836.3330688	3.323328	15.0202	0.62650484	0.627703726	0.00155097	1.298171163	31.15611	8.154634476	8.183432579	0.033216063	27.7790546	666.6973267	24	20071.99365
	16	488.2228	839.2942505	3.330664	15.00723	0.68840301	0.688867033	0.001702097	1.429420471	34.30609	8.27132988	8.282168388	0.033616818	28.2165203	677.1965332	24	20143.06201
	17	488.9203	840.4937134	3.339566	14.99148	0.71813303	0.716950595	0.001771487	1.490937352	35.7825	8.166718483	8.155262947	0.033101715	27.8203583	667.6885986	24	20171.84912
	18	488.4485	839.6812744	3.328881	15.01038	0.75485873	0.756177545	0.001868409	1.571075797	37.70582	8.153203964	8.167955399	0.033153225	27.8368874	668.0853271	24	20152.35059
	19	485.7448	835.0341187	3.338165	14.99395	0.7445246	0.743744195	0.001837689	1.535277963	36.84667	8.073713303	8.065869331	0.032738883	27.3374214	656.0980835	24	20040.81885
	20	306.3543	743.4431152	2.985078	13.77565	3.53573442	7.646397591	0.018893192	4.910804749	83.48368	7.75560236	8.000602722	0.032473959	25.9948292	441.9121094	16.88611	12553.86245
	21	492.3076	846.3166504	3.330979	15.00666	0.72035897	0.721187472	0.001781954	1.51030004	36.2472	8.552412987	8.562316895	0.034753907	29.4139996	705.9359741	24	20311.59961
	22	493.4099	848.2106934	3.326908	15.01386	0.76185405	0.76368314	0.001886957	1.602059126	38.44942	8.464178085	8.484847069	0.034439478	29.2189999	701.2559814	24	20357.05664
	23	491.7693	845.3911743	3.341473	14.9881	0.81845242	0.816990733	0.00201867	1.708427548	41.00226	8.246845245	8.23208046	0.033413503	28.25737	678.1768799	24	20289.38818

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	488.734	840.1726074	3.343762	14.98405	0.83975619	0.83717382	0.00206854	1.740190029	41.76456	7.911708832	7.890538692	0.032027211	26.9095173	645.8283691	24	20164.14258
	25	487.3487	837.7924805	3.335621	14.99845	0.83975649	0.839427829	0.00207411	1.738379955	41.72112	7.982456207	7.980929852	0.032394107	27.1392632	651.3422852	24	20107.01953
	26	490.6568	843.4785156	3.322075	15.02241	0.76201332	0.764700592	0.00188947	1.594156265	38.25975	8.31012249	8.342090607	0.033860043	28.5598621	685.4367065	24	20243.48438
	27	490.3407	842.9353638	3.320932	15.02444	0.69062907	0.693284035	0.001713009	1.444577456	34.66986	8.450982094	8.487108231	0.03444865	29.0388966	696.9334717	24	20230.44873
	28	490.1292	842.5715942	3.354318	14.96537	0.72449249	0.720341444	0.001779864	1.500626683	36.01504	8.214572906	8.167541504	0.033151537	27.9355011	670.4520264	24	20221.71826
	29	489.9334	842.2363892	3.32621	15.0151	0.77075702	0.772044837	0.001907617	1.608337522	38.6001	7.989608765	8.010235786	0.032513048	27.3836422	657.2073975	24	20213.67334
	30	485.2964	834.2644653	3.344779	14.98225	0.79285598	0.791102767	0.001954706	1.632418275	39.17804	7.919974804	7.897236824	0.032054413	26.7423115	641.8154907	24	20022.34717
	31	486.6642	836.616333	3.339056	14.99238	0.78458875	0.783201814	0.001935183	1.620966673	38.9032	8.008371353	7.998240948	0.032464366	27.1592293	651.8215332	24	20078.79199
Aug 02	01	486.4476	836.2432861	3.338228	14.99384	0.73021597	0.729297519	0.001801993	1.508164644	36.19595	8.106305122	8.098504066	0.032871328	27.4869499	659.6867676	24	20069.83887
	02	485.5117	834.6327515	3.347833	14.97685	0.65628827	0.653915167	0.001615735	1.349514246	32.38834	8.115684509	8.084817886	0.032815784	27.3905964	657.3743286	24	20031.18604
	03	490.203	842.6991577	3.339883	14.99091	0.76773649	0.76626128	0.001893325	1.596434593	38.31443	8.10455513	8.092131615	0.032845471	27.6800327	664.3208008	24	20224.77979
	04	493.9396	849.1219482	3.339501	14.99159	0.83403307	0.832582355	0.002057197	1.748000026	41.952	8.252569199	8.241127014	0.033450242	28.4029865	681.6716919	24	20378.92676
	05	494.0908	849.381958	3.328562	15.01094	0.79842049	0.79983294	0.001976276	1.679897904	40.31755	8.28357029	8.299099922	0.03368555	28.61092	686.6621094	24	20385.16699
	06	496.4641	853.4624023	3.330916	15.00677	0.7171793	0.718145311	0.001774439	1.51587379	36.38097	8.381505966	8.391274452	0.034059659	29.0686665	697.6480103	24	20483.09766
	07	495.0464	851.0252686	3.32799	15.01195	0.81559086	0.816910565	0.002018474	1.718647957	41.24755	8.26815033	8.285261154	0.033629362	28.6194916	686.8677979	24	20424.60645
	08	491.9675	845.7311401	3.33982	14.99102	0.80875432	0.807899177	0.001996207	1.690057039	40.56137	8.177846909	8.165475845	0.033143166	28.0303879	672.7293091	24	20297.54736
	09	488.003	838.9163208	3.343254	14.98495	0.72783136	0.726022899	0.001793903	1.507033706	36.16881	8.136828423	8.11635685	0.032943793	27.6363506	663.2723999	24	20133.9917
	10	485.6185	834.8170166	3.327609	15.01262	0.68967515	0.691187799	0.00170783	1.42688334	34.2452	8.192950249	8.210924149	0.033327639	27.8218002	667.7232056	24	20035.6084
	11	486.1758	835.7756958	3.335177	14.99924	0.6920597	0.691799998	0.001709344	1.429754615	34.31411	8.19438076	8.193671227	0.033257607	27.7952538	667.0861206	24	20058.6167
	12	485.1158	833.9526978	3.329707	15.00891	0.81988347	0.820646524	0.002027703	1.691811204	40.60347	8.151245117	8.164309502	0.033138447	27.6347256	663.2333984	24	20014.86475
	13	483.8429	831.7660522	3.322904	15.02095	0.64913392	0.651279569	0.001609222	1.339419961	32.14608	8.169261932	8.199401855	0.033280868	27.6803875	664.3292847	24	19962.38525
	14	483.8648	831.803894	3.343253	14.98495	0.64706719	0.645252705	0.00159433	1.327857733	31.86858	8.174509048	8.154135704	0.033097144	27.529583	660.710022	24	19963.29346
	15	483.4342	831.0623779	3.345163	14.98158	0.61081868	0.608644247	0.001503877	1.250963211	30.02312	8.177370071	8.152384758	0.033090033	27.4976501	659.9436035	24	19945.49707
	16	482.8105	829.9902344	3.346179	14.97977	0.57870364	0.576640725	0.0014248	1.183582425	28.40598	8.144460678	8.117113113	0.032946866	27.3451366	656.2833252	24	19919.76563
	17	482.3298	829.1638184	3.35769	14.95941	0.63832307	0.633624136	0.001565597	1.298727036	31.16945	7.997398853	7.943410397	0.032241825	26.732563	641.5814819	24	19899.93164
	18	482.8324	830.0280151	3.334096	15.00115	0.59571499	0.595353425	0.001471035	1.221700072	29.3208	8.300743103	8.303701401	0.03370421	27.9738884	671.373291	24	19920.67236
	19	485.8823	835.2702637	3.330534	15.00745	0.55400807	0.554549396	0.001370215	1.145158768	27.48381	8.298144341	8.309066772	0.033725996	28.169754	676.0740967	24	20046.48633
	20	488.2338	839.3130493	3.335493	14.99868	0.62703508	0.626805484	0.001548749	1.300383329	31.2092	8.265288353	8.26363945	0.033541609	28.1510868	675.6260986	24	20143.51318
	21	491.047	844.1491699	3.33454	15.00036	0.58140659	0.581555903	0.001436944	1.213674426	29.12819	8.465608597	8.466345787	0.034364384	29.0098	696.2352295	24	20259.58008
	22	491.261	844.517334	3.348469	14.97573	0.70128071	0.698282063	0.001725359	1.458292484	34.99902	8.334923744	8.301225662	0.033694163	28.4557877	682.9389038	24	20268.41602
	23	492.489	846.628479	3.344464	14.98281	0.68267965	0.68039155	0.001681154	1.425475001	34.2114	8.217752457	8.194141388	0.033259515	28.1592083	675.8209839	24	20319.0835
	24	490.1015	842.5244751	3.337085	14.99586	0.6647144	0.664064944	0.001640812	1.383671641	33.20812	8.152885437	8.147441864	0.033069976	27.8607216	668.6572876	24	20220.5874
	25	490.4699	843.1573486	3.332758	15.00351	0.6694839	0.669445395	0.00165411	1.395972133	33.50333	8.180548668	8.186032295	0.033226594	28.0130463	672.3131104	24	20235.77637
	26	490.75	843.638916	3.327609	15.01262	0.6497699	0.651024818	0.001608593	1.358337045	32.60009	8.27784729	8.295956612	0.033672772	28.4060669	681.7456055	24	20247.33398
	27	486.6843	836.649231	3.334541	15.00036	0.5763191	0.576385021	0.001424168	1.192421675	28.61812	8.354001999	8.355031967	0.033912554	28.3724174	680.9379883	24	20079.58154
	28	484.6591	833.1685181	3.353237	14.96729	0.5891968	0.58610785	0.001448191	1.20730257	28.97526	8.34923172	8.303425789	0.033703092	28.0795498	673.9091797	24	19996.04443
	29	485.4427	834.5146484	3.363349	14.9494	0.57616019	0.571102142	0.001411114	1.178421617	28.28212	8.181025505	8.111698151	0.032924891	27.4764671	659.4351807	24	20028.35156
	30	484.0968	832.2005615	3.371552	14.93489	0.65088278	0.643715799	0.001590534	1.324535489	31.78885	8.112187386	8.024097443	0.032569315	27.1032085	650.4769897	24	19972.81348
	31	333.9644	725.1937866	2.953537	14.02446	3.71060324	10.92699814	0.026999192	5.339241028	101.4456	7.703955173	8.727071762	0.035422631	25.2363472	479.4906006	18.39722	13341.55146
Sep 02	01	486.8951	837.0130615	3.370218	14.93725	0.77155203	0.76328814	0.00188598	1.580608368	37.9346	8.237307549	8.151051521	0.03308462	27.6924458	664.6187134	24	20088.31348
	02	486.0466	835.5536499	3.356544	14.96144	0.73307765	0.728129685	0.001799108	1.503975391	36.09541	8.325543404	8.272276878	0.033576671	28.0534325	673.2824097	24	20053.2876
	03	487.5249	838.0944824	3.311156	15.04175	0.67721629	0.681299269	0.001683397	1.411432624	31.05152	8.539957047	8.599697113	0.034905642	29.2517452	643.5383911	24	20114.26758
	04	488.2608	839.3602905	3.308403	15.0466	0.68236166	0.687867641	0.001699627	1.427479148	34.2595	8.279596329	8.346503258	0.033877946	28.4394093	682.5457764	24	20144.64697
	05	496.1157	852.8624878	3.329644	15.00902	0.85724461	0.858317673	0.002120786	1.809605479	43.43053	8.442238808	8.455207825	0.03431917	29.2725716	702.541687	24	20468.69971
	06	494.5939	850.2460938	3.326272	15.01499	0.80748248	0.809315264	0.001999707	1.700792074	40.81901	8.566723824	8.589271545	0.034863319	29.6412048	711.388916	24	20405.90625
	07	497.077	854.515564	3.322776	15.02118	0.73355478	0.736263454	0.001819206	1.555733681	37.33761	8.830318451	8.862980843	0.035974294	30.738966	737.7352295	24	20508.37354
	08	498.6318	857.1885376	3.335177	14.99924	0.80859518	0.808229268	0.001997024	1.712621689	41.10292	8.608059883	8.606925011	0.034934986	29.9453831	718.689209	24	20572.5249
	09	492.9613	847.440918	3.322778	15.02118	0.67393547	0.676260114	0.001670944	1.418560028	34.04544	8.500426292	8.531416893	0.034628503	29.3466911	704.3206177	24	20338.58203
	10	488.7252	840.1583252	3.314063	15.03659	0.60445923	0.608041644	0.001502386	1.262834191	30.30802	8.395655632	8.448560715	0.034292195	28.8107452	691.4578857	24	20163.7998
	11	488.1568	839.1807861	3.310756	15.04244	0.59698707	0.601075828	0.001485176	1.246984124	29.92762	8.41425705	8.476086617	0.034403905	28.8691864	692.8604736	24	20140.33887
	12	487.9204	838.7746582	3.324048	15.01892	0.64309263	0.644988358	0.001593677	1.337692499	32.10462	8.430631638	8.458236694	0.034331478	28.7964706	691.1152954	24	20130.5918
	13	487.9087	838.7556763	3.328627	15.01083	0.65342647	0.654390275	0.001616906	1.356785893	32.56286	8.368787766	8.384601593	0.034032568	28.5445175	685.0684204	24	20130.13623
	14	487.1731	837.4899292	3.322458	15.02174	0.6561293	0.658584654	0.001627272	1.364164114	32.73994	8.484051704	8.515091896	0.03456223	28.9406414	694.5753784	24	20099.7583

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	486.8822	836.9893799	3.316097	15.03299	0.64309257	0.646521747	0.001597466	1.338649035	32.12758	8.317276955	8.364628792	0.033951517	28.4160252	681.9846191	24	20087.74512
	16	491.6651	845.211731	3.333397	15.00239	1.02878916	1.025427699	0.002533688	2.147867441	51.54882	8.361473083	8.364816666	0.033952281	28.6934662	688.6431885	24	20285.08154
	17	491.4704	844.8764648	3.33117	15.00632	0.69905519	0.699571967	0.001728545	1.462012053	35.08829	8.331585884	8.340965271	0.033855475	28.6024914	686.4597778	24	20277.03516
	18	485.571	834.7366333	3.332632	15.00374	0.5802936	0.580631912	0.001434662	1.199146152	28.77951	8.322680473	8.32845974	0.0338047	28.2177162	677.2252197	24	20033.6792
	19	478.6047	822.7597656	3.317626	15.03029	0.50859135	0.510871172	0.001262293	1.040312409	24.9675	8.319979668	8.364076614	0.033949271	27.9270458	670.2490845	24	19746.23438
	20	478.5984	822.7504272	3.309167	15.04525	0.54229641	0.546267271	0.001349751	1.111739993	26.68176	8.341601372	8.406612396	0.034121931	28.0747623	673.7943115	24	19746.01025
	21	479.9037	824.9935303	3.304207	15.05403	0.60048467	0.605896115	0.001497085	1.236647844	29.67955	8.201853752	8.278017044	0.033599954	27.7184715	665.2432861	24	19799.84473
	22	479.9725	825.1115112	3.312029	15.04019	0.72751302	0.73267132	0.00181033	1.493408799	35.84181	8.166718483	8.223046303	0.033376824	27.5393715	660.9448853	24	19802.67627
	23	477.8354	821.437439	3.302342	15.05733	0.54627132	0.55076623	0.001360867	1.122555852	26.94134	8.118598938	8.198471069	0.033277094	27.335413	656.0499268	24	19714.49854
	24	478.8597	823.1989746	3.313301	15.03794	0.71717906	0.721542537	0.001782831	1.466786385	35.20287	8.20026207	8.25353241	0.033500586	27.5776882	661.864502	24	19756.77539
	25	479.9644	825.0976563	3.319787	15.02647	0.78029627	0.784162521	0.001937558	1.597886205	38.34927	8.378167152	8.417180061	0.034164835	28.1860161	676.4644165	24	19802.34375
	26	482.0823	828.7387695	3.313555	15.03749	1.01082313	1.017292976	0.002513591	2.08410573	50.01854	8.502016068	8.556886673	0.03473188	28.7832546	690.7980957	24	19889.73047
	27	489.3322	841.2020264	3.336448	14.99699	0.86503524	0.86626327	0.002140419	1.798390985	43.16138	8.526182175	8.52233696	0.034591645	29.0980949	698.3543091	24	20188.84863
	28	492.368	846.4208374	3.346369	14.97944	0.76201302	0.759732723	0.001877193	1.58894527	38.13469	8.395656586	8.366605759	0.033959541	28.7439384	689.8544922	24	20314.1001
	29	493.6781	848.6732788	3.314579	15.03568	1.08045983	1.083199501	0.002676434	2.274594069	50.04107	8.29980278	8.350334167	0.033893511	28.7504539	632.5100098	24	20368.15869
	30	494.1592	849.499939	3.26145	15.12972	0.75310981	0.769391358	0.00190106	1.616452932	38.79487	8.266452789	8.45304966	0.034310408	29.1443329	699.4639893	24	20387.99854
Oct 02	01	498.0389	856.1685181	3.272219	15.11065	0.69635242	0.710184455	0.001754768	1.502878785	36.06909	8.595023155	8.759957314	0.035556134	30.4431381	730.6353149	24	20548.04443
	02	490.9509	843.9837646	3.283539	15.09062	0.84516209	0.858396769	0.002120982	1.776644111	42.63946	8.688029289	8.823076248	0.035812311	30.2446918	725.8726196	24	20255.61035
	03	497.8716	855.8804321	3.28125	15.09468	0.68077189	0.691344917	0.001708219	1.463922143	35.13413	8.647484779	8.788705826	0.035672829	30.5316467	732.7595215	24	20541.13037
	04	493.0986	847.677002	3.279406	15.09793	0.60684407	0.617207587	0.001525035	1.293947935	31.05475	8.761639595	8.909697533	0.036163915	30.6544952	735.7078857	24	20344.24805
	05	491.0045	844.0782471	3.293268	15.07338	0.63657427	0.644298553	0.001591973	1.345484614	32.29163	8.544465065	8.652041435	0.035118125	29.6446667	711.4719849	24	20257.87793
	06	486.6485	836.5880737	3.288881	15.08114	0.60096157	0.609231174	0.001505326	1.260797381	30.25914	8.303284645	8.419257164	0.034173258	28.5907497	686.1779785	24	20078.11377
	07	482.4451	829.3621216	3.289136	15.08069	0.55056351	0.558062315	0.001378895	1.144742489	27.47382	8.296290398	8.411561966	0.034142014	28.3150425	679.5609741	24	19904.69092
	08	478.8459	823.1754761	3.305224	15.05223	0.50223213	0.506604314	0.001251751	1.03149116	24.75579	8.415688515	8.491194725	0.034465231	28.3702049	680.8848877	24	19756.21143
	09	479.019	823.4729004	3.325193	15.0169	0.50652486	0.507932246	0.001255028	1.034105897	24.81854	8.411077499	8.435424805	0.034238886	28.1957703	676.6984863	24	19763.34961
	10	484.2203	832.4130249	3.342936	14.98551	0.57806814	0.576545	0.001424563	1.186949015	28.48678	8.449551582	8.42920208	0.034213603	28.4810371	683.5449219	24	19977.9126
	11	491.5739	845.0557861	3.350376	14.97235	0.71002501	0.706431687	0.001745495	1.476478338	35.43548	8.267673492	8.228825569	0.033400308	28.2281036	677.4744873	24	20281.33887
	12	282.966	686.741272	2.723581	13.00778	5.16255045	19.80517197	0.048936006	11.28863716	191.9068	6.877633095	7.608379841	0.030881947	23.5038948	399.5661926	16.69444	11464.76416
	13	251.0387	739.8092651	2.936398	13.71507	0.68962944	0.832957089	0.002058121	1.433882833	20.07436	8.162628174	9.45071125	0.038359858	27.9760647	391.664917	13.28056	9825.078172
	14	490.8184	843.757019	3.345924	14.98023	0.80175894	0.798743606	0.001973585	1.666526675	39.99664	8.433016777	8.405083656	0.034115717	28.7855549	690.8532715	24	20250.16846
	15	492.9944	847.4975586	3.343318	14.98484	0.81400096	0.811705589	0.002005614	1.701308727	40.83141	8.639378548	8.617444992	0.034977678	29.6435452	711.4451294	24	20339.94141
	16	498.4177	856.8200684	3.362076	14.95165	0.85565501	0.848840475	0.002097369	1.797925472	43.15021	8.800429344	8.729177475	0.035431199	30.3595467	728.6290894	24	20563.68164
	17	498.7085	857.3208008	3.365128	14.94625	0.8772766	0.869074523	0.002147363	1.842048287	44.20916	8.713307381	8.634531021	0.035047021	30.0488033	721.1713257	24	20575.69922
	18	495.1897	851.2710571	3.203983	15.23136	0.6939674	0.707406878	0.001747904	1.489282608	35.74278	8.319662094	8.688191414	0.035264842	30.0198212	720.475708	24	20430.50537
	19	496.6785	853.8308105	3.337976	14.99429	0.99540228	0.994392931	0.002457007	2.099483252	50.3876	8.484209061	8.476236343	0.03440452	29.377037	705.0488892	24	20491.93945
	20	494.6375	850.3216553	3.341853	14.98742	0.91225344	0.91041404	0.002249506	1.914798737	45.95517	8.50487709	8.487104416	0.034448635	29.2939339	703.0543823	24	20407.71973
	21	493.772	848.8339844	3.109885	15.39784	0.64892185	0.672807932	0.001662415	1.412462711	33.89911	8.251086235	8.880840302	0.036046796	30.593771	734.2504883	24	20372.01563
	22	496.4173	853.382019	3.30497	15.05268	0.85788065	0.865474164	0.002138468	1.826101303	43.82643	8.645578384	8.723623276	0.035408672	30.2185211	725.2445068	24	20481.16846
	23	499.1796	858.128479	3.311267	15.04154	0.94993258	0.956350446	0.00236301	2.029569864	48.70968	8.579280853	8.639984131	0.035069168	30.0959492	722.3027954	24	20595.0835
	24	503.7768	866.0343018	3.306813	15.04941	0.99937713	1.007667422	0.00248981	2.156800508	51.76321	8.602811813	8.675602913	0.035213754	30.4964256	731.9141846	24	20784.82324
	25	501.3632	861.8829956	3.307323	15.04851	0.96567202	0.973768592	0.002406047	2.074602127	49.79045	8.667042732	8.739320755	0.035472367	30.5748577	733.7966309	24	20685.19189
	26	499.8271	859.243103	3.302171	15.05763	0.95915395	0.968940854	0.002394117	2.058014631	49.39235	8.559727669	8.643489838	0.035083383	30.1429214	723.4301147	24	20621.83447
	27	499.2609	858.2700195	3.294222	15.07169	0.96360517	0.991898179	0.002450844	2.104127407	50.49906	8.56020546	8.796717644	0.035705317	30.645071	735.4816895	23.9	20512.65314
	28	498.854	857.5710449	3.326909	15.01386	0.98061615	0.982824385	0.002428425	2.083810806	50.01146	8.525385857	8.545637131	0.034686223	29.7462044	713.9088745	24	20581.70508
	29	496.618	853.7268677	3.338165	14.99395	0.92179215	0.920825005	0.002275232	1.943379641	46.64111	8.672606468	8.664181709	0.035167374	30.0235996	720.5664063	24	20489.44482
	30	497.2993	854.8980103	3.352601	14.96841	0.923859	0.918804765	0.002270242	1.941816211	46.60359	8.729999542	8.683666229	0.035246465	30.1323833	723.1771851	24	20517.55225
	31	503.1351	864.9291382	3.350502	14.97213	1.02672267	1.02155757	0.002524128	2.18417573	52.42022	8.765452385	8.724309921	0.035411432	30.6289883	735.0957031	24	20758.29932
Nov 02	01	503.9732	866.3696899	3.326909	15.01386	1.0001719	1.002109051	0.002476076	2.146430016	51.51432	8.808380127	8.829658508	0.035839058	31.0489368	745.1744995	24	20792.87256
	02	503.7446	865.9777222	3.306624	15.04975	1.05645168	1.064905405	0.002631234	2.281502962	54.75607	8.809333801	8.884697914	0.036062449	31.2273293	749.4559326	24	20783.46533
	03	502.7578	864.2822266	3.324049	15.01892	1.04611909	1.049348831	0.002592797	2.2427876	53.8269	8.781511307	8.810275078	0.035760365	30.9076748	741.7841797	24	20742.77344
	04	501.14	861.5004883	3.317858	15.02988	1.01924872	1.024004221	0.00253017	2.181433678	52.35441	8.778490067	8.823475838	0.035813954	30.8502121	740.4050903	24	20676.01172
	05	500.7908	860.9008179	3.306432	15.05009	1.19047499	1.2000736	0.002965215	2.554842949	61.31623	8.625864029	8.701028824	0.035316955	30.4043999	729.7056274	24	20661.61963
	06	499.1459	858.0717163	3.308403	15.0466	1.26313233	1.273018241	0.003145453	2.700861216	64.82067	8.550983429	8.619613647	0.034986489	30.0214043	720.5136719	24	20593.72119

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	07	496.3954	853.3443604	3.312284	15.03974	1.17886984	1.186811328	0.002932447	2.505618334	60.13484	8.250343323	8.306997299	0.033717588	28.7810497	690.7451782	24	20480.26465
	08	484.2198	832.4130859	3.334923	14.99969	0.91781759	0.917668521	0.002267433	1.889114141	45.33874	8.00057888	7.999657154	0.032470111	27.0265007	648.6359863	24	19977.91406
	09	485.829	835.180542	3.341599	14.98787	0.99731088	0.99498409	0.002458471	2.057528734	49.38069	8.104077339	8.087839127	0.032828048	27.4096088	657.8305664	24	20044.33301
	10	500.2473	859.9655762	3.322967	15.02084	1.35089207	1.35546875	0.003349176	2.881040335	69.14497	8.041278839	8.069968224	0.032755502	28.1686878	676.0485229	24	20639.17383
	11	500.5407	860.4708862	3.310884	15.04221	1.49604464	1.506638765	0.003722695	3.204185724	76.90046	7.891038418	7.947980881	0.03226037	27.7599659	666.2391968	24	20651.30127
	12	494.3025	849.7454224	3.320124	15.02586	1.28104365	1.286975384	0.003179938	2.707248211	64.97396	7.828557491	7.863312244	0.0319167	27.1238632	650.9727173	24	20393.89014
	13	495.3433	851.5354004	3.337784	14.99463	1.25152791	1.25028336	0.003089281	2.63125968	63.15023	7.884203434	7.877166271	0.031972926	27.2265511	653.4371948	24	20436.84961
	14	492.602	846.8220215	3.278197	15.10005	1.20605588	1.222817421	0.003021414	2.559743404	61.43384	7.792149067	7.935112476	0.03220813	27.2668419	654.4041748	24	20323.72852
	15	494.6978	850.4255981	3.343381	14.98472	1.20494378	1.201852798	0.002969614	2.528446198	60.68271	7.902008057	7.881912708	0.031992201	27.2101955	653.0446777	24	20410.21436
	16	496.4065	853.3630981	3.344906	14.98203	1.29286301	1.289006233	0.003184958	2.721853256	65.32448	8.057177544	8.034003258	0.03260953	27.8341751	668.0202026	24	20480.71436
	17	500.0189	859.5735474	3.345607	14.98079	1.29190874	1.287298322	0.00318074	2.735793352	65.65904	8.026810646	8.00083065	0.032474887	27.9160366	669.9849243	24	20629.76514
	18	500.1971	859.8804932	3.347068	14.9782	1.32428789	1.319197893	0.003259555	2.803715944	67.28918	7.801213264	7.772830486	0.031549435	27.1319256	651.1661987	24	20637.13184
	19	499.9502	859.4554443	3.347133	14.97809	1.43419957	1.428513765	0.00352966	3.035369635	72.84887	7.560987473	7.532928944	0.030575687	26.2798252	630.7158203	24	20626.93066
	20	492.1238	846.0004883	3.333778	15.00171	1.1648798	1.16516149	0.002878957	2.440227032	58.56545	7.659959793	7.66117239	0.031096222	26.2847385	604.5490112	24	20304.01172
	21	486.549	836.4177856	3.335432	14.99879	1.05597675	1.055167913	0.002607176	2.183393002	52.40143	7.918224812	7.918123722	0.032139171	26.8818378	645.1641235	24	20074.02686
	22	488.8325	840.3424683	3.349676	14.97359	1.1076448	1.102814555	0.002724904	2.291323662	54.99177	7.923155785	7.888035774	0.032017041	26.9057331	645.7376099	24	20168.21924
	23	497.7141	855.611145	3.349869	14.97325	1.15550041	1.150128722	0.002841812	2.431912422	58.3659	7.97625494	7.940438271	0.032229755	27.5761871	661.8284912	24	20534.66748
	24	498.8867	857.6278076	3.341981	14.9872	1.24675536	1.243861675	0.003073411	2.636390924	63.27338	7.956381798	7.939231396	0.032224849	27.637104	663.2905273	24	20583.06738
	25	496.9528	854.3028564	3.333206	15.00272	1.19142997	1.191963792	0.002945177	2.516640902	60.39938	8.000897408	8.004732132	0.032490712	27.7565327	666.1567993	24	20503.26855
	26	500.2619	859.9891968	3.330025	15.00835	1.26631045	1.267662048	0.003132219	2.695145369	64.68349	7.924267292	7.935638905	0.032210257	27.7010422	664.8250122	24	20639.74072
	27	501.2112	861.623291	3.32322	15.02039	1.2130512	1.216850877	0.003006675	2.591099501	62.18639	8.128880501	8.158755302	0.033115882	28.5365295	684.876709	24	20678.95898
	28	499.585	858.8273926	3.328753	15.0106	1.28681982	1.288400054	0.003183458	2.737354279	65.6965	8.069260597	8.084347725	0.032813858	28.1796494	676.3115845	24	20611.85742
	29	497.7857	855.7340698	3.328244	15.0115	1.20732892	1.20953238	0.002988586	2.558764696	61.41035	8.172441483	8.189088821	0.033239007	28.4447079	682.6729736	24	20537.61768
	30	494.8272	850.6474609	3.31419	15.03636	1.13133419	1.138234138	0.002812422	2.392862558	57.4287	7.928083897	7.977479935	0.032380108	27.5442467	661.0618896	24	20415.53906
Dec 02	01	496.6428	853.7692871	3.327734	15.0124	1.13721645	1.139675975	0.002815982	2.405228376	57.72548	7.928400517	7.945135593	0.032248829	27.5324879	660.7797241	24	20490.46289
	02	497.7504	855.6726074	3.324303	15.01847	1.11368668	1.11717999	0.002760401	2.362702847	56.70487	8.096287727	8.12184906	0.032966085	28.2098255	677.0358276	24	20536.14258
	03	497.7011	855.5877075	3.339437	14.9917	1.12624609	1.124544501	0.002778597	2.378242493	57.07782	8.081025124	8.069885254	0.032755174	28.0256958	672.6166992	24	20534.10498
	04	497.7723	855.7104492	3.338421	14.9935	1.16789913	1.1665591	0.002882411	2.467583656	59.22201	7.984204292	7.975563049	0.032372322	27.7024117	664.8579102	24	20537.05078
	05	497.679	855.5498047	3.334223	15.00093	1.21957207	1.219526291	0.00301328	2.578529119	61.8847	8.048592567	8.049993515	0.032674443	27.9556293	670.9351196	24	20533.19531
	06	494.5381	850.1516113	3.336895	14.9962	1.02974391	1.029034257	0.002542601	2.163261175	51.91827	8.186749458	8.18164444	0.03320878	28.2331715	677.5961304	24	20403.63867
	07	494.8105	850.6192627	3.348914	14.97494	1.10589719	1.101164699	0.002720827	2.315047026	55.56113	7.991359234	7.957692623	0.032299794	27.474926	659.3981934	24	20414.8623
	08	496.1619	852.9428101	3.330725	15.00711	1.19778979	1.199302435	0.002963312	2.528690338	60.68857	7.920928955	7.930783272	0.032190569	27.4567509	658.9619751	24	20470.62744
	09	495.0223	850.9827881	3.330025	15.00835	1.20017576	1.201572776	0.002968919	2.527305365	60.65533	8.138258934	8.150054932	0.033080593	28.1515331	675.6367798	24	20423.58691
	10	497.8298	855.8096313	3.334287	15.00081	1.55630004	1.556043744	0.003844768	3.291697025	79.00073	8.243825912	8.245207787	0.033466786	28.6412754	687.390625	24	20539.43115
	11	499.2782	858.2985229	3.322203	15.02219	1.46536088	1.470759153	0.003634042	3.119561672	74.86948	8.321251869	8.352828026	0.03390361	29.0993671	698.3848267	24	20599.16455
	12	500.2862	860.0318604	3.327101	15.01353	1.44723499	1.450669527	0.003584402	3.083724976	74.0094	8.397246361	8.417367935	0.034165572	29.3849239	705.2382202	24	20640.76465
	13	498.0331	856.1590576	3.332188	15.00453	1.37140036	1.372354984	0.003390906	2.903945923	69.6947	8.401536942	8.408336639	0.034128912	29.2212296	701.3095093	24	20547.81738
	14	25.77472	354.4706726	1.402626	7.96841	1.71320999	8.06523037	0.019928038	2.893606663	8.68082	4.150136471	7.477113247	0.030349167	13.7164001	41.14920044	3	1063.412018
	15															0	0
	16	35.7225	368.4595642	1.465584	10.47222	20.5968208	71.64090729	0.177014813	31.86576462	127.4631	4.654114723	8.256714821	0.033513449	15.1266346	60.50653839	3.769444	1388.887689
	17	509.3024	875.5318604	3.276862	15.10243	1.2749182	1.296983957	0.003204672	2.808363438	64.59236	8.532576561	8.683621407	0.035246301	30.862257	709.8319092	24	21012.76465
	18	516.3762	887.692749	3.297529	15.06584	1.52386665	1.5409621	0.003807507	3.381192446	81.14862	8.482938766	8.578660011	0.034820255	30.9098244	741.8358154	24	21304.62598
	19	501.5961	862.2843628	3.183506	15.26762	1.16472089	1.207100034	0.002982577	2.590550184	62.17321	8.521252632	8.923727989	0.036220867	31.2425709	749.8217163	24	20694.82471
	20	495.212	851.3088989	3.202647	15.23372	1.231812	1.277689576	0.003156994	2.689238787	64.54173	7.941755295	8.266626358	0.033553716	28.5783081	685.8793945	24	20431.41357
	21	504.5387	867.3425293	3.267196	15.11955	1.09922016	1.121574759	0.002771259	2.404774666	57.71459	8.350503922	8.523381233	0.034595888	30.0061092	720.1466064	24	20816.2207
	22	496.9917	854.3691406	3.287863	15.08294	2.44359207	2.478275061	0.006123475	5.188703537	124.5289	7.943025589	8.056490898	0.032700803	27.96315	671.1156006	24	20504.85938
	23	489.5084	841.5043945	3.309358	15.04492	2.50480175	2.520770788	0.006228476	5.205104351	124.9225	8.081662178	8.145218849	0.033060949	27.8483009	668.3591919	24	20196.10547
	24	487.2695	837.6552734	3.31489	15.03512	2.75361204	2.767004251	0.006836887	5.681175232	136.3482	7.806617737	7.854194641	0.031879682	26.7292957	641.5031128	24	20103.72656
	25	483.2364	830.7223511	3.290789	15.07779	3.05186749	3.088923454	0.0076323	6.315506458	151.5722	7.650336266	7.752622604	0.031467415	26.1520672	627.6495972	24	19937.33643
	26	487.0413	837.2631836	3.264714	15.12395	1.91242456	1.950388193	0.004819143	4.000888348	96.02132	7.73745966	7.904230118	0.032082792	26.8863544	645.272522	24	20094.31641
	27	493.2805	847.9886475	3.269421	15.11562	1.45105112	1.477886081	0.003651651	3.080304623	73.92731	7.714247704	7.869477272	0.031941716	27.0938625	650.2526855	24	20351.72754
	28	494.8734	850.7279663	3.267767	15.11854	1.26647127	1.287564635	0.003181395	2.689330816	64.54394	8.078322411	8.247974396	0.033478029	28.4997787	683.9946899	24	20417.47119
	29	479.0196	823.4729004	3.313363	15.03782	2.23786592	2.250816584	0.00556146	4.572799683	109.7472	7.661465645	7.71135807	0.03129993	25.7776413	618.6633911	24	19763.34961

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	487.0109	837.2113647	3.287991	15.08272	1.94438112	1.955049157	0.004830657	4.002661228	96.06387	7.664486408	7.780570507	0.031580858	26.4669342	635.2064209	24	20093.07275
	31	498.2717	856.5700073	3.179945	15.2739	1.32577276	1.355906367	0.003350258	2.82818532	67.87645	7.438091278	7.819291592	0.031738028	27.2156124	653.1746826	24	20557.68018
Jan 03	01	474.4092	815.5480957	3.325956	15.01555	2.40289164	2.407875538	0.005949525	4.845103264	116.2825	7.367820263	7.387201309	0.029984204	24.451767	586.8424072	24	19573.1543
	02	490.4453	843.1148682	3.308339	15.04672	1.99636912	2.006497622	0.00495778	4.129558563	99.10941	7.616155624	7.67877388	0.031167675	26.3024502	631.2587891	24	20234.75684
	03	500.5989	860.5700684	3.315336	15.03434	1.58761954	1.598028779	0.003948507	3.38711381	81.29073	7.703118801	7.747816086	0.031447925	27.0764008	649.8336182	24	20653.68164
	04	501.3984	861.944397	3.319024	15.02781	1.82450712	1.835497141	0.004535258	3.904203653	93.70089	7.565756321	7.600728035	0.0308509	26.5964661	638.3151855	24	20686.66553
	05	501.7585	862.5632324	3.318006	15.02961	1.741835	1.751367927	0.004327388	3.718497992	89.24395	7.667187691	7.705725193	0.031277072	26.9877453	647.7059326	24	20701.51758
	06	505.0467	868.2163086	3.306686	15.04964	1.32640707	1.337454557	0.003304665	2.870387793	68.88931	7.804870129	7.871079922	0.031948231	27.7396507	665.7515869	24	20837.19141
	07	494.4395	849.9816895	3.309484	15.04469	2.3653717	2.383174658	0.005888498	4.94631052	118.7114	7.559238434	7.61666441	0.030915579	26.3031292	631.2750854	24	20399.56055
	08	500.9502	861.1746826	3.304779	15.05302	1.39381766	1.406657577	0.003475655	2.993385077	71.84124	7.93507719	8.006827354	0.032499239	27.991991	671.8078003	24	20668.19238
	09	499.3707	858.4591064	3.311583	15.04097	1.22195554	1.229916692	0.003038954	2.611084461	62.66603	7.782610416	7.837613106	0.031812392	27.3067341	655.3615723	24	20603.01855
	10	500.69	860.7258911	3.316099	15.03299	1.31670916	1.323277116	0.003269637	2.816940784	67.60658	7.484354496	7.527177811	0.030552346	26.2948284	631.0759277	24	20657.42139
	11	501.2118	861.6231689	3.299819	15.06179	1.38411915	1.398337483	0.003455098	2.97837925	71.4811	7.494373798	7.574015617	0.030742453	26.4892998	635.7432251	24	20678.95605
	12	502.6869	864.1594849	3.327992	15.01195	1.46774745	1.470499992	0.003633401	3.140670776	75.3761	7.444449902	7.459684372	0.030278409	26.1652966	627.9671021	24	20739.82764
	13	502.621	864.0462036	3.294159	15.0718	1.43228996	1.449655056	0.0035819	3.09623909	74.30974	7.431731701	7.52329874	0.03053662	26.3849754	633.2393799	24	20737.10889
	14	504.5605	867.3803711	3.318705	15.02838	1.84946668	1.856178284	0.004586366	3.951679945	94.84032	7.527122974	7.564477921	0.030703755	26.6498413	639.5961914	24	20817.12891
	15	504.4345	867.1630859	3.315526	15.034	1.60685623	1.615743279	0.003992277	3.451509237	82.83622	7.540158272	7.584261417	0.030784057	26.7006302	640.8151245	24	20811.91406
	16	491.86	845.5471191	3.315844	15.03344	2.44534087	2.456689596	0.006070143	5.074027538	121.7767	7.254462719	7.296280384	0.029615168	25.061079	601.4658813	24	20293.13086
	17	497.4264	855.1153564	3.321059	15.02421	2.55249596	2.560689926	0.006327112	5.353239059	128.4777	7.478632927	7.510259628	0.030483671	26.0998993	626.397583	24	20522.76855
	18	508.7471	874.5778198	3.307833	15.04761	1.69700122	1.709792495	0.004224663	3.687400341	88.49761	7.740321159	7.803735256	0.031674899	27.7067127	664.9611206	24	20989.86768
	19	479.9037	824.9936523	3.33804	14.99417	3.11530328	3.108492613	0.007680657	6.294371605	151.0649	7.314718723	7.308682442	0.029665483	24.4956703	587.8961182	24	19799.84766
	20	483.4697	831.1237183	3.333333	15.0025	3.32118797	3.319450855	0.008201906	6.733438015	161.6025	7.482924938	7.487210274	0.030390121	25.3005047	607.2120972	24	19946.96924
	21	489.0964	840.7959595	3.329136	15.00992	2.73977947	2.741579533	0.006774067	5.616370201	134.7929	7.337930679	7.350626945	0.029835738	25.103796	602.4910889	24	20179.10303
	22	501.9557	862.9031982	3.313236	15.03805	1.49509001	1.503762126	0.003715587	3.208904505	77.01371	7.486422539	7.535835743	0.030587504	26.3943462	633.4642944	24	20709.67676
	23	499.5688	858.7990723	3.305605	15.05155	1.4141674	1.425825715	0.003523014	3.029696226	72.71271	7.377676487	7.443198204	0.030211495	25.9436092	622.6466064	24	20611.17773
	24	501.0458	861.3398438	3.316226	15.03276	1.52974916	1.537972093	0.003800117	3.274654627	78.59171	7.292142868	7.333189011	0.029764971	25.636858	615.2846069	24	20672.15625
	25	175.7721	659.2719727	2.596985	13.45528	14.453598	41.30662918	0.102063172	15.65682888	172.2251	7.173731804	8.766458511	0.035582516	23.9433041	263.3763428	10.35278	6825.296661
	26	504.9616	868.0699463	3.313173	15.03816	1.47823954	1.487628341	0.003675725	3.191715479	76.60117	7.688651085	7.738708496	0.031410929	27.2675533	654.4213257	24	20833.67871
	27	506.1071	870.0393066	3.31451	15.0358	1.5440588	1.55302453	0.00383731	3.341866732	80.2048	7.941118717	7.989577293	0.0324292	28.2162876	677.190918	24	20880.94336
	28	504.0162	866.4451904	3.296894	15.06697	1.49154043	1.508268356	0.003726721	3.227091789	77.4502	7.878798008	7.969867706	0.032349207	28.0295715	672.7097168	24	20794.68457
	29	501.8787	862.7709351	3.300137	15.06123	1.41591585	1.430636287	0.003534902	3.050397396	73.20954	7.728716373	7.810150623	0.03170092	27.3511333	656.4271851	24	20706.50244
	30	503.1761	865.0001831	3.324428	15.01825	1.5892092	1.593980789	0.003938506	3.408820868	81.8117	7.642705441	7.666457176	0.031117683	26.9157085	645.9769897	24	20760.00439
	31	503.2636	865.151123	3.316036	15.0331	1.58952749	1.59808588	0.003948647	3.419780493	82.07473	7.783883095	7.827612877	0.031771783	27.4891758	659.7401733	24	20763.62695
Feb 03	1	506.8159	871.2578125	3.301727	15.05842	1.4788754	1.494122505	0.00369177	3.217161179	77.21187	8.033013344	8.113823891	0.032933511	28.6948204	688.6757202	24	20910.1875
	2	493.1924	847.8376465	3.316609	15.03209	1.91767252	1.926960945	0.004761257	4.008221626	96.19732	7.94620657	7.99028635	0.032432087	27.5176868	660.4244995	24	20348.10352
	3	479.7117	824.663147	3.316925	15.03152	2.30543494	2.31630826	0.00572328	4.668705463	112.0489	7.784519196	7.826962471	0.031769153	26.2257919	629.4190063	24	19791.91553
	4	495.4807	851.7716064	3.307068	15.04896	1.68905163	1.700963736	0.00420285	3.541565895	84.99758	7.993266106	8.060739517	0.032718029	27.8944378	669.4664917	24	20442.51855
	5	489.8463	842.085144	3.302555	15.05695	1.81941879	1.832739711	0.004528449	3.770745516	90.49789	7.980705261	8.060398102	0.032716665	27.5782833	661.8787842	24	20210.04346
	6	493.3548	848.1162109	3.29276	15.0743	1.42927098	1.443410397	0.00356647	2.995169163	71.88406	8.302014351	8.410198212	0.034136474	28.9721088	695.3305664	24	20354.78906
	7	494.9451	850.850708	3.053265	15.49804	0.58522213	0.620293558	0.001532661	1.307074904	31.3698	7.954314709	8.687624931	0.035262529	30.0087547	720.210083	24	20420.41699
	8	496.0875	852.8153687	3.308722	15.04604	1.56742787	1.577885866	0.003898738	3.293823004	79.05175	8.173871994	8.239181519	0.033442322	28.5487576	685.1702271	24	20467.56885
	9	486.2469	835.8984985	3.313555	15.03749	1.91481042	1.922778726	0.00475092	3.928090811	94.27418	7.948750496	8.000930786	0.032475274	27.1761494	652.2276001	24	20061.56396
	10	490.5383	843.2753296	3.28818	15.08241	1.69477308	1.714131951	0.004235383	3.523478746	84.56349	8.007627487	8.12300396	0.032970775	27.8375492	668.1011963	24	20238.60791
	11	496.9153	854.2369995	3.299372	15.06259	1.20192182	1.214007735	0.002999642	2.552522421	61.26054	7.998513699	8.086229324	0.032821517	28.0571995	673.3728027	24	20501.68799
	12	491.2011	844.4135132	3.316226	15.03276	0.82115513	0.825806439	0.002040453	1.723726273	41.36943	7.857810497	7.902178764	0.032074466	27.0837956	650.0111084	24	20265.92432
	13	497.4969	855.2379761	3.344844	14.98214	1.11670744	1.113040209	0.002750169	2.354257107	56.50217	7.678953648	7.656369209	0.031076742	26.5783672	637.8807983	24	20525.71143
	14	504.4197	867.1395264	3.346051	14.98	1.29826796	1.293483734	0.003196019	2.772523642	66.54057	7.558759212	7.533582687	0.030578341	26.5155335	636.3728027	24	20811.34863
	15	500.3329	860.1120605	3.346455	14.97929	1.36165047	1.356722474	0.003352275	2.884459257	69.22702	7.430195808	7.404364586	0.030053863	25.8496914	620.3925781	24	20642.68945
	16	497.8373	855.8236694	3.342108	14.98697	1.6008141	1.598723769	0.003950224	3.361943722	80.68665	7.364799976	7.348050117	0.029825276	25.5366707	612.880127	24	20539.76807
	17	504.2144	866.7852173	3.33416	15.00104	1.62816167	1.628377914	0.004023497	3.474570274	83.38969	7.611225128	7.612647057	0.030899279	26.7934837	643.0435791	24	20802.84522
	18	505.0548	868.2304688	3.329326	15.00959	1.39254665	1.393856645	0.003444027	2.989565849	71.74958	7.674820423	7.687610149	0.031203549	27.0932999	650.2391968	24	20837.53125
	19	501.5687	862.2371826	3.316926	15.03152	1.65471208	1.663173318	0.004109473	3.509604216	84.2305	7.692943573	7.734933853	0.031395633	27.0925369	650.2208862	24	20693.69238
	20	497.0689	854.5014038	3.313427	15.03773	1.8717258	1.880874157	0.004647381	3.917731524	94.02556	7.552876949	7.603411198	0.03086178	26.4123993	633.897583	24	20508.03369

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	507.2585	872.0179443	3.333905	15.00149	1.33674252	1.336846709	0.003303167	2.882465839	69.17918	7.699940681	7.701810837	0.03126118	27.2653256	654.3677979	24	20928.43066
	22	503.0939	864.8583374	3.330216	15.00801	1.25200248	1.253149986	0.003096361	2.679908752	64.31781	7.635549068	7.646016121	0.031034708	26.8414326	644.194397	24	20756.6001
	23	499.0165	857.8498535	3.315526	15.034	1.04516506	1.051020861	0.002596929	2.229133844	53.49921	7.767348766	7.812852859	0.031711888	27.2053299	652.9279175	24	20588.39648
	24	493.8134	848.9049683	3.281313	15.09455	0.88935965	0.903274596	0.002231866	1.897484183	45.53962	7.915046215	8.044594765	0.032652523	27.7159824	665.1835938	24	20373.71924
	25	500.7049	860.7542114	3.300455	15.06066	1.01384437	1.024108887	0.002530434	2.180140495	52.32337	7.907096863	7.989573956	0.032429185	27.9105625	669.8535156	24	20658.10107
	26	503.5934	865.7178955	3.290788	15.07779	1.10573816	1.119649529	0.002766497	2.39705205	57.52925	7.828081608	7.933494091	0.032201566	27.8759499	669.0228271	24	20777.22949
	27	492.278	846.2648315	3.288944	15.08104	1.93150377	1.957606316	0.004836976	4.043894291	97.05346	7.579746246	7.685609341	0.031195404	26.4362087	634.4689941	24	20310.35596
	28	489.4834	841.461853	3.292568	15.07464	1.54246807	1.557714462	0.003848898	3.193546295	76.64511	7.630462646	7.730309963	0.031376854	26.435854	634.4605103	24	20195.08447
Mar 03	1	501.8457	862.7142334	3.271838	15.11133	0.97632474	0.995033562	0.002458595	2.122673273	50.94416	7.881180286	8.032956123	0.032605272	28.1300259	675.1206055	24	20705.1416
	2	501.3295	861.8262939	3.256829	15.1379	1.12640643	1.153604269	0.002850397	2.45768404	58.98442	7.688649654	7.872760296	0.031955045	27.5391369	660.93927	24	20683.83105
	3	500.8467	860.9951782	3.255367	15.1405	1.02719986	1.05236125	0.002600242	2.239287376	53.7429	7.874346256	8.066729546	0.03274237	28.1911335	676.5872192	24	20663.88428
	4	493.7121	848.7302856	3.29047	15.07835	1.32338762	1.339875817	0.003310648	2.783369541	66.80087	7.762579441	7.868527889	0.031937886	27.1303463	651.1282959	24	20369.52685
	5	490.0194	842.3828125	3.325256	15.01679	1.64914608	1.652377844	0.004082797	3.406280756	81.75074	7.529667377	7.551667213	0.030651754	25.8398285	620.1558838	24	20217.1875
	6	496.7836	854.0102539	3.310249	15.04334	1.24850583	1.257095575	0.003106113	2.641554117	63.3973	7.556853771	7.613041401	0.030900883	26.3976212	633.5429077	24	20496.24609
	7	497.5112	855.2617188	3.295176	15.07	1.16837645	1.18210113	0.002920807	2.498412609	59.9619	7.602004051	7.693650246	0.031228047	26.7079163	640.9899902	24	20526.28125
	8	145.5085	666.9656982	2.437084	11.94587	1.77808404	1.626535654	0.004018942	3.174093246	28.56684	5.733619213	6.110918999	0.024803834	21.2546215	191.2915955	8.75	5835.949859
	9	102.4286	704.3320923	2.690272	16.14023	13.0151186	110.4760513	0.272971898	24.62042618	147.7225	7.073538303	12.62842178	0.051257934	24.8277378	148.9664307	5.241667	3691.87414
	10	504.9039	867.9707031	3.282457	15.09253	1.47696579	1.500042558	0.003706399	3.219272614	77.26254	7.878797054	8.00398159	0.032487676	28.2013741	676.8330078	24	20831.29687
	11	499.5363	858.7423096	3.288562	15.08173	1.31416583	1.332210422	0.003291707	2.827874899	67.869	7.79453516	7.905025482	0.032086	27.5543118	661.3035278	24	20609.81543
	12	495.3681	851.578186	3.295622	15.06922	1.25009632	1.264302492	0.003123919	2.662540436	63.90097	7.666871071	7.757762909	0.031488281	26.8167419	643.6018066	24	20437.87646
	13	494.5331	850.1422729	3.301854	15.0582	1.18173266	1.192850351	0.002947367	2.508020878	60.1925	7.658919811	7.73511982	0.031396385	26.6935177	640.6444092	24	20403.41455
	14	497.3766	855.0302124	3.287798	15.08307	1.20240045	1.219689965	0.003013689	2.577413797	61.85793	7.751769066	7.862401962	0.031913009	27.2851658	654.8439941	24	20520.7251
	15	495.2808	851.4267578	3.262108	15.12857	1.10335338	1.127999663	0.002787134	2.374564886	56.98956	7.859243393	8.034615517	0.032612018	27.7693462	666.4642944	24	20434.24219
	16	501.5466	862.1995239	3.26179	15.12912	1.16853762	1.193780065	0.002949666	2.546810865	61.12346	8.139532089	8.32220459	0.033779331	29.122467	698.939209	24	20692.78857
	17	507.0627	871.6828003	3.25187	15.14667	1.34151125	1.374852061	0.00339707	2.962806702	71.10736	7.934601784	8.136559486	0.033025783	28.7889156	690.934021	24	20920.38721
	18	509.0087	875.0264893	3.2457	15.15763	1.4413538	1.48060286	0.00365837	3.202598333	76.86236	7.867667675	8.083734512	0.032811385	28.7107716	689.0584717	24	21000.63574
	19	507.5746	872.5612793	3.251741	15.14693	1.46138501	1.498567939	0.003702755	3.232199192	77.57278	7.824743748	8.024553299	0.03257117	28.4203129	682.0875244	24	20941.4707
	20	507.3955	872.2542725	3.24888	15.15199	1.54866755	1.589164615	0.003926611	3.427401543	82.25764	7.68737936	7.890295029	0.03202622	27.9357452	670.4578857	24	20934.10254
	21	496.3464	853.2593384	3.287418	15.08374	2.01560617	2.04282546	0.005047542	4.267856121	102.4286	7.504704475	7.613345623	0.030902095	26.3807125	633.137085	24	20478.22412
	22	497.3018	854.9026489	3.257338	15.13702	1.40001667	1.433099985	0.003540996	3.029090881	72.69818	7.546201229	7.72604084	0.031359535	26.8104839	643.4515991	24	20517.66357
	23	498.676	857.2639771	3.281758	15.09376	1.48348498	1.50678587	0.003723063	3.195785284	76.69885	7.513291836	7.634640694	0.030988546	26.5659885	637.5836792	24	20574.33545
	24	499.192	858.1520996	3.284875	15.08823	1.44866872	1.470619202	0.003633699	3.119117022	74.85881	7.547367573	7.66201973	0.031099662	26.6879158	640.5100098	24	20595.65039
	25	499.9838	859.512207	3.288944	15.08104	1.59016252	1.61164999	0.003982166	3.424966574	82.1992	7.499936104	7.604584217	0.03086653	26.5297413	636.7138062	24	20628.29297
	26	498.1892	856.4282837	3.273809	15.10784	1.58968628	1.618433714	0.003998926	3.426389933	82.23336	7.413448334	7.551814556	0.030652359	26.2538376	630.0921021	24	20554.27881
	27	493.0304	847.5588989	3.272918	15.10941	1.90082002	1.935884118	0.004783308	4.00363493	96.08724	7.760671616	7.907551765	0.032096259	27.2223587	653.3366089	24	20341.41357
	28	500.0186	859.5735474	3.289137	15.0807	1.24023879	1.257314563	0.003106654	2.67006135	64.08147	7.881817341	7.991514683	0.032437075	27.8832169	669.1972046	24	20629.76514
	29	500.6759	860.7023926	3.296512	15.06764	1.30542254	1.320188284	0.003262003	2.811851978	67.48445	7.787858963	7.8781147	0.031976774	27.5264702	660.6353149	24	20656.85742
	30	497.1868	854.7044678	3.281568	15.0941	1.22561157	1.244511604	0.003075019	2.633930922	63.21434	7.642864227	7.767013073	0.031525835	26.9442997	646.663208	24	20512.90723
	31	492.4625	846.5813599	3.262426	15.12801	1.05947352	1.083028316	0.002676012	2.268143654	54.43545	7.599937916	7.768631458	0.031532388	26.6948967	640.6774902	24	20317.95264
Apr 03	1	497.4864	855.2191162	3.286082	15.08612	1.34103549	1.360297203	0.003361108	2.863503695	68.72409	7.705028057	7.819892406	0.031740464	27.1576958	651.784729	24	20525.25879
	2	487.9649	838.8502808	3.295557	15.06933	2.15249324	2.174777746	0.005373578	4.475996017	107.4239	7.513608932	7.604342937	0.030865571	25.9137955	621.9310913	24	20132.40674
	3	478.5963	822.7455444	3.297212	15.06643	2.49128747	2.510354757	0.006202742	5.055931091	121.3424	7.575771809	7.665498257	0.031113779	25.6292801	615.1027222	24	19745.89307
	4	482.7119	829.8202515	3.298038	15.06494	2.23230171	2.253335476	0.005567681	4.556735992	109.3617	7.610908508	7.697318554	0.031242933	25.9523335	622.8560181	24	19915.68604
	5	513.3679	882.5214844	3.294478	15.07124	1.51464546	1.532499194	0.003786597	3.341257811	80.19019	7.855905056	7.952409744	0.032278359	28.4859009	683.6616211	24	21180.51563
	6	466	835.921936	3.287611	15.08341	2.49326468	2.524014711	0.006236491	5.155009747	118.5652	7.398504734	7.505001545	0.030462347	25.495266	586.3911133	24	20062.12646
	7	491.3929	844.7442017	3.297784	15.0654	1.8936646	1.916412473	0.004735194	3.974531651	95.38876	7.357644081	7.439871311	0.030197987	25.5185871	612.446106	24	20273.86084
	8	497.2988	854.8980713	3.29206	15.07553	1.36472249	1.381365418	0.003413165	2.923307419	70.15938	7.494849205	7.592720509	0.030818384	26.3430786	632.2338867	24	20517.55371
	9	495.7639	852.2580566	3.293968	15.07215	1.25105012	1.266253114	0.00312874	2.672019958	64.12848	7.55605793	7.650597572	0.031053308	26.4654675	635.1712036	24	20454.19336
	10	497.1458	854.6334839	3.315845	15.03344	1.30542171	1.312764525	0.003243659	2.773293257	66.55904	7.422035217	7.464497566	0.030297929	25.8929749	621.4313965	24	20511.20361
	11	497.7121	855.6064453	3.311455	15.0412	1.32291079	1.332287908	0.0032919	2.817992449	67.63182	7.345402718	7.397332191	0.030025346	25.6893711	616.5449219	24	20534.55469
	12	498.3358	856.6784668	3.198323	15.24136	1.05216062	1.073539376	0.002652567	2.278470039	54.68328	7.4489007	7.777049065	0.031566568	27.0369453	648.8867188	24	20560.2832
	13	497.3182	854.9312744	3.320487	15.02522	1.05931521	1.064332962	0.002629817	2.250094175	54.00226	7.525533199	7.559515476	0.030683605	26.2353535	629.6484985	24	20518.35059
	14	485.8821	835.2703857	3.312028	15.04019	1.57935214	1.588772655	0.00392564	3.241154671	77.78771	7.528235912	7.581220627	0.030771721	25.7290382	617.4968872	24	20046.48926

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	488.223	839.2940063	3.2981	15.06483	1.74501407	1.763532162	0.004357445	3.620248795	86.88597	7.526010513	7.610460758	0.030890405	25.9495297	622.7886963	24	20143.05615
	16	501.6423	862.3648071	3.273808	15.10785	1.30144703	1.32521379	0.003274422	2.818089485	67.63415	7.771639824	7.916796684	0.032133784	27.7166004	665.1984253	24	20696.75537
	17	503.204	865.0473633	3.293077	15.07372	1.31146288	1.327866673	0.003280975	2.838581324	68.12595	7.555580616	7.651402473	0.031056579	26.8660297	644.784729	24	20761.13672
	18	500.772	860.8677368	3.277052	15.10212	1.54326332	1.570240855	0.003879848	3.329288721	79.90293	7.546520233	7.680294514	0.031173849	26.8425617	644.2214966	24	20660.82568
	19	499.2503	858.2512817	3.279469	15.09782	1.25136828	1.272079587	0.003143132	2.699375868	64.78502	7.623149872	7.752020359	0.031464983	27.0036297	648.0870972	24	20598.03076
	20	495.777	852.2816162	3.2857	15.08677	1.11909163	1.135620117	0.002805962	2.394434214	57.46642	7.63078022	7.74495697	0.031436302	26.7906551	642.975708	24	20454.75879
	21	496.8383	854.1046143	3.277243	15.10175	1.27314937	1.295654655	0.003201387	2.718486786	65.24368	7.612020969	7.745768547	0.031439599	26.8625202	644.7005005	24	20498.51074
	22	485.3759	834.4013062	3.262426	15.128	2.24995208	2.303781748	0.005692329	4.693768501	112.6504	7.450172424	7.614383221	0.030906316	25.8189869	619.6557007	24	20025.63135
	23	501.5412	862.1900024	3.280296	15.09634	1.35407043	1.37616837	0.003400323	2.933565378	70.40557	7.569729805	7.695567131	0.031235829	26.9302158	646.3251953	24	20692.56006
	24	501.8846	862.7805176	3.297403	15.06606	1.40192497	1.417899132	0.00350343	3.024862528	72.5967	7.492782116	7.577920914	0.030758305	26.5384121	636.921875	24	20706.73242
	25	502.3627	863.602356	3.284174	15.08949	1.28141618	1.300628185	0.003213675	2.777208805	66.65301	7.610272408	7.728289127	0.031368658	27.0879593	650.1110229	24	20726.45654
	26	506.0161	869.8833618	3.283412	15.09083	1.41671121	1.438402534	0.003554094	3.093453646	74.24289	7.650176048	7.770296097	0.031539142	27.4328003	658.387207	24	20877.20068
	27	502.6927	864.1688232	3.283029	15.09149	1.38682163	1.408862114	0.003481107	3.011066675	72.2656	7.711227894	7.832817554	0.031792924	27.4738541	659.3724976	24	20740.05176
	28	499.8553	859.2903442	3.261931	15.12887	1.34127474	1.370079517	0.003385279	2.913042545	66.99998	7.5813241	7.751151562	0.031461462	27.0816956	622.8790283	24	20622.96826
	29	497.3434	854.9736938	3.26516	15.12315	1.64167416	1.675444961	0.004139793	3.509725332	84.23341	7.611543655	7.774570942	0.031556513	26.9990921	647.9782104	24	20519.36865
	30	497.4392	855.1389771	3.275589	15.10468	1.5574137	1.584192395	0.003914322	3.329212904	79.90111	7.516311169	7.652751923	0.031062054	26.5744743	637.7874146	24	20523.33545
May 03	1	498.4587	856.8911133	3.286909	15.08463	1.27394378	1.292394161	0.003193328	2.733306646	65.59936	7.5981884	7.709095955	0.031290736	26.8151341	643.5632324	24	20565.38672
	2	462.9779	795.8967285	3.064078	14.17262	2.14152169	4.974232197	0.012290628	3.81960535	91.67053	7.220442295	7.718318939	0.031328186	25.2326164	605.5828247	24	19101.52148
	3															0	0
	4	475.6873	817.7444458	3.127352	14.49835	1.90622604	2.795660973	0.006907695	3.992246628	95.81392	7.612975597	8.118452072	0.032952286	26.8369122	644.0858765	23.03889	18839.92346
	5	493.3983	848.1917725	3.30853	15.04638	1.36578202	1.375914931	0.003399699	2.864976645	68.75944	7.876253128	7.939378738	0.032225445	27.3440094	656.2562256	24	20356.60254
	6	497.9925	856.0882568	3.310247	15.04334	1.09890127	1.106953263	0.002735129	2.342541695	56.221	8.088656425	8.148853302	0.03307569	28.3150501	679.5612183	24	20546.11816
	7	499.684	858.9974365	3.31807	15.0295	1.08920169	1.094471693	0.002704287	2.323837519	55.7721	8.087703705	8.128534317	0.032993227	28.3420868	680.210083	24	20615.93848
	8	481.8269	828.2995605	3.332569	15.00385	1.48793554	1.488129497	0.003676962	2.994585037	71.87004	8.016953468	8.022172928	0.032561492	27.0165958	648.3983154	24	19879.18945
	9	480.2555	825.5981445	3.316608	15.03211	1.65105355	1.651407242	0.004080402	3.303954601	79.29491	7.942550659	7.990702629	0.032433767	26.8298531	643.9165039	24	19814.35547
	10	499.8326	859.2523804	3.284047	15.08972	1.21845794	1.236792922	0.003055947	2.627378225	63.05708	7.975778103	8.099762917	0.032876447	28.2494717	677.9873047	24	20622.05713
	11	495.4748	851.7620239	3.301981	15.05796	1.14373374	1.154976249	0.002853786	2.43324542	58.39789	7.852246761	7.930401325	0.032189008	27.4188042	658.0513306	24	20442.28857
	12	488.4257	839.6434937	3.313491	15.0376	0.98077613	0.986707091	0.002438017	2.049570799	49.1897	7.846205235	7.896901608	0.032053057	26.9133663	645.9207764	24	20151.44385
	13	486.2719	835.9408569	3.319088	15.0277	0.95979053	0.964472353	0.002383077	1.993466258	47.84319	7.792786121	7.829765797	0.031780537	26.5658627	637.5806885	24	20062.58057
	14	491.1926	844.399353	3.310311	15.04323	0.92306447	0.929731667	0.002297239	1.940672159	46.57613	7.879751682	7.938951492	0.03222372	27.2108994	653.0615845	24	20265.58447
	15	489.3024	841.1502075	3.32939	15.00947	1.05295563	1.054172158	0.002604716	2.189485312	52.54765	7.575452805	7.588062286	0.030799491	25.9102459	621.8458862	24	20187.60498
	16	490.0795	842.4866943	3.317561	15.0304	1.05867779	1.063981175	0.002628949	2.216296673	53.19112	7.651290417	7.691297054	0.031218508	26.3016911	631.2406006	24	20219.68066
	17	486.8707	836.97052	3.284747	15.08847	0.96964628	0.984144688	0.002431685	2.03599453	48.86387	7.632530689	7.749155998	0.031453338	26.3255367	631.8129272	24	20087.29248
	18	492.9366	847.3983765	3.280422	15.09612	1.05772352	1.075077653	0.002656372	2.251895905	54.0455	7.811706066	7.941156864	0.032232683	27.3142242	655.5413818	24	20337.56104
	19	490.4371	843.100708	3.28958	15.0799	1.03848743	1.052601099	0.002600832	2.196035862	52.70486	7.708683968	7.81480217	0.031719811	26.7488785	641.9730835	24	20234.41699
	20	484.6127	833.0884399	3.285065	15.0879	0.92719775	0.940927684	0.002324904	1.939050436	46.53721	7.529507637	7.643686771	0.031025259	25.845459	620.2910156	24	19994.12256
	21	480.6129	826.2121582	3.286591	15.0852	0.8337149	0.845455945	0.002089006	1.728417873	41.48203	7.555580139	7.666738987	0.031118818	25.7093163	617.0236206	24	19829.0918
	22	476.7169	819.5153198	3.283729	15.09028	0.78681457	0.798756957	0.001973621	1.619250774	38.86202	7.49023819	7.607152462	0.030876972	25.3029881	607.2717285	24	19668.36768
	23	474.5602	815.8078613	3.28996	15.07924	0.73132896	0.74107796	0.001831102	1.494729996	35.87352	7.575455666	7.679330349	0.031169938	25.4264832	610.2355957	24	19579.38867
	24	478.7257	822.9676514	3.29594	15.06865	0.7159074	0.724408388	0.001789914	1.474263787	35.38233	7.695646763	7.78653574	0.031605083	26.0100632	624.2415161	24	19751.22363
	25	485.0055	833.7637329	3.322965	15.02084	0.79460472	0.797458053	0.00197041	1.644272923	39.46255	7.745091438	7.772600174	0.031548511	26.3014908	631.2357788	24	20010.32959
	26	482.3523	829.2015991	3.339374	14.99181	0.88252306	0.8810094	0.002176853	1.806380391	43.35313	7.446199417	7.436210632	0.030183125	25.0263538	600.6325073	24	19900.83838
	27	479.3268	824.0018311	3.326697	15.01424	0.86402845	0.86557281	0.002138712	1.765860438	42.38065	7.44556284	7.463668346	0.030294567	24.9679661	599.2312012	24	19776.04395
	28	468.9646	806.1876831	3.286718	15.085	0.69667023	0.70560658	0.001743457	1.407769203	33.78646	7.236975193	7.343545914	0.02980702	24.0295754	576.7097778	24	19348.50439
	29	471.2004	810.0318604	3.282205	15.09298	0.64643127	0.656139195	0.001621229	1.314304948	31.54332	7.59500885	7.717414379	0.03132451	25.377409	609.0578003	24	19440.76465
	30	480.8353	826.5947266	3.329199	15.00981	0.81654459	0.817636013	0.002020267	1.671937466	40.1265	7.607568264	7.62063694	0.030931691	25.5704384	613.6904907	24	19838.27344
	31	476.5359	819.2035522	3.325256	15.01679	0.78888148	0.790767491	0.001953876	1.60299921	38.47198	7.478952885	7.500844479	0.030445471	24.938942	598.5346069	24	19660.88525
Jun 03	1	473.0031	813.1300049	3.323858	15.01926	0.74468362	0.746531367	0.001844574	1.502300024	36.0552	7.531257153	7.556394577	0.030670937	24.937458	598.4990234	24	19515.12012
	2	469.9197	807.8311768	3.305352	15.052	0.71495348	0.720862329	0.001781151	1.440671206	34.57611	7.44572258	7.512169361	0.030491428	24.6313953	591.1535034	24	19387.94824
	3	468.0961	804.6952515	3.298865	15.06349	0.65930915	0.665882111	0.001645303	1.325444698	31.81067	7.390396595	7.471386433	0.030325908	24.4016781	585.6403198	24	19312.68604
	4	473.2331	813.5267334	3.315527	15.034	0.70748115	0.711431682	0.001757852	1.430853367	34.34048	7.387851715	7.430802345	0.030161167	24.5368824	588.8851929	24	19524.6416
	5	470.8979	809.5125122	3.333651	15.00194	0.74563748	0.74569875	0.001842519	1.492472887	35.81935	7.241586208	7.244318008	0.029404238	23.8040123	571.2963257	24	19428.30029
	6	475.061	816.6674805	3.34389	14.98382	0.7888813	0.786731482	0.001943905	1.588529587	38.12471	7.270363331	7.250783443	0.029430479	24.037508	576.9002075	24	19600.01953

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	7	473.3325	813.6968384	3.344653	14.98248	0.78824526	0.785786271	0.001941568	1.58108747	37.9461	7.18975687	7.168622017	0.02909698	23.6772633	568.2543335	24	19528.72412
	8	470.6508	809.0874023	3.336259	14.99732	0.7691673	0.768523335	0.001898915	1.538019538	36.91247	7.140789509	7.13781023	0.028971937	23.4406834	562.576416	24	19418.09766
	9	474.3293	815.4110718	3.316798	15.03175	0.78347588	0.786997199	0.001944561	1.586460829	38.07506	7.314241886	7.355744839	0.029856505	24.3510494	584.4251709	24	19569.86572
	10	486.8075	836.8618774	3.288031	15.08265	0.92182148	0.934598744	0.002309268	1.932951331	42.52493	7.341269016	7.445281029	0.030219931	25.2793236	556.1450806	24	20084.68506
	11	488.7531	840.2056885	3.294477	15.07126	0.96726143	0.979307294	0.002419732	2.03531456	48.84755	7.341905117	7.432073593	0.030166341	25.3483582	608.3605957	24	20164.93652
	12	485.9944	835.4639893	3.06236	15.48194	0.70255286	0.729425848	0.001802312	1.512749195	36.30598	6.884984016	7.49148941	0.030407492	25.4086952	609.8087158	24	20051.13574
	13	485.3572	834.3682861	3.31063	15.04266	0.99142754	0.998494923	0.002467143	2.060197592	49.44474	7.338089466	7.391802788	0.030002879	25.0340042	600.8161011	24	20024.83887
	14	223.7911	659.4552002	2.664945	13.5739	9.98195076	36.62093735	0.090484917	11.39781761	159.5694	7.560396194	8.475148201	0.034400102	24.8030701	347.242981	12.84722	8472.167574
	15	488.1541	839.1760864	3.295558	15.06933	1.19683552	1.210474968	0.002990917	2.512063265	60.28952	7.749066353	7.84175396	0.031829201	26.7091293	641.019104	24	20140.22607
	16	483.4917	831.161499	3.28443	15.08902	1.13499093	1.151886702	0.002846157	2.369610786	56.87066	7.638836861	7.755981922	0.031481057	26.1688385	628.052124	24	19947.87598
	17	477.7448	821.2815552	3.293078	15.07371	1.0923835	1.105478287	0.002731485	2.246838808	53.92413	7.417741299	7.511965752	0.030490616	25.0411034	600.9865112	24	19710.75732
	18	480.1675	825.4470215	3.297785	15.06539	1.03387702	1.04451859	0.00258086	2.131205559	51.14893	7.56480217	7.651125431	0.03105545	25.6356831	615.2564087	24	19810.72852
	19	487.0273	837.2396851	3.301028	15.05966	1.00255632	1.012898088	0.002502731	2.096778631	50.32269	7.896921158	7.977637291	0.032380745	27.1096878	650.6325073	24	20093.75244
	20	491.8959	845.6083984	3.307705	15.04784	1.12815499	1.137248635	0.002809983	2.378480911	57.08354	7.897875309	7.962700844	0.032320127	27.332859	655.9885864	24	20294.60156
	21	492.0107	845.8068237	3.289708	15.0797	1.16599286	1.181984782	0.002920523	2.472261667	59.33428	7.865599155	7.973224163	0.032362826	27.3734741	656.9633789	24	20299.36377
	22	490.4914	843.1950684	3.301791	15.0583	1.18364036	1.195142865	0.002953034	2.491532803	59.79679	7.840322018	7.919448853	0.032144561	27.1048546	650.5164795	24	20236.68164
	23	491.5411	844.9992065	3.28621	15.08587	1.05820096	1.07344234	0.002652327	2.244395018	53.86548	8.06878376	8.188140869	0.033235159	28.0823288	673.9758911	24	20279.98096
	24	491.7747	845.4006958	3.305035	15.05257	0.99015594	0.998763025	0.002467807	2.087607622	50.10258	7.910117626	7.983767033	0.032405615	27.4103165	657.8475952	24	20289.6167
	25	483.055	830.4106445	3.301918	15.05808	1.00192058	1.010772228	0.002497477	2.07665205	49.83965	7.476724148	7.551485062	0.030651012	25.4523335	610.8560181	24	19929.85547
	26	475.5992	817.5931396	3.227769	15.18929	0.90986878	0.930991769	0.002300353	1.891139388	45.38734	7.282763958	7.522422314	0.030533049	24.9695034	599.2680664	24	19622.23535
	27	469.9037	807.8028564	3.219055	15.2047	1.01193655	1.033887386	0.002554593	2.003076315	48.07383	7.281651497	7.549731255	0.030643892	24.7918758	595.0050049	24	19387.26855
	28	475.6431	817.6686401	3.287227	15.08408	0.78554261	0.796486437	0.001968008	1.611512899	38.67631	7.512496948	7.621270657	0.030934274	25.2946625	607.0718994	24	19624.04736
	29	479.8159	824.8423462	3.296386	15.06787	0.84341264	0.852484822	0.002106372	1.738620877	41.7269	7.604389191	7.694320679	0.031230776	25.7577591	618.1862183	24	19796.21631
	30	484.2032	832.3846436	3.298675	15.06382	0.9068476	0.91547817	0.002262018	1.886078715	45.26589	7.665121078	7.750918865	0.031460509	26.1821137	628.3707275	24	19977.23145
Jul 03	1	486.5418	836.4037476	3.291425	15.07665	1.22020686	1.234660387	0.003050675	2.554275513	61.30261	7.659874439	7.762451172	0.031507324	26.3524666	632.4591675	24	20073.68994
	2	483.2061	830.6703491	3.303636	15.05504	1.21718621	1.227643013	0.003033337	2.528649092	60.68758	7.56750536	7.639294624	0.03100743	25.7521591	618.0518188	24	19936.08838
	3	483.2035	830.6656494	3.30567	15.05144	1.16456175	1.174060345	0.002900941	2.414002895	57.93607	7.506454468	7.572455406	0.030736126	25.5317783	612.7626953	24	19935.97559
	4	481.5299	827.7895508	3.310949	15.0421	0.91320694	0.919328749	0.002271535	1.8832196	45.19727	7.518856049	7.573272228	0.030739438	25.4439907	610.6558228	24	19866.94922
	5	480.5055	826.0278931	3.295496	15.06944	0.82004237	0.829547405	0.002049698	1.695082545	40.68198	7.596918106	7.687993526	0.031205099	25.7749176	618.5980225	24	19824.66943
	6	480.3871	825.8248901	3.299819	15.0618	0.77441365	0.782324553	0.001933016	1.597849607	38.34839	7.616312504	7.697246075	0.031242657	25.7999382	619.1984863	24	19819.79736
	7	481.5462	827.817749	3.305352	15.052	1.10017192	1.109386563	0.002741141	2.271337509	54.5121	7.260665417	7.326206207	0.029736638	24.6149178	590.7579956	24	19867.62598
	8	486.7194	836.7108154	3.29098	15.07743	1.31178129	1.328646183	0.003282903	2.752534628	66.06083	7.454942703	7.554206371	0.030662067	25.6532364	615.6776733	24	20081.05957
	9	480.9674	826.821228	3.297848	15.06528	1.26440418	1.278312445	0.003158531	2.615530729	62.77274	7.225211143	7.306856155	0.029658088	24.528141	588.675415	24	19843.70947
	10	477.5927	821.0217896	3.29734	15.06619	1.2677418	1.28052783	0.003164008	2.601736784	62.44168	7.092459679	7.174007893	0.029118858	23.9045296	573.7086792	24	19704.52295
	11	476.3077	818.8116455	3.299184	15.06291	1.04611874	1.057159781	0.002612096	2.145519257	51.49246	7.165591717	7.242948055	0.029398674	24.0722046	577.7329102	24	19651.47949
	12	474.8571	816.3179321	3.291934	15.07575	0.92783445	0.939439952	0.002321227	1.896766305	45.52239	7.145718575	7.239175797	0.02938338	23.9839535	575.6149292	24	19591.63037
	13	476.4533	819.0617676	3.308468	15.04649	0.98888403	0.996098161	0.002461221	2.017888308	48.42932	7.131411076	7.188521385	0.029177766	23.8970127	573.5283203	24	19657.48242
	14	473.7364	814.3910522	3.30319	15.05583	0.93339825	0.942208767	0.002328067	1.899742961	45.59383	7.181489944	7.250263691	0.029428367	23.9672051	575.2128906	24	19545.38525
	15	469.2168	806.6220703	3.311203	15.04165	0.79174304	0.797222614	0.001969828	1.590822101	38.17973	7.11789608	7.168889046	0.029098084	23.470705	563.296875	24	19358.92969
	16	470.9729	809.6400146	3.329263	15.0097	0.84023327	0.841359437	0.002078882	1.684743285	40.43384	7.186259747	7.198252201	0.029217258	23.6550369	567.7208862	24	19431.36035
	17	470.9286	809.5645142	3.351585	14.97021	0.79333276	0.792157352	0.001957312	1.581898332	37.96556	7.472272396	7.427231312	0.030146671	24.4214916	586.1157837	24	19429.54834
	18	471.3104	810.2208252	3.338294	14.99372	0.79412806	0.795169055	0.001964754	1.587586045	38.10207	7.387056828	7.371816635	0.029921742	24.270462	582.4910889	24	19445.2998
	19	471.4201	810.4098511	3.305671	15.05145	0.86121923	0.868451774	0.002145825	1.739879966	41.75712	7.199296474	7.263642311	0.029482679	23.8930378	573.4329224	24	19449.83643
	20	470.3517	808.5725708	3.308596	15.04628	0.81145698	0.817210138	0.002019214	1.634995818	39.2399	7.143333435	7.199884415	0.029223887	23.6323586	567.1765747	24	19405.7417
	21	470.1672	808.2563477	3.306971	15.04914	0.75919467	0.766551495	0.001894043	1.529776454	33.65508	7.251370907	7.309361935	0.029668255	23.9916554	527.8164063	24	19398.15234
	22	430.9507	740.7631836	3.060707	14.17905	0.84373105	1.150182486	0.002841941	1.595783591	38.29881	6.890233994	7.15474081	0.029040663	22.4867153	539.6811523	24	17778.31641
	23	468.8824	806.0459595	3.329073	15.01004	0.7521559	0.753905237	0.001862795	1.499941587	35.9986	7.188486099	7.197683811	0.029214963	23.5619125	565.4859009	24	19345.10303
	24	470.1672	808.2561035	3.337722	14.99474	0.66980195	0.671070635	0.001658123	1.339305758	32.14334	7.357327461	7.34390974	0.029808478	24.1035576	578.4854126	24	19398.14648
	25	473.5692	814.1029053	3.350949	14.97134	0.58617598	0.585366488	0.00144636	1.176044345	28.22507	7.655900955	7.610261917	0.030889601	25.1602993	603.847168	24	19538.46973
	26	205.0139	650.5973511	2.707454	12.49461	3.78979993	5.058949471	0.012500006	6.994190693	90.92448	6.252641678	6.763312817	0.027451871	20.3156548	264.1035156	12.74167	8289.694662
	27	472.8296	812.8326416	3.34478	14.98225	0.8858617	0.882197082	0.002179787	1.772670865	42.5441	7.152555466	7.132528782	0.028950505	23.5307865	564.7388916	24	19507.9834
	28	472.2806	811.8879395	3.329751	15.00884	0.83228397	0.833171666	0.002058652	1.672308326	40.1354	7.150913239	7.16189146	0.029069679	23.600729	566.4174805	24	19485.31055
	29	471.8686	811.1795654	3.339375	14.99181	0.89905745	0.898477554	0.002220015	1.800248265	43.20596	7.226323128	7.214160442	0.029281834	23.7593994	570.2255859	24	19468.30957

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	475.7666	817.8811035	3.368692	14.93995	1.07839203	1.069728732	0.002643149	2.158058882	51.79342	7.199932098	7.1224823	0.028909709	23.6598492	567.8364258	24	19629.14648
	31	477.1346	820.2330322	3.357308	14.96009	1.11273289	1.106221914	0.002733323	2.24030304	53.76727	7.150327682	7.100395679	0.028820058	23.6489296	567.5742798	24	19685.59277
Aug 03	1	477.4752	820.8187256	3.375114	14.92859	1.18300319	1.17098248	0.002893337	2.372563601	56.94153	7.116466045	7.02682209	0.028521447	23.4219551	562.1268921	24	19699.64941
	2	478.2003	822.0655518	3.339057	14.99238	1.1734637	1.172183752	0.002896303	2.382737398	57.1857	7.021391869	7.013200283	0.028466154	23.4036408	561.6873779	23.99167	19722.7228
	3	477.5717	820.9840698	3.359408	14.95638	1.13689792	1.128359199	0.00278802	2.28994751	54.95874	7.032521248	6.981154442	0.028336074	23.2634087	558.3217773	23.99722	19701.33772
	4	472.1923	811.7368774	3.311839	15.04054	1.23149395	1.74153924	0.004303101	2.403941631	57.6946	7.680066586	8.157151222	0.033109371	25.2629414	606.3106079	24	19481.68506
	5	390.3657	700.246582	2.838496	12.92567	1.38921881	3.741481304	0.009244686	2.849562168	65.53993	6.365962029	6.806291103	0.027626326	21.2558079	488.883606	21.76944	15243.97841
	6	481.0577	826.9771729	3.35966	14.95592	0.95629251	0.949128091	0.002345164	1.941159606	46.58783	7.223938942	7.170513153	0.02910468	24.068737	577.6497192	24	19847.45215
	7	480.6598	826.2922363	3.356609	14.96132	0.95279455	0.946422815	0.002338479	1.934455395	46.42693	7.25827837	7.211188316	0.02926977	24.1850128	580.4403076	24	19831.01367
	8	480.3105	825.6925049	3.351331	14.97066	1.21607244	1.209730387	0.002989079	2.468029261	59.2327	7.301682949	7.265734196	0.029491162	24.3512173	584.4291992	24	19816.62012
	9	151.1356	623.4522095	2.635226	12.58202	10.672822	23.41352844	0.057851683	11.79847908	117.9848	6.809494019	7.305756092	0.029653626	21.2533379	212.5333862	9.358333	5834.473158
	10	476.5716	819.2648926	3.35292	14.96785	1.39540756	1.387503386	0.003428331	2.810369968	67.44888	7.259551048	7.220417023	0.029307226	24.0111084	576.2666016	24	19662.35742
	11	481.599	827.9074707	3.328882	15.01038	1.74628663	1.74906373	0.004321694	3.579986572	85.91968	7.281809807	7.295568943	0.029612275	24.5163879	588.3933105	24	19869.7793
	12	479.9093	825.0031738	3.337403	14.9953	1.29524732	1.297317624	0.003205493	2.647605419	63.54253	7.602958202	7.593967438	0.030823441	25.4322338	610.3735962	24	19800.07617
	13	479.0271	823.4869995	3.350758	14.97167	1.27139914	1.26506412	0.003125798	2.575778008	61.81867	7.423624039	7.388398647	0.029989051	24.6947422	592.6738281	24	19763.68799
	14	476.764	819.59552	3.346052	14.98	1.3133713	1.308698773	0.003233612	2.652206659	63.65296	7.363209724	7.338594913	0.0297869	24.4125252	585.9006348	24	19670.29248
	15	479.0247	823.4822998	3.345862	14.98034	1.29556537	1.290812135	0.003189417	2.62727952	63.05471	7.439681053	7.415712357	0.030099921	24.7864456	594.8746948	24	19763.5752
	16	476.6126	819.3356934	3.317054	15.0313	1.14802682	1.154460788	0.002852514	2.339324236	56.14378	7.462416172	7.502706051	0.030453037	24.9523544	598.8565063	24	19664.05664
	17	475.5438	817.4986572	3.331172	15.00632	1.06265307	1.063498259	0.002627759	2.150182486	51.60438	7.511859894	7.520363331	0.030524701	24.9516411	598.8394165	24	19619.96777
	18	473.9015	814.6745605	3.328062	15.01183	1.03802478	1.040046453	0.002569811	2.093622208	46.05969	7.591193676	7.606259346	0.030873345	25.134882	552.9674072	24	19552.18945
	19	472.7286	812.6578369	3.322522	15.02162	1.06010914	1.063963294	0.002628906	2.137381315	51.29715	7.434275627	7.46171236	0.030286629	24.613245	590.7178955	24	19503.78809
	20	475.1233	816.776123	3.355337	14.96358	0.86217409	0.862577856	0.002131312	1.742191911	41.81261	8.007257462	7.94854641	0.032262668	26.3542633	632.5023193	24	19602.62695
	21	475.1156	816.7619019	3.365258	14.94602	0.8457973	0.841919005	0.002080266	1.696311235	40.71147	7.964807987	7.88525486	0.032005757	26.1516991	627.6408081	24	19602.28565
	22	473.2722	813.5929565	3.32621	15.0151	1.21098518	1.213981986	0.002999583	2.441604137	58.5985	7.078309536	7.0969944	0.028806278	23.4388332	562.5319824	24	19526.23096
	23	474.1734	815.1420288	3.318707	15.02837	1.32688463	1.333390832	0.003294625	2.687322855	64.49575	6.991981506	7.026037216	0.028518271	23.2491589	557.9797974	24	19563.40869
	24	470.176	808.2703857	3.330981	15.00666	1.42148089	1.42303288	0.003516117	2.843789577	68.25095	6.891820908	6.899852753	0.028006092	22.6365871	543.2780762	24	19398.48926
	25	469.7805	807.5903931	3.353831	14.96624	1.21813941	1.215535045	0.003003419	2.419703722	58.07289	7.337878227	7.288237572	0.029582504	23.9116211	573.8789063	24	19382.16943
	26	471.4587	810.4758911	3.36354	14.94906	1.19301951	1.18929553	0.002938585	2.372244596	56.93387	7.655105591	7.578808784	0.030761916	24.9589882	599.015686	24	19451.42139
	27	471.9368	811.2976685	3.330345	15.00779	1.93992877	1.942324638	0.004799213	3.894891739	93.4774	6.988165855	6.997514725	0.028402487	23.0428124	553.0275269	24	19471.14404
	28	476.6323	819.3687134	3.322396	15.02185	1.89048505	1.896994591	0.004687212	3.843656301	92.24775	7.197865486	7.225038528	0.029325979	24.026741	576.6417847	24	19664.84912
	29	479.5137	824.322937	3.321505	15.02343	1.94756079	1.953746676	0.004827436	3.983185768	95.59646	7.200568676	7.2296381	0.029344654	24.1888886	580.5333252	24	19783.75049
	30	476.2058	818.6369019	3.318007	15.02961	1.85932422	1.86867547	0.004617242	3.783566713	90.8056	7.118691444	7.15479517	0.029040879	23.7776871	570.6644897	24	19647.28565
	31	472.2527	811.8408203	3.320806	15.02466	1.81305909	1.82094121	0.004499295	3.654852867	87.71647	7.028707027	7.058202267	0.028648809	23.2569962	558.1679077	24	19484.17969
Sep 03	01	470.0905	808.1240234	3.323539	15.01982	1.73038793	1.736122966	0.004289723	3.468848467	83.25236	7.091506004	7.115624428	0.028881876	23.3386784	560.1282959	24	19394.97656
	02	469.305	806.7733154	3.304475	15.05357	1.36807692	1.381771445	0.003414167	2.74852252	60.46749	7.419836044	7.484456539	0.030378954	24.5105324	539.2316895	24	19362.55957
	03	467.4096	803.5144653	3.33346	15.00228	1.43165565	1.44043684	0.003559121	2.853266478	68.47839	7.191982269	7.185222149	0.029164376	23.4507751	562.8186035	24	19284.34717
	04	469.3766	806.8959961	3.348087	14.9764	1.39810956	1.398069143	0.003454435	2.785938978	66.86253	7.208835125	7.173830509	0.029118134	23.5037422	564.0897827	24	19365.50391
	05	474.0933	815.0050049	3.345225	14.98146	1.5316571	1.532878876	0.003787531	3.081969261	73.96726	7.175130844	7.145837307	0.029004529	23.660387	567.8493042	24	19560.12012
	06	472.5108	812.284729	3.313938	15.03681	1.80606329	1.817154527	0.004489935	3.649125099	87.579	6.765427589	6.808013916	0.027633304	22.4478836	538.7492065	24	19494.8335
	07	474.2166	815.2175293	3.33467	15.00014	1.44930291	1.448847055	0.003579901	2.921097994	70.10635	6.948896408	6.949000359	0.028205562	22.9957294	551.897522	24	19565.2207
	08	478.7748	823.0526123	3.327419	15.01297	1.37696588	1.378235459	0.003405428	2.806372166	67.35293	7.158755302	7.174532413	0.029120987	23.9695835	575.2700195	24	19753.2627
	09	482.5413	829.5275269	3.325384	15.01656	1.36901498	1.372741699	0.003391854	2.81440258	67.54566	7.373383522	7.394495964	0.030013809	24.8973923	597.5374146	24	19908.66064
	10	478.0413	821.7915649	3.34548	14.98101	1.43213379	1.426953316	0.003525804	2.899123669	69.57897	6.904062271	6.881586552	0.027931942	22.9573879	550.9772949	23.93889	19672.77668
	11	472.7092	812.6247559	3.330027	15.00835	1.49191129	1.493465781	0.003690149	3.000404596	72.00971	6.790706635	6.800866127	0.027604308	22.4310951	538.3463135	24	19502.99414
	12	471.4589	810.4759521	3.32284	15.02106	1.303514	1.307582259	0.003230856	2.62123704	62.90969	7.058913231	7.084915161	0.028757233	23.3051167	559.3228149	24	19451.42285
	13	195.4477	620.2904053	2.571968	13.1379	4.32516289	38.10274887	0.094146781	4.553461552	59.195	6.504769325	9.080949783	0.036859032	21.0281982	273.3665771	12.44722	7720.892228
	14	473.5415	814.0556641	3.342745	14.98585	1.15136683	1.148011923	0.002836579	2.311798334	55.48316	7.461302757	7.443825722	0.030214021	24.5953255	590.2877808	24	19537.33594
	15	475.7337	817.8244019	3.334054	15.00123	1.17372882	1.173539042	0.002899655	2.372850895	56.94842	7.656853199	7.659168243	0.031088101	25.4233742	610.1610107	24	19627.78564
	16	467.2719	803.250061	3.249326	14.71651	1.6184603	1.589962602	0.003928579	2.852274179	68.45458	8.038257599	8.233496666	0.03341927	26.4991741	635.9802246	24	19278.00146
	17	333.5904	724.3825073	2.946066	13.48768	3.6282618	10.0670681	0.024874348	4.723976612	89.75556	7.457346916	7.692715645	0.031224253	24.6967258	469.237793	18.05833	13081.14013
	18	482.4061	829.2960815	3.35699	14.96065	1.06519628	1.057085037	0.00261191	2.168128729	52.03509	7.843977928	7.791383743	0.031624749	26.2292461	629.5018921	24	19903.10596
	19	479.3157	823.9828491	3.327927	15.01207	1.01718342	1.018357515	0.00251622	2.074913263	49.79792	7.755424023	7.771225929	0.031542938	25.9918213	623.8037109	24	19775.58838
	20	478.588	822.7315674	3.31311	15.03828	1.01352632	1.019767761	0.002519705	2.074622154	49.79093	7.772753239	7.823637486	0.031755671	26.1276455	627.0634766	24	19745.55762

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	473.8464	814.5800171	3.325767	15.01589	0.92497224	0.926843107	0.002290101	1.867486238	44.81967	7.764010906	7.784997463	0.031598821	25.7413998	617.7935791	24	19549.92041
	22	472.7826	812.7521973	3.315147	15.03467	0.8755281	0.880590975	0.00217582	1.770026088	42.48063	7.890084743	7.936120987	0.032212228	26.1858578	628.4605713	24	19506.05273
	23	474.7717	816.1715698	3.323477	15.01994	0.89079046	0.895252764	0.002212046	1.803880334	43.29313	8.146050453	8.169644356	0.03316009	27.0759239	649.8222046	24	19588.11768
	24	477.9835	821.6925049	3.325129	15.01701	1.29651916	1.299851298	0.003211755	2.641120911	63.3869	7.552721024	7.574591637	0.0307448	25.2645874	606.3500977	24	19720.62012
	25	481.1564	827.1472778	3.337277	14.99553	1.49636209	1.494181275	0.003691917	3.055812359	73.3395	7.428233147	7.422054768	0.030125676	24.919529	598.0687256	24	19851.53467
	26	480.4891	825.9996948	3.331363	15.00599	1.50653684	1.508615136	0.003727578	3.079839706	73.91615	7.528553963	7.534081459	0.030580375	25.2661705	606.3881226	24	19823.99268
	27	476.6978	819.4821167	3.333459	15.00228	1.49365914	1.49407959	0.003691666	3.029094934	72.69828	7.322350025	7.325212002	0.029732592	24.3686371	584.84729	24	19667.5708
	28	472.2775	811.8833008	3.341156	14.98866	1.24246502	1.240295768	0.0030646	2.494822979	59.87575	7.38006115	7.365764618	0.0298972	24.275629	582.6151123	24	19485.19922
	29	475.0276	816.6107178	3.358028	14.95881	1.00621331	0.998810828	0.002467923	2.015855312	48.38053	7.708682537	7.655288219	0.03107235	25.374279	608.9827271	24	19598.65723
	30	476.7476	819.5671997	3.360297	14.9548	1.19747174	1.187609792	0.002934421	2.407176733	57.77224	7.619493484	7.560814381	0.030688874	25.1551456	603.7235107	24	19669.61279
Oct 03	1	478.3651	822.348938	3.358262	14.9584	1.24373579	1.234487057	0.003050245	2.509871721	60.23692	7.654151917	7.600697041	0.030850772	25.3706799	608.8963013	24	19736.37451
	2	480.7202	826.3963013	3.362395	14.95109	1.14150834	1.131550908	0.002795908	2.312252998	55.49407	7.962264061	7.896974087	0.032053337	26.4889088	635.7338257	24	19833.51123
	3	480.132	825.3856201	3.367483	14.94209	1.08157218	1.070577383	0.002645249	2.18564868	52.45557	7.940005302	7.862533569	0.03191353	26.3470135	632.3283081	24	19809.25488
	4	476.2696	818.7454224	3.359788	14.9557	1.02513242	1.016884208	0.002512583	2.060054064	49.4413	7.668458939	7.611020088	0.030892663	25.2983074	607.1594238	24	19649.89014
	5	476.6835	819.4585571	3.375432	14.92803	1.70542622	1.683756471	0.00416033	3.411201239	81.86883	7.762261868	7.668614388	0.031126454	25.5073376	612.1760864	24	19667.00537
	6	475.1402	816.8043823	3.346879	14.97854	1.76552415	1.75742662	0.00434236	3.549710512	85.19305	7.743978024	7.715625763	0.03131726	25.5810204	613.944519	24	19603.30518
	7	473.6021	814.1596069	3.341727	14.98765	1.65789163	1.653889537	0.004086535	3.329749584	79.91399	7.774820805	7.758806705	0.03149252	25.6405506	615.3731689	24	19539.83057
	8	474.3356	815.4205933	3.355146	14.96391	1.69207251	1.680262089	0.004151694	3.388082981	81.31399	7.804709435	7.756079674	0.031481467	25.6736755	616.1682129	24	19570.09424
	9	477.6428	821.1068115	3.363731	14.94872	1.69636583	1.680977464	0.004153464	3.412744045	81.90586	7.961150169	7.892224789	0.032034058	26.3060589	631.3453979	24	19706.56348
	10	487.352	837.796936	3.341793	14.98754	2.04374623	2.038938284	0.005037937	4.222818375	101.3476	8.249707222	8.232889175	0.033416796	27.9977284	671.9454956	24	20107.12646
	11	486.6865	836.6540527	3.34637	14.97944	2.05741882	2.050781727	0.0050672	4.24212265	101.8109	8.151931763	8.125050545	0.032979086	27.5977879	662.3469238	24	20079.69726
	12	484.178	832.3421631	3.348723	14.97528	2.10463738	2.095322847	0.005177256	4.312353134	103.4965	8.069895744	8.036891937	0.032621242	27.1510296	651.6246948	24	19976.21191
	13	486.558	836.4320679	3.337403	14.9953	2.17538452	2.173515081	0.005370455	4.493988991	107.8557	8.268625259	8.262132645	0.033535492	28.0499668	673.1992188	24	20074.36963
	14	486.3211	836.0259399	3.28403	15.08975	2.56742048	2.60946393	0.006447624	5.388858318	123.9437	8.209242821	8.335990906	0.033835277	28.2763252	650.3554688	24	20064.62256
	15	483.5963	831.3410034	3.290216	15.07881	2.8594954	2.899171352	0.007163452	5.95793581	142.9905	8.132059097	8.244304657	0.03346312	27.8220825	667.7299805	24	19952.18408
	16	488.6919	840.1017456	3.31362	15.03738	3.43963075	3.460827589	0.008551229	7.18687439	172.485	8.058448792	8.109890938	0.032917552	27.6539955	663.6959229	24	20162.44189
	17	485.5853	834.7601318	3.304653	15.05324	3.49098301	3.522771358	0.008704283	7.268764496	174.4503	7.910752773	7.982993603	0.032402482	27.0532379	649.27771	24	20034.24316
	18	477.0083	820.0157471	3.296386	15.06787	2.51259112	2.542675495	0.0062826	5.169667721	124.072	7.822674751	7.913972378	0.032122329	26.3491707	632.380127	24	19680.37793
	19	479.1317	823.6665649	3.333524	15.00216	2.4014616	2.40229249	0.005935736	4.890661716	117.3759	7.704708099	7.707446575	0.031284049	25.7707157	618.4971924	24	19767.99756
	20	477.2063	820.355835	3.340328	14.99012	2.40638995	2.402776718	0.005936929	4.871973515	116.9274	7.620604515	7.608141422	0.030880978	25.3371162	608.0908203	24	19688.54004
	21	476.217	818.6557617	3.32265	15.0214	2.84455204	2.856722593	0.007058569	5.774778366	138.5947	7.575135231	7.602426529	0.030857787	25.2651253	606.3629761	24	19647.73828
	22	478.0442	821.7963257	3.314764	15.03535	3.66968131	3.691975355	0.009122363	7.49812603	179.955	7.57068491	7.616527557	0.030915026	25.4086456	609.8074951	24	19723.11182
	23	483.0933	830.4766846	3.322777	15.02118	4.09862185	4.112857819	0.0101623	8.44337368	202.641	7.596916676	7.624526978	0.030947484	25.7010117	616.8242798	24	19931.44043
	24	480.1566	825.4281006	3.328564	15.01094	3.69654918	3.704790831	0.009154028	7.559312344	181.4235	7.567822456	7.582199097	0.030775687	25.4058704	609.7409058	24	19810.27441
	25	188.481	648.0274048	2.673865	13.55676	13.1190701	42.59077835	0.105235912	15.39057732	184.6869	7.258277416	8.859405518	0.035959765	23.0595856	276.7150269	11.35833	7360.510817
	26	486.3134	836.0118408	3.313237	15.03805	3.38748336	3.40756464	0.00841962	7.046958923	169.127	7.757967949	7.808681011	0.03169496	26.4973373	635.9360962	24	20064.28418
	27	486.2063	835.8276367	3.299057	15.06314	3.08239245	3.115765333	0.007698626	6.44264555	154.6235	7.84779501	7.933058739	0.032199789	26.9192829	646.0628052	24	20059.86328
	28	485.8468	835.2088623	3.296895	15.06696	2.79081464	2.822952032	0.006975126	5.830886841	139.9413	8.028558731	8.12103653	0.032962784	27.5328255	660.7877808	24	20045.0127
	29	486.3214	836.026001	3.308977	15.04559	2.4620347	2.481913805	0.006132464	5.129858017	123.1166	8.300741196	8.365549088	0.033955257	28.3878422	681.3082275	24	20064.62402
	30	500.967	861.2028809	3.332253	15.00441	3.10306048	3.105093718	0.00767226	6.609216213	158.6212	8.530474663	8.537464142	0.034653038	29.8453369	716.2880859	24	20668.86914
	31	502.497	863.8335571	3.322395	15.02185	4.74521112	4.751255512	0.011739695	10.14801311	243.5523	8.374509811	8.40780735	0.034126773	29.4787331	707.489624	24	20732.00537
Total		341,001	593731.9904							74,714					462,911	16682.62	14,073,215
Average		482.3212	839.7906512	3.282094	14.9678	2.27092732	2.968476582	0.007333333	4.636657274	105.6774	8.001307278	8.116707627	0.032942374	27.6998055	654.753721	22.85291	19278.37652
Ann Avg.		170,501								37,357					231,455	8341.311	7,036,607

6898.634736 mmscf/yr

Attachment C

Air Quality Impact Analysis

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Attachment C

KRCC Ambient Air Quality Analysis

Overview

The purpose of the air dispersion modeling analysis is to demonstrate that air emissions from the proposed modification at the KRCC facility will not cause or contribute to exceeding any state or federal ambient air quality standards (AAQS). The modeling addresses worst-case emissions from all four turbines at KRCC, two in proposed simple cycle mode and two in the existing cogeneration mode. In addition a cumulative analysis has been performed that includes the four existing cogeneration units located at the nearby Sycamore cogeneration plant. Separate modeling analyses were performed for the KRCC facility alone and cumulative, Sycamore and KRCC, scenarios.

Model and Model Options

The modeling was conducted using the U.S. EPA's Industrial Source Complex (ISC) model, Version 02035 (U.S. EPA, 1995b). The short-term model version, ISCST3, was used for modeling concentrations of pollutants having short-term (i.e., 1-, 3-, 8-, and 24-hour) ambient standards. The ISCST3 model is the most appropriate model because it is a U.S. EPA guideline model for plume dispersion in simple and complex terrain. For pollutants having both short-term and annual standards (i.e., NO_2, SO_2, and PM_{10}), modeling was conducted using ISCST3 with the PERIOD option to predict impacts on the annual standard. The ISCST3 model was run with the following additional options:

- Final plume rise at all receptors;
- Stack-tip downwash;
- Buoyancy-induced dispersion;
- Calms processing;
- Missing data processing routine;
- Default wind profile exponents;
- Default vertical potential temperature gradients; and
- Rural dispersion coefficients.

Building Wake Effects

The effect of building wakes (i.e., downwash) on the stack plumes was evaluated in accordance with U.S. EPA guidance (U.S. EPA, 1985). Direction-specific building data were generated for stacks below good engineering practice (GEP) stack height using U.S. EPA's Building Profile Input Program (BPIP) (Version 98086 [U.S. EPA, 1995c]). The turbines, HRSGs, inlet air filters and evaporative cooler structures were included in the analysis for the KRCC site. The results of the BPIP analysis were included in the ISCST3 input files to assess downwash effects. The ISCST3 model considers direction-specific downwash using both the Huber-Snyder and Schulman-Scire algorithms as evaluated in the BPIP program. Input and output files for the BPIP analysis are attached.

Meteorological Data

ISCST3 ready meteorological data used in the analysis was gathered from the SJVUAPCD website. Five years of data, 1986-1990, from Bakersfield - Meadows Field (Station # 23155) was used in the analysis. These data sets have a number of missing hours where data was not gathered, mostly at night. Therefore, the missing data processing routine was used in the ISCST analysis.

Receptor Locations

Receptors were placed at off-site locations to evaluate the impacts of the KRCC project and the cumulative impacts of KRCC and Sycamore. Receptor spacing was determined according to a receptor's distance from the property boundary. To ensure that the location of highest impact was identified, receptor spacing was closest at the property boundary and increased with distance. Receptors were placed out to 10 kilometers (km) from the property boundary. The following receptor spacing was used in the modeling analysis:

- 25-meter spacing along the property line and extending from the property line out to 100 meters;
- 100-meter spacing within 100 m - 1 km of the facility;
- 250-meter spacing within 1 to 10 km of the facility;

The receptor locations were designated using Universal Transverse Mercator (UTM) coordinates. Receptor elevations were obtained from United States Geological Survey (USGS) 7.5-minute electronic data.

Emission Rates and Stack Parameters

Emission rates were developed based on current operating permit limits for normal operation and startup and shutdowns. For this analysis the worst-case emission rate for each pollutant and averaging time. Startup and shutdown emission rates were used for short-term NOx and CO because those emission rates are higher than normal operation. Because emissions are not changing, the same emission rates are used for pre- and post- project sources, including simple cycle and cogeneration units. The Sycamore facility cogeneration units are identical to those at KRCC, therefore, the emission rates used for Sycamore in the cumulative analysis are also the same as those used at KRCC. Table 1 provides a summary of the emission rates used in the modeling analysis.

Table 1. Modeling Emission Rates

Emission Rates (g/s)	NOx	CO	SO2	PM10	Comments
1-hr and 3-hr	17.64	17.64	6.30E-02		Startup emission rate
8-hr	--	8.57	6.30E-02		6 hr of normal operation/(2) 0.5 hr starts/(2) 0.5 hr stops
24-hr	--	--	6.30E-02	6.30E-01	same as 1-hr
Annual	8.56	--	6.30E-02	6.30E-01	daily maximum for 365 days

Stack parameters for the existing cogeneration units were based on the average of source test data from the stacks. The Sycamore units were assumed to have identical stack parameters as the KRCC cogeneration units. The simple cycle unit stack parameters were based on an estimated stack gas temperature and the same mass flow rate of exit gas that was used for the cogeneration units. A summary of the simple cycle and cogeneration unit stack parameters is provided in Table 2.

Table 2. Summary of Simple Cycle and Cogeneration Stack Parameters

Source	Stack Height (ft)	Temperature (F)	Exit Velocity (ft/s)	Stack Diameter (ft)
Simple Cycle	46.60	1025	81.68	17.575
Cogeneration	63.58	275	91.20	12

Fumigation Analysis

Fumigation occurs when a plume that was originally emitted into a stable layer of air is mixed rapidly to ground-level when unstable air below the plume reaches plume level. Fumigation can cause very high ground-level concentrations. Fumigation can occur during the break up of the nocturnal radiation inversion by solar warming of the ground surface (inversion break-up fumigation). Such conditions are short-lived and are typically compared only with 1-hour standards. A fumigation analysis was performed using the U.S. EPA SCREEN3 model (Version 96043) for a simple cycle stack and a cogeneration stack. A 1 g/s emission rate was used to develop a normalized concentration impact (units of [□g/m3]/[g/s]) for each stack type. The result was multiplied by the hourly emission rate for each pollutant in units of g/s to calculate the fumigation concentration for each pollutant. SCREEN3 output for the fumigation analysis are attached.

Existing Air Quality

The project site is located in the Kern River oilfield near the center of the north ½ of Section 32, Township 28 South, Range 28 East in Kern County, near Bakersfield, in the San Joaquin Valley Air Basin. The monitoring station closest to the facility for most pollutants is the Oildale - 3311 Manor Street station. This monitoring station is located approximately 8 miles to the east of the project site. However, this station does not measure all criteria pollutant concentrations, and data from other stations are necessary. Monitoring stations in Bakersfield located at Golden State Highway, 5558 California Avenue and 410 E. Planz Road are the next closest monitoring locations that are located near the facility and were used as necessary to supplement data from the Manor Street Station. Gaseous pollutants monitored at these stations include ozone, carbon monoxide, nitrogen oxides, sulfur dioxide, PM_{10} and $PM_{2.5}$.

Air quality measurements taken at these stations are presented in Tables 3 through 8. For the air quality impact analysis, the maximum background concentration from 1998 to 2002 from the Oildale station was used, where available.

Table 3. Ambient Ozone Levels near Bakersfield, 1998-2002 (ppm)

	1998	1999	2000	2001	2002
Oildale - 3311 Manor Street					
Maximum 1-Hour Average	0.122	0.104	**0.124**	**0.124**	0.112
Number of Days Exceeding California 1-Hour Standard (0.09 ppm)	37	16	**31**	28	29
Number of Days Exceeding Federal 1-Hour Standard (0.12 ppm)	0	0	0	0	0
Maximum 8-Hour Average	0.11	0.095	0.107	**0.111**	0.104
Number of Days Exceeding Federal 8-Hour Standard (0.08 ppm) [a]	44	28	36	35	**37**
Bakersfield – Golden State Highway					
Maximum 1-Hour Average	0.132	0.118	0.117	0.125	0.117
Number of Days Exceeding California 1-Hour Standard (0.09 ppm)	32	26	28	26	29
Number of Days Exceeding Federal 1-Hour Standard (0.12 ppm)	1	0	0	1	0
Maximum 8-Hour Average	0.111	0.099	0.101	0.107	0.105
Number of Days Exceeding Federal 8-Hour Standard (0.08 ppm) [a]	33	26	30	27	29
Bakersfield - 5558 California Avenue					
Maximum 1-Hour Average	0.124	0.116	0.125	0.129	0.119
Number of Days Exceeding California 1-Hour Standard (0.09 ppm)	29	44	41	46	28
Number of Days Exceeding Federal 1-Hour Standard (0.12 ppm)	0	0	1	1	0
Maximum 8-Hour Average	0.11	0.101	0.106	0.115	0.105
Number of Days Exceeding Federal 8-Hour Standard (0.08 ppm) [a]	38	47	40	47	35

Note 1: Maximum average values ocurring during the most recent three years are indicated in bold.

a Number of days with an 8-hour average exceeding federal standard concentration of 0.08 ppm. Regulatory standard is to maintain 0.08 ppm as a 3-year average of the fourth-highest daily maximum. Therefore, number of days exceeding standard concentration is not the number of violations of the standard for the year.

Source: California Air Resources Board (CARB), 2003, www.arb.ca.gov.

ppm = parts per million

Table 4. Ambient PM10, Particulate Levels <10 µm, near Bakersfield, 1998-2002 (µg/m^3)

	1998	1999	2000	2001	2002
Oildale - 3311 Manor Street					
Maximum 24-Hour Average	103	156	122	**158**	93
Annual Geometric Mean[b]	30	41	35	39	**42**
Annual Arithmetic Mean[c]	39	45	40	**47**	**47**
Estimated Number of Days Exceeding California 24-Hour Standard (50 µg/m^3)[a]	86	100	48	**138**	126
Estimated Number of Days exceeding Federal Standard (150 µg/m^3)[a]	0	8.3	0	**6.1**	0
Bakersfield - Golden State Highway					
Maximum 24-Hour Average	159	183	145	205	189
Annual Geometric Mean[b]	43	50	45	49	53
Annual Arithmetic Mean[c]	35	59	53	54	59
Estimated Number of Days Exceeding California 24-Hour Standard (50 µg/m^3)[a]	109	168	156	174	240
Estimated Number of Days exceeding Federal Standard (150 µg/m^3)[a]	--	6.1	0	--	6.1
Bakersfield - 5558 California Avenue					
Maximum 24-Hour Average	148	143	140	190	100
Annual Geometric Mean[b]	31	40	39	43	45
Annual Arithmetic Mean[c]	36	44	40	51	49
Estimated Number of Days Exceeding California 24-Hour Standard (50 µg/m^3)[a]	45	21	54	141	174
Estimated Number of Days exceeding Federal Standard (150 µg/m^3)[a]	0	0	0	9.1	0

Note: Maximum average values occurring during the most recent three years are indicated in bold.
[a] Measurements are typically collected every six days. Values reported are estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.
[b] Almost all annual geometric mean concentrations are above the California PM_{10} ambient air quality standard of 30 µg/m^3.
[c] The federal PM_{10} ambient air quality standard is an annual arithmetic mean concentration of 50 µg/m^3. This concentration has been exceeded.
Source: CARB, 2003.
-- = Data not available
µg/m^3 = micrograms per cubic meter
µm = micrometer

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Table 5. Ambient PM2.5, Particulate Levels <2.5 µm, near Bakersfield, 1998-2002 (µg/m^3)

	1998	1999	2000	2001	2002
Bakersfield - Golden State Highway					
Maximum 24-Hour Average	--	133.9	108.1	**120.4**	85
Estimated Number of Days exceeding Federal Standard (65 µg/m^3)[a]	--	11	**9**	6	5
98th Percentile	--	95.3	85.6	**89.6**	80.4
National Annual Average	--	26.2	22.6	21.8	24.1
Bakersfield - 5558 California Avenue					
Maximum 24-Hour Average	--	134.1	112.7	**154.7**	89.6
Estimated Number of Days exceeding Federal Standard (65 µg/m^3)[a]	--	28	**19**	**19**	14
98th Percentile	--	98	88.8	**94.9**	73
National Annual Average	--	26.8	22	21.2	22.8
Bakersfield – 410 E Planz Road					
Maximum 24-Hour Average	--	--	91	**114.2**	76.4
Estimated Number of Days exceeding Federal Standard (65 µg/m^3)[a]	--	--	**6**	**6**	3
98th Percentile	--	--	76.5	**90.6**	66.8
National Annual Average	--	--	20.3	20.8	23.6

Note: Maximum average values occurring during the most recent three years are indicated in bold.
[a] Measurements are typically collected everyday, every three days, or every six days. Values reported are estimated number of days that a measurement would have been greater than the level of the standard had measurements been collected every day. The number of days above the standard is not necessarily the number of violations of the standard for the year.
Source: CARB, 2003.
-- = Data not available
µg/m^3 = micrograms per cubic meter
µm = micrometer

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Table 6. Ambient Carbon Monoxide Levels near Bakersfield, 1998-2002 (ppm)

	1998	1999	2000	2001	2002
Bakersfield - Golden State Highway*					
Maximum 1-Hour Average[a]	5.2	**10.5**	10.1	5.7	4.5
Maximum 8-Hour Average[b]	3.11	5	**5.38**	3.49	2.5
Bakersfield - 5558 California Avenue					
Maximum 1-Hour Average[a]	5.7	5.8	6.9	5.8	4.4
Maximum 8-Hour Average[b]	3.9	4.51	4.89	3.41	2.51

Note: Maximum average values occurring during the most recent three years are indicated in bold.
*1998 Data from the Golden State Highway Station had not good coverage (only 55%)
[a] All 1-hour concentrations are below the California CO ambient air quality standard of 20 ppm and the federal CO ambient air quality standard of 35 ppm.
[b] 8-hour concentrations are below the California and federal CO ambient air quality standards of 9.0 ppm.
Sources: CARB, 2003
-- = Data not available
ppm = parts per million

Table 7. Ambient Nitrogen Dioxide Levels near Bakersfield, 1998-2002 (ppm)

	1998	1999	2000	2001	2002
Oildale - 3311 Manor Street					
Maximum 1-Hour Average [a]	0.08	0.08	0.069	**0.076**	0.075
Annual Average [b]	0.016	0.016	**0.016**	0.014	0.015
Bakersfield - Golden State Highway					
Maximum 1-Hour Average [a]	0.097	0.094	0.078	0.088	0.077
Annual Average [b]	0.024	0.027	0.023	0.015	0.024
Bakersfield - 5558 California Avenue					
Maximum 1-Hour Average [a]	0.084	0.107	0.089	0.115	0.107
Annual Average [b]	0.022	0.025	0.024	0.022	0.021

Note: Maximum average values occurring during the most recent three years are indicated in bold.
[a] All 1-hr concentrations are below the California NO_2 ambient air quality standard of 0.25 ppm.
[b] All annual average concentrations are below the federal NO_2 ambient air quality standard of 0.053 ppm.
Source: CARB, 2003 California Air Quality Data Statistics. (http:\\www.arb.ca.gov/adam).
ppm = parts per million.

Table 8. Ambient Sulfur Dioxide Levels near Bakersfield, 1998-2002 (ppm)

	1994	1995	1996	1997	1998	1999	2000	2001	2002
Oildale-3311 Manor Street, Kern County									
Maximum 1-Hour Average [a]	0.029	0.022	0.018	0.02	--	--	--	--	--
Maximum 24-Hour Average [b]	0.0084	0.0087	0.0131	0.0054	--	--	--	--	--
Annual Average [c]	0.0033	0.0034	0.0027	0.0018	--	--	--	--	--
Bakersfield-5558 California Avenue, Kern County									
Maximum 1-Hour Average [a]	0.02	0.026	0.059	0.011	--	0.011	0.019	**0.03**	--
Maximum 24-Hour Average [b]	0.0067	0.0149	0.0105	0.004	--	**0.0063**	0.003	0.005	--
Annual Average [c]	0.0027	0.0028	0.0022	0.002	--	**0.0032**	0.003	0.002	--

[a] All 1-hour average concentrations are below the California SO_2 ambient air quality standard of 0.25 ppm.
[b] All 24-hour concentrations are below the California SO_2 ambient air quality standard of 0.05 ppm (131 $\mu g/m^3$) and the federal ambient air quality standard of 0.14 ppm (365 $\mu g/m^3$).
[c] All annual average concentrations are below the federal SO_2 ambient air quality standard of 0.03 ppm (80 $\mu g/m^3$).
Sources: CARB, 2003
-- = Data not available
ppm = parts per million
$\mu g/m^3$ = micrograms per cubic meter

Air Quality Impact Results

The results of the air quality analysis are summarized in Tables 9 and 10. Neither the KRCC impacts alone, nor the cumulative impacts are predicted to cause the exceedance of any applicable AAQS. Excerpts of the ISCST3 model results attached.

Conclusions

An air quality impact analysis was conducted for operating two existing cogeneration units either in simple cycle or cogeneration at the KRCC facility. Analyses for current operations at KRCC (4 cogeneration units), post-project operations at KRCC (2 simple cycle units, 2 cogeneration units) and cumulative effects including the Sycamore facility were completed. Results of the modeling indicate that neither the post-project KRCC facility nor the cumulative impacts including Sycamore would cause a new violation of any AAQS. In addition, the modeling analysis results show that air impacts will be slightly lower after the project is completed than they are currently from the KRCC facility.

Table 9. ISCST3 Modeling Results

Pollutant	Averaging Period	Maximum Modeled Impact ($\mu g/m^3$)	Background[b] ($\mu g/m^3$)	Total Predicted Concentration ($\mu g/m^3$)	AAQS ($\mu g/m^3$)	% of Standard
KRCC Impacts - Current						
CO	1-hour	239.8	11,764	12,004	23,000	52.2
	8-hour	30.9	6,266	6,297	10,000	63.0
NO_2	1-hour	239.8	145.4	385.2	470	82.0
	Annual	1.46	30.6	32.1	100	32.1
PM_{10}	24-hour	0.77	158	158.8	50	317.6
	Annual	0.11	47	47.1	30	157.0
SO_2	1-hour	0.86	79.9	80.8	655	12.3
	3-hour	0.39	79.9	80.3	1,300	6.2
	24-hour	0.08	16.8	16.9	105	16.1
	Annual	0.011	8.5	8.5	80	10.6
KRCC Impacts – After Project						
CO	1-hour	234.9	11,764	11,999	23,000	52.2
	8-hour	22.2	6,266	6,288	10,000	62.9
NO_2	1-hour	234.9	145.4	380.3	470	80.9
	Annual	0.82	30.6	31.4	100	31.4
PM_{10}	24-hour	0.73	158	158.7	50	317.4
	Annual	0.06	47	47.1	30	157.0
SO_2	1-hour	0.84	79.9	80.7	655	12.3
	3-hour	0.44	79.9	80.3	1,300	6.2
	24-hour	0.07	16.8	16.9	105	16.1
	Annual	0.006	8.5	8.5	80	10.6
Cumulative Impacts (KRCC after Project & Sycamore)						
CO	1-hour	265.5	11,764	12,030	23,000	52.3
	8-hour	42.0	6,266	6,308	10,000	63.1
NO_2	1-hour	265.5	145.4	410.9	470	87.4
	Annual	1.80	30.6	32.4	100	32.4
PM_{10}	24-hour	1.00	158	159	50	318.0
	Annual	0.13	47	47.1	30	157.0
SO_2	1-hour	0.95	79.9	80.9	655	12.4
	3-hour	0.48	79.9	80.4	1,300	6.2
	24-hour	0.11	16.8	16.9	105	16.1
	Annual	0.013	8.5	8.5	80	10.6

a Source: 40 CFR 52.21

b Background represents the maximum value measured at Oildale, 2000 - 2002.

AAQS = Most stringent ambient air quality standard for the averaging period.

Table 10. Fumigation Impacts

Pollutant	SCREEN3 Inversion 1-hr Result [µg/m3]/[g/s]		Emission Rate Per Turbine (lb/hr)	Maximum Impact –4 Turbines (µg/m^3)	Background (µg/m^3)	Total (µg/m^3)	Lowest AAQS
	Simple Cycle	Cogeneration					
CO 1-hour	0.6392	1.817	140	86.7	11,764	11,851	23,000
NO_2 1-hour	0.6392	1.817	140	86.7	145.4	232.1	470
SO_2 1-hour	0.6392	1.817	0.5	0.31	79.9	80.2	655
SO_2 3-hour	0.6392	1.817	0.5	0.31	79.9	80.2	1,300

BPIP Input and Output Files

URS

```
'E:\KRCC\KRCC.BST BEESTWin GEP Files 12/8/2003 12:09:57 PM'
'ST'
'METERS'      1.0
'UTMY'        0
 16
'KHRSGA'       1            256.
 8            8.763
319971.22     3924835.27
319980.31     3924831.77
319986.62     3924831.18
319992.89     3924834.1
319993.1      3924838.12
319988.33     3924841.37
319981.16     3924841.87
319971.85     3924839.94
'KGTA'         1            258.8
 4            5.4864
319955.82     3924850.25
319977.61     3924850
319977.83     3924853.63
319956.47     3924856.43
'KGTB'         1            257.5
 4            5.4864
319952.26     3924806.79
319974.07     3924806.87
319974.67     3924810.38
319952.7      3924812.79
'KHRSGB'       1            256.3
 8            8.763
319967.81     3924791.94
319976.81     3924787.81
319983.39     3924787.69
319989.44     3924790.23
319989.63     3924794.65
319984.74     3924798.24
319978.03     3924798.47
319968.57     3924796.46
'KGTC'         1            258.6
 4            5.4864
319948.9      3924763.55
319970.73     3924763.19
319971.15     3924766.86
319949.03     3924769.76
'KHRSGC'       1            258.6
 8            8.763
319964.46     3924748.11
319973.72     3924744.31
319979.89     3924743.88
319985.54     3924746.69
319986.44     3924751.1
319981.29     3924754.28
319974.31     3924754.87
319965.06     3924752.98
'KGTD'         1            257.7
 4            5.4864
319945.54     3924719.58
319967.3      3924719.52
319967.94     3924723.61
319945.82     3924726.51
'KHRSGD'       1            257.8
 8            8.763
319961.48     3924704.85
319970.29     3924701.32
319976.19     3924700.42
319982.24     3924702.91
319983.11     3924708.15
319978.03     3924711.08
319971.16     3924711.13
319961.87     3924709.44
'InletA'       1            261.
 4            12.192
319942.01     3924862.26
319951.94     3924861.56
319950.88     3924845.45
319940.38     3924846.71
'InletB'       1            259.4
 4            12.192
319947.71     3924802.14
319937.31     3924803.36
319938.43     3924818.5
319948.81     3924817.53
'InletC'       1            258.4
 4            12.192
319943.97     3924758.78
319934.16     3924759.76
```

```
319934.94      3924774.78
319945.69      3924773.55
'InletD'        1            257.2
 4             12.192
319940.98      3924715.32
319930.97      3924716.17
319931.46      3924731.75
319941.91      3924731.02
'CoolerA'       1            260.8
 4             13.2588
319951.25      3924849.12
319954.66      3924848.73
319955.61      3924857.71
319952.73      3924858.11
'CoolerB'       1            259.7
 4             13.2588
319948.21      3924805.61
319951.4       3924805.53
319952.25      3924814.37
319948.78      3924814.61
'CoolerC'       1            258.9
 4             13.2588
319944.79      3924762.13
319948.54      3924761.92
319949.25      3924770.77
319945.2       3924771.54
'CoolerD'       1            257.6
 4             13.2588
319941.5       3924718.45
319944.89      3924718.46
319945.83      3924727.34
319942.3       3924727.97
 10
'KRSSC    '     259          14.2049      319961.08     3924757.2
'KRSSD    '     258          14.2049      319957.91     3924713.95
'KRCCA    '     255.6        19.3792      319995.92     3924835.69
'KRCCB    '     256.1        19.3792      319992.9      3924792.47
'KRCCC    '     258.4        19.3792      319989.29     3924748.96
'KRCCD    '     258.4        19.3792      319986.3      3924705.55
'SYCA     '     241.7        19.3792      317196.07     3925079.17
'SYCB     '     238          19.3792      317239.35     3925079.18
'SYCC     '     230.1        19.3792      317281.52     3925079.35
'SYCD     '     219.6        19.3792      317324.42     3925079.36
```

BEE-Line Software Version: 8.80

Input File - KRCC.GPW
Input File - KRCC.PIP
Output File - KRCC.TAB
Output File - KRCC.SUM
Output File - KRCC.SO

BPIP (Dated: 95086)

DATE : 12/08/2003
TIME : 12:09:57 PM
E:\KRCC\KRCC.BST BEESTWin GEP Files 12/8/2003 12:09:57 PM

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BPIP PROCESSING INFORMATION:
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The ST flag has been set for processing for an ISCST2 run.

Inputs entered in METERS will be converted to meters using a conversion factor of 1.0000. Output will be in meters.

The UTMP variable is set to UTMY. The input is assumed to be in UTM coordinates. BPIP will move the UTM origin to the first pair of UTM coordinates read. The UTM coordinates of the new origin will be subtracted from all the other UTM coordinates entered to form this new local coordinate system.

Plant north is set to 0.00 degrees with respect to True North.

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PRELIMINARY* GEP STACK HEIGHT RESULTS TABLE
(Output Units: meters)

Stack Name	Stack Height	Stack-Building Base Elevation Differences	GEP** EQN1	Preliminary* GEP Stack Height Value
KRSSC	14.20	-0.70	31.18	65.00
KRSSD	14.20	-0.90	31.38	65.00
KRCCA	19.38	-5.40	35.88	65.00
KRCCB	19.38	-3.60	34.08	65.00
KRCCC	19.38	-0.50	30.98	65.00
KRCCD	19.38	0.80	29.68	65.00
SYCA	19.38	N/A	0.00	65.00
SYCB	19.38	N/A	0.00	65.00
SYCC	19.38	N/A	0.00	65.00
SYCD	19.38	N/A	0.00	65.00

* Results are based on Determinants 1 & 2 on pages 1 & 2 of the GEP Technical Support Document. Determinant 3 may be investigated for additional stack height credit. Final values result after Determinant 3 has been taken into consideration.

** Results were derived from Equation 1 on page 6 of GEP Technical Support Document. Values have been adjusted for any stack-building base elevation differences.

Note: Criteria for determining stack heights for modeling emission limitations for a source can be found in Table 3.1 of the GEP Technical Support Document.

BPIP (Dated: 95086)

DATE : 12/08/2003
TIME : 12:09:57 PM

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BPIP output is in meters

SO BUILDHGT	KRSSC	5.49	12.19	12.19	12.19	12.19	5.49
SO BUILDHGT	KRSSC	5.49	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT	KRSSC	12.19	12.19	12.19	12.19	12.19	8.76
SO BUILDHGT	KRSSC	8.76	8.76	8.76	8.76	5.49	5.49

SO BUILDHGT KRSSC	5.49	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT KRSSC	12.19	12.19	12.19	8.76	8.76	8.76
SO BUILDWID KRSSC	37.26	17.17	18.28	18.83	18.81	27.93
SO BUILDWID KRSSC	23.13	17.32	16.00	15.58	16.90	17.71
SO BUILDWID KRSSC	18.13	18.64	18.44	17.80	16.62	21.98
SO BUILDWID KRSSC	21.63	21.74	21.19	19.99	31.88	27.93
SO BUILDWID KRSSC	23.13	17.32	16.00	15.58	16.90	17.71
SO BUILDWID KRSSC	18.13	18.64	18.57	21.68	22.17	21.98
SO BUILDHGT KRSSD	5.49	5.49	5.49	5.49	5.49	5.49
SO BUILDHGT KRSSD	5.49	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT KRSSD	12.19	12.19	12.19	12.19	12.19	8.76
SO BUILDHGT KRSSD	8.76	8.76	8.76	8.76	5.49	5.49
SO BUILDHGT KRSSD	5.49	12.19	12.19	12.19	12.19	12.19
SO BUILDHGT KRSSD	12.19	12.19	12.19	8.76	8.76	8.76
SO BUILDWID KRSSD	22.37	22.58	22.10	20.95	19.16	16.79
SO BUILDWID KRSSD	13.92	17.83	16.43	16.52	17.70	18.33
SO BUILDWID KRSSD	18.41	18.56	18.57	17.95	16.77	21.63
SO BUILDWID KRSSD	21.38	21.40	20.88	19.73	19.16	16.79
SO BUILDWID KRSSD	13.92	17.83	16.43	16.52	17.70	18.33
SO BUILDWID KRSSD	18.41	18.56	18.45	21.45	21.87	21.63
SO BUILDHGT KRCCA	8.76	8.76	8.76	8.76	12.19	12.19
SO BUILDHGT KRCCA	12.19	8.76	8.76	12.19	12.19	12.19
SO BUILDHGT KRCCA	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCA	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCA	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCA	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDWID KRCCA	21.63	21.74	21.19	19.99	18.50	18.81
SO BUILDWID KRCCA	18.55	11.48	10.69	16.63	17.91	18.64
SO BUILDWID KRCCA	16.25	18.59	20.37	21.54	22.04	21.88
SO BUILDWID KRCCA	21.73	21.77	21.14	19.87	18.00	15.58
SO BUILDWID KRCCA	13.28	11.48	10.69	10.85	11.76	13.84
SO BUILDWID KRCCA	16.25	18.59	20.37	21.54	22.04	21.88
SO BUILDHGT KRCCB	8.76	8.76	8.76	8.76	12.19	12.19
SO BUILDHGT KRCCB	12.19	8.76	8.76	12.19	12.19	12.19
SO BUILDHGT KRCCB	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCB	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCB	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCB	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDWID KRCCB	21.38	21.40	20.88	19.73	18.59	18.37
SO BUILDWID KRCCB	18.12	11.55	10.78	15.95	17.25	18.02
SO BUILDWID KRCCB	16.10	18.46	20.25	21.43	21.96	21.82
SO BUILDWID KRCCB	21.63	21.74	21.19	19.99	18.19	15.83
SO BUILDWID KRCCB	13.31	11.55	10.78	11.65	12.51	13.92
SO BUILDWID KRCCB	16.10	18.46	20.25	21.43	21.96	21.82
SO BUILDHGT KRCCC	8.76	8.76	8.76	8.76	12.19	12.19
SO BUILDHGT KRCCC	12.19	8.76	8.76	12.19	12.19	12.19
SO BUILDHGT KRCCC	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCC	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCC	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCC	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDWID KRCCC	21.38	21.40	20.88	19.73	18.81	18.99
SO BUILDWID KRCCC	18.70	11.79	10.99	15.58	16.90	17.71
SO BUILDWID KRCCC	16.42	18.76	20.53	21.68	22.17	21.98
SO BUILDWID KRCCC	21.38	21.40	20.88	19.73	17.98	15.69
SO BUILDWID KRCCC	13.62	11.79	10.99	11.13	11.96	13.76
SO BUILDWID KRCCC	16.42	18.76	20.53	21.68	22.17	21.98
SO BUILDHGT KRCCD	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCD	8.76	8.76	8.76	12.19	12.19	12.19
SO BUILDHGT KRCCD	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCD	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCD	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDHGT KRCCD	8.76	8.76	8.76	8.76	8.76	8.76
SO BUILDWID KRCCD	21.19	21.37	20.91	19.80	18.10	15.84
SO BUILDWID KRCCD	13.37	11.42	10.71	16.52	17.70	18.33
SO BUILDWID KRCCD	16.43	18.69	20.53	21.68	22.17	21.98
SO BUILDWID KRCCD	21.19	21.37	20.91	19.80	18.10	15.84
SO BUILDWID KRCCD	13.37	11.42	10.71	10.96	11.82	13.67
SO BUILDWID KRCCD	16.43	18.69	20.38	21.45	21.87	21.63
SO BUILDHGT SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO BUILDHGT SYCA	0.00	0.00	0.00	0.00	0.00	0.00

SO	BUILDHGT	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCA	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCB	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCC	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDHGT	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00
SO	BUILDWID	SYCD	0.00	0.00	0.00	0.00	0.00	0.00

SCREEN3 Fumigation Output File

URS

12/09/03
13:41:35

```
 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 96043 ***

KRCC Simple Cycle

SIMPLE TERRAIN INPUTS:
   SOURCE TYPE            =        POINT
   EMISSION RATE (G/S)    =      1.00000
   STACK HEIGHT (M)       =      14.2049
   STK INSIDE DIAM (M)    =       5.3569
   STK EXIT VELOCITY (M/S)=      24.8960
   STK GAS EXIT TEMP (K)  =     824.8300
   AMBIENT AIR TEMP (K)   =     293.0000
   RECEPTOR HEIGHT (M)    =       0.0000
   URBAN/RURAL OPTION     =        RURAL
   BUILDING HEIGHT (M)    =       0.0000
   MIN HORIZ BLDG DIM (M) =       0.0000
   MAX HORIZ BLDG DIM (M) =       0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.


BUOY. FLUX = 1129.269 M**4/S**3;  MOM. FLUX = 1579.512 M**4/S**2.

*** FULL METEOROLOGY ***

 *** INVERSION BREAK-UP FUMIGATION CALC. ***
  CONC (UG/M**3)   =   0.6392
  DIST TO MAX (M)  = 26396.85

     ****************************************
     *** SUMMARY OF SCREEN MODEL RESULTS ***
     ****************************************

 CALCULATION        MAX CONC    DIST TO   TERRAIN
  PROCEDURE        (UG/M**3)    MAX (M)    HT (M)
--------------    -----------   -------   -------
INV BREAKUP FUMI   0.6392        26397.       --


****************************************************
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
****************************************************
```

Excerpts of ISCST3 Model Results

URS

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 12:29:50 ***
 Input File - E:\KRCC\Modeling\KRCC_86_CO1.DTA

Output File - E:\KRCC\Modeling\KRCC_86_CO1.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	234.94258	ON 86021416:	AT (319844.09, 3924953.25, 238.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	141.79581	ON 86120320:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	239.76303	ON 86082905:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	232.06825	ON 86120320:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	255.48677	ON 86082905:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	248.27087	ON 86120320:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	255.48677	ON 86082905:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	248.27087	ON 86120320:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	305.48944	ON 86121518:	AT (323000.00, 3930500.00, 367.40, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	250.00961	ON 86122021:	AT (323000.00, 3930500.00, 367.40, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 12:39:14 ***
 Input File - E:\KRCC\Modeling\KRCC_87_CO1.DTA

Output File - E:\KRCC\Modeling\KRCC_87_CO1.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	145.01711	ON 87092806:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	144.07870	ON 87041605:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	239.76303	ON 87092806:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	237.56181	ON 87041605:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	255.48677	ON 87092806:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	253.43103	ON 87041605:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	255.48677	ON 87092806:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	253.43103	ON 87041605:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	307.04056	ON 87011607:	AT (323250.00, 3930000.00, 365.20, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	270.39035	ON 87122518:	AT (325500.00, 3929750.00, 390.80, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 12:49:02 ***
 Input File - E:\KRCC\Modeling\KRCC_88_CO1.DTA

Output File - E:\KRCC\Modeling\KRCC_88_CO1.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	142.62843	ON 88021021:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	133.35760	ON 88051006:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	234.09814	ON 88021021:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	210.23340	ON 88051006:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	220.93198	ON 88021021:	AT (317500.00, 3930250.00, 348.90, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	220.93198	ON 88021021:	AT (317500.00, 3930250.00, 348.90, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	244.84930	ON 88112806:	AT (326250.00, 3929250.00, 371.90, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 12:58:56 ***
 Input File - E:\KRCC\Modeling\KRCC_89_CO1.DTA

Output File - E:\KRCC\Modeling\KRCC_89_CO1.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	140.88135	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	125.51841	ON 89121621:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	229.79526	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	205.22519	ON 89121621:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	246.12378	ON 89121621:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	225.50810	ON 89031419:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	265.46524	ON 89110707:	AT (323000.00, 3930250.00, 374.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	225.50810	ON 89031419:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	328.04126	ON 89110707:	AT (323000.00, 3930250.00, 374.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	229.79526	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 15:38:40 ***
 Input File - E:\KRCC\KRCC_90_CO1.DTA

Output File - E:\KRCC\KRCC_90_CO1.LST

   Met File - E:\KRCC\MetData\BFL90.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF CO1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	143.87721	ON 90033020:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	142.62843	ON 90010118:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	237.08539	ON 90033020:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	234.09814	ON 90010118:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	252.98518	ON 90033020:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	249.07997	ON 90022507:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	252.98518	ON 90033020:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	249.96019	ON 90102405:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	311.38544	ON 90021120:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	310.85626	ON 90102405:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:08:02 ***
 Input File - E:\KRCC\Modeling\KRCC_86_CO8.DTA

Output File - E:\KRCC\Modeling\KRCC_86_CO8.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85700E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85700E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85700E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85700E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85700E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85700E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85700E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85700E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85700E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85700E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO8 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	18.94392m	ON 86082908:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	12.75853m	ON 86052424:	AT (328000.00, 3928750.00, 441.80, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	30.87966m	ON 86082908:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.79086m	ON 86120324:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	32.82595m	ON 86082908:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	20.10281m	ON 86120324:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	32.82595m	ON 86082908:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	23.99303m	ON 86121524:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	32.82595m	ON 86082908:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	30.87966m	ON 86082908:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:16:30 ***
 Input File - E:\KRCC\Modeling\KRCC_87_CO8.DTA

Output File - E:\KRCC\Modeling\KRCC_87_CO8.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85700E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85700E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85700E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85700E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85700E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85700E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85700E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85700E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85700E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85700E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO8 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	22.16303m	ON 87080908:	AT (328000.00, 3928750.00, 441.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	12.01936b	ON 87122524:	AT (326250.00, 3929500.00, 386.10, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	30.02909m	ON 87080908:	AT (327000.00, 3928750.00, 392.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	19.41392m	ON 87092808:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	34.49139m	ON 87080908:	AT (321750.00, 3928250.00, 329.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	20.68709m	ON 87092808:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	42.04238m	ON 87080908:	AT (326250.00, 3929250.00, 371.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	23.59569b	ON 87122524:	AT (325000.00, 3929500.00, 382.80, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	51.96748m	ON 87080908:	AT (326250.00, 3929250.00, 371.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	29.27445b	ON 87122524:	AT (325000.00, 3929500.00, 382.80, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:25:36 ***
 Input File - E:\KRCC\Modeling\KRCC_88_CO8.DTA

Output File - E:\KRCC\Modeling\KRCC_88_CO8.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85700E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85700E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85700E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85700E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85700E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85700E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85700E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85700E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85700E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85700E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO8 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	18.19244m	ON 88021024:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	12.60202m	ON 88091108:	AT (318000.00, 3930250.00, 360.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	29.09982m	ON 88021024:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	19.34056m	ON 88091108:	AT (318000.00, 3930250.00, 360.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	31.33937m	ON 88021024:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.52941b	ON 88090308:	AT (317500.00, 3930250.00, 348.90, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	37.71846m	ON 88021024:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	20.19785m	ON 88051008:	AT (317750.00, 3929500.00, 338.80, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	41.54649m	ON 88021024:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	21.75584m	ON 88051008:	AT (317750.00, 3929500.00, 338.80, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:34:57 ***
 Input File - E:\KRCC\Modeling\KRCC_89_CO8.DTA

Output File - E:\KRCC\Modeling\KRCC_89_CO8.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85700E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85700E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85700E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85700E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85700E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85700E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85700E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85700E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85700E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85700E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO8 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	13.19141m	ON 89092708:	AT (328000.00, 3928750.00, 441.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	10.16339m	ON 89121624:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	18.69261b	ON 89091408:	AT (318000.00, 3930250.00, 360.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	16.61735m	ON 89121624:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	19.92896m	ON 89121624:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.25968b	ON 89031424:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	24.81509m	ON 89092708:	AT (327000.00, 3928750.00, 392.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.25968b	ON 89031424:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	29.16477m	ON 89092708:	AT (327000.00, 3928750.00, 392.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.74141m	ON 89091324:	AT (327500.00, 3928500.00, 396.60, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 15:48:34 ***
 Input File - E:\KRCC\KRCC_90_CO8.DTA

Output File - E:\KRCC\KRCC_90_CO8.LST

   Met File - E:\KRCC\MetData\BFL90.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85700E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85700E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85700E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85700E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85700E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85700E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85700E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85700E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85700E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85700E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 8-HR RESULTS ***

** CONC OF CO8 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	15.30990m	ON 90021024:	AT (322250.00, 3929500.00, 363.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	11.54881m	ON 90010124:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	24.12607m	ON 90021024:	AT (322250.00, 3929500.00, 363.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	18.95522m	ON 90010124:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	29.83125m	ON 90021024:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	20.16833b	ON 90022508:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	29.83125m	ON 90021024:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	23.94922m	ON 90021124:	AT (320250.00, 3929000.00, 346.30, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	32.81382m	ON 90102408:	AT (320250.00, 3929000.00, 346.30, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	27.21202m	ON 90021124:	AT (320250.00, 3929000.00, 346.30, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 10:16:17 ***
 Input File - E:\KRCC\KRCC_86_NOX1.DTA

Output File - E:\KRCC\KRCC_86_NOX1.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	234.94258	ON 86021416:	AT (319844.09, 3924953.25, 238.90, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	141.79581	ON 86120320:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	239.76303	ON 86082905:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	232.06825	ON 86120320:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	255.48677	ON 86082905:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	248.27087	ON 86120320:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	255.48677	ON 86082905:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	248.27087	ON 86120320:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	305.48944	ON 86121518:	AT (323000.00, 3930500.00, 367.40, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	250.00961	ON 86122021:	AT (323000.00, 3930500.00, 367.40, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 10:25:52 ***
 Input File - E:\KRCC\KRCC_87_NOX1.DTA

Output File - E:\KRCC\KRCC_87_NOX1.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	145.01711	ON 87092806:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	144.07870	ON 87041605:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	239.76303	ON 87092806:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	237.56181	ON 87041605:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	255.48677	ON 87092806:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	253.43103	ON 87041605:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	255.48677	ON 87092806:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	253.43103	ON 87041605:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	307.04056	ON 87011607:	AT (323250.00, 3930000.00, 365.20, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	270.39035	ON 87122518:	AT (325500.00, 3929750.00, 390.80, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 10:35:33 ***
 Input File - E:\KRCC\KRCC_88_NOX1.DTA

Output File - E:\KRCC\KRCC_88_NOX1.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	142.62843	ON 88021021:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	133.35760	ON 88051006:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	234.09814	ON 88021021:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	210.23340	ON 88051006:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	220.93198	ON 88021021:	AT (317500.00, 3930250.00, 348.90, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	220.93198	ON 88021021:	AT (317500.00, 3930250.00, 348.90, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	250.18243	ON 88021021:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	244.84930	ON 88112806:	AT (326250.00, 3929250.00, 371.90, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 10:45:37 ***
 Input File - E:\KRCC\KRCC_89_NOX1.DTA

Output File - E:\KRCC\KRCC_89_NOX1.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX1 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	140.88135	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	125.51841	ON 89121621:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	229.79526	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	205.22519	ON 89121621:	AT (320750.00, 3929500.00, 361.70, 0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	246.12378	ON 89121621:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	225.50810	ON 89031419:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	265.46524	ON 89110707:	AT (323000.00, 3930250.00, 374.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	225.50810	ON 89031419:	AT (318750.00, 3928000.00, 322.30, 0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	328.04126	ON 89110707:	AT (323000.00, 3930250.00, 374.80, 0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	229.79526	ON 89121621:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 09:43:39 ***
 Input File - E:\KRCC\KRCC_90_NOX.DTA

Output File - E:\KRCC\KRCC_90_NOX.LST

   Met File - E:\KRCC\MetData\BFL90.asc

     Number of sources -          10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.17640E+02	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.17640E+02	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.17640E+02	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.17640E+02	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.17640E+02	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.17640E+02	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.17640E+02	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.17640E+02	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.17640E+02	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.17640E+02	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF NOX1 IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH	1ST HIGH VALUE IS	143.87721	ON 90033020:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	142.62843	ON 90010118:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
COMBINED	HIGH	1ST HIGH VALUE IS	237.08539	ON 90033020:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	234.09814	ON 90010118:	AT (320500.00, 3929250.00, 364.70, 0.00)	DC	NA
SYCAMORE	HIGH	1ST HIGH VALUE IS	252.98518	ON 90033020:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	249.07997	ON 90022507:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
SMPLCMLT	HIGH	1ST HIGH VALUE IS	252.98518	ON 90033020:	AT (318000.00, 3929500.00, 345.10, 0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	249.96019	ON 90102405:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	311.38544	ON 90021120:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	310.85626	ON 90102405:	AT (323750.00, 3930000.00, 372.00, 0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 10:54:55 ***
 Input File - E:\KRCC\KRCC_86_NOXA.DTA

Output File - E:\KRCC\KRCC_86_NOXA.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85600E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85600E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85600E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85600E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85600E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85600E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85600E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85600E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85600E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85600E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE 1ST HIGHEST VALUE IS	0.60493 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
2ND HIGHEST VALUE IS	0.59610 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
3RD HIGHEST VALUE IS	0.57214 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
4TH HIGHEST VALUE IS	0.56381 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
5TH HIGHEST VALUE IS	0.56265 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
6TH HIGHEST VALUE IS	0.55291 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
7TH HIGHEST VALUE IS	0.55176 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
8TH HIGHEST VALUE IS	0.55014 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
9TH HIGHEST VALUE IS	0.54933 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
10TH HIGHEST VALUE IS	0.54679 AT	(322750.00, 3923000.00, 203.00, 0.00)	DC	NA
COMBINED 1ST HIGHEST VALUE IS	1.09445 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
2ND HIGHEST VALUE IS	1.08641 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
3RD HIGHEST VALUE IS	1.08582 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
4TH HIGHEST VALUE IS	1.08470 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
5TH HIGHEST VALUE IS	1.06565 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
6TH HIGHEST VALUE IS	1.05617 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
7TH HIGHEST VALUE IS	1.04157 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
8TH HIGHEST VALUE IS	1.03940 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	1.03880	AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.01724	AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	1.36723	AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.33955	AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.30030	AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.29717	AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.29112	AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.28646	AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.27933	AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.27112	AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.25819	AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.25537	AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	1.57746	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.50668	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.45908	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.44397	AT (323500.00,	3920000.00,	257.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.42714	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.40410	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.40354	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.39763	AT (324000.00,	3919750.00,	257.90,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.38721	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.38664	AT (325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	1.91720	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.87044	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.83038	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.80969	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.79785	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.78730	AT (325250.00,	3920750.00,	267.90,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.77127	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.74914	AT (323500.00,	3920000.00,	257.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.70283	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.69412	AT (324000.00,	3919750.00,	257.90,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 11:03:15 ***
 Input File - E:\KRCC\KRCC_87_NOXA.DTA

Output File - E:\KRCC\KRCC_87_NOXA.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85600E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85600E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85600E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85600E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85600E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85600E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85600E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85600E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85600E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85600E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.67320 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.62530 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.61762 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.59822 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.59079 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.59067 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.59030 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.58762 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.58663 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.58059 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	1.19992 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.16901 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.11541 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.11254 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.10677 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.08958 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.06687 AT	(322000.00, 3923250.00, 194.70, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.05829 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	1.05660 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.04605 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	1.44021 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.39171 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.39144 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.38945 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.35877 AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.35288 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.35127 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.34047 AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.33910 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.33068 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	1.61525 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.57067 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.56245 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.54767 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.51231 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.51002 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.47870 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.47742 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.46706 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.45870 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	2.00198 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.95563 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.94687 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.91227 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.90506 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.82212 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.82079 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.82001 AT (	324750.00,	3920500.00,	255.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.81220 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.80007 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA

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*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 11:12:11 ***
 Input File - E:\KRCC\KRCC_88_NOXA.DTA

Output File - E:\KRCC\KRCC_88_NOXA.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85600E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85600E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85600E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85600E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85600E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85600E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85600E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85600E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85600E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85600E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.82441 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.71249 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.68173 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.66240 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.64461 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.63952 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.62555 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.62283 AT	(325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.62000 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.61897 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	1.45948 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.35798 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.18655 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.17047 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.14946 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.14578 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.14180 AT	(322500.00, 3923500.00, 220.40, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.13272 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	1.13202	AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.11800	AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	1.51401	AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.47682	AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.45188	AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.43969	AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.42394	AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.41714	AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.38897	AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.38486	AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.37823	AT (	319000.00,	3924200.00,	220.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.36832	AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	1.79745	AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.74173	AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.73973	AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.73573	AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.71668	AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.64071	AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.63715	AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.62921	AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	1.60369	AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.60141	AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	2.28618	AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	2.27222	AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	2.22654	AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	2.18051	AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	2.17698	AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	2.16812	AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	2.06752	AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	2.02941	AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	2.01498	AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	1.99656	AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 11:21:29 ***
 Input File - E:\KRCC\KRCC_89_NOXA.DTA

Output File - E:\KRCC\KRCC_89_NOXA.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85600E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85600E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85600E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85600E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85600E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85600E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85600E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85600E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85600E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85600E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.72016 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.65728 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.62163 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.61898 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.60880 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.59958 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.59943 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.59630 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.58488 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.58055 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	1.25997 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.16729 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.13116 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.12596 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.12134 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.11436 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.09689 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.09337 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA

9TH HIGHEST VALUE IS	1.07227	AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.05519	AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE 1ST HIGHEST VALUE IS	1.44888	AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.42543	AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.39625	AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.38980	AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.38417	AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.37564	AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.35202	AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.35148	AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.34927	AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.34557	AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	1.69255	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.61686	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.59793	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.56523	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.55953	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.54373	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.54048	AT (323500.00,	3920000.00,	257.60,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.53544	AT (325250.00,	3920750.00,	267.90,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.52062	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.50463	AT (325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	2.08092	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	2.00639	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.98610	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.98370	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.96607	AT (325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.93245	AT (325000.00,	3922250.00,	279.70,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.89857	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.86436	AT (325000.00,	3922000.00,	277.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.84109	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.83160	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 09:54:46 ***
 Input File - E:\KRCC\KRCC_90_NOXA.DTA

Output File - E:\KRCC\KRCC_90_NOXA.LST

   Met File - E:\KRCC\MetData\BFL90.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.85600E+01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.85600E+01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.85600E+01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.85600E+01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.85600E+01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.85600E+01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.85600E+01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.85600E+01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.85600E+01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.85600E+01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.75619 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.66572 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.65471 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.61971 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.61769 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.61641 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.61283 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.59460 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.57871 AT	(325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.57654 AT	(324750.00, 3920500.00, 255.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	1.34560 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	1.26529 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	1.13967 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	1.09336 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	1.07160 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	1.06906 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	1.06591 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	1.06590 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA

9TH HIGHEST VALUE IS	1.06544 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.05680 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
SYCAMORE 1ST HIGHEST VALUE IS	1.39728 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.39615 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.33608 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.32634 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.32465 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.31992 AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.31181 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.30008 AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.29866 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.29434 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF NOXA IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	1.71215 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	1.68235 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	1.64089 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
4TH HIGHEST VALUE IS	1.63574 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	1.60831 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	1.58383 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
7TH HIGHEST VALUE IS	1.57663 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.54898 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.54844 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.53616 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	2.16732 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	2.09607 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
3RD HIGHEST VALUE IS	2.08834 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	2.08326 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
5TH HIGHEST VALUE IS	2.05968 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	2.03513 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
7TH HIGHEST VALUE IS	2.01262 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
8TH HIGHEST VALUE IS	1.93058 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	1.92731 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	1.92155 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:43:40 ***
 Input File - E:\KRCC\Modeling\KRCC_86_PM.DTA

Output File - E:\KRCC\Modeling\KRCC_86_PM.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E+00	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E+00	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E+00	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E+00	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E+00	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E+00	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E+00	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E+00	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E+00	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E+00	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.04452 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.04387 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.04211 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.04150 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.04141 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.04069 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.04061 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.04049 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.04043 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.04024 AT	(322750.00, 3923000.00, 203.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.08055 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.07996 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.07991 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.07983 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.07843 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.07773 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.07666 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.07650 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.07645 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.07487 AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.10063 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.09859 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.09570 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.09547 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.09502 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.09468 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.09416 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.09355 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.09260 AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.09239 AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	0.11610 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.11089 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.10739 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.10627 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.10503 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.10334 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.10330 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.10286 AT (	324000.00,	3919750.00,	257.90,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.10210 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.10205 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	0.14110 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.13766 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.13471 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.13319 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.13232 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.13154 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.13036 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.12873 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.12533 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.12468 AT (	324000.00,	3919750.00,	257.90,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.73321m	ON 86021424: AT (	319844.09,	3924953.25,	238.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.33459b	ON 86111124: AT (	320000.00,	3929500.00,	350.00,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.75668m	ON 86082924: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.55076b	ON 86111124: AT (	320000.00,	3929500.00,	350.00,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.80437m	ON 86082924: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.58882b	ON 86111124: AT (	317250.00,	3930750.00,	348.10,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.81747b	ON 86012424: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.58882b	ON 86111124: AT (	317250.00,	3930750.00,	348.10,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	0.83620b	ON 86012424: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.75668m	ON 86082924: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 13:52:37 ***
 Input File - E:\KRCC\Modeling\KRCC_87_PM.DTA

Output File - E:\KRCC\Modeling\KRCC_87_PM.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E+00	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E+00	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E+00	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E+00	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E+00	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E+00	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E+00	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E+00	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E+00	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E+00	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE 1ST HIGHEST VALUE IS	0.04955 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
2ND HIGHEST VALUE IS	0.04602 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
3RD HIGHEST VALUE IS	0.04546 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
4TH HIGHEST VALUE IS	0.04403 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
5TH HIGHEST VALUE IS	0.04348 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
6TH HIGHEST VALUE IS	0.04347 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
7TH HIGHEST VALUE IS	0.04345 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
8TH HIGHEST VALUE IS	0.04325 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
9TH HIGHEST VALUE IS	0.04317 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
10TH HIGHEST VALUE IS	0.04273 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
COMBINED 1ST HIGHEST VALUE IS	0.08831 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
2ND HIGHEST VALUE IS	0.08604 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
3RD HIGHEST VALUE IS	0.08209 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
4TH HIGHEST VALUE IS	0.08188 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
5TH HIGHEST VALUE IS	0.08146 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
6TH HIGHEST VALUE IS	0.08019 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
7TH HIGHEST VALUE IS	0.07852 AT	(322000.00, 3923250.00, 194.70, 0.00)	DC	NA
8TH HIGHEST VALUE IS	0.07789 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.07776 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.07699 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.10600 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.10243 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.10241 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.10226 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.10000 AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.09957 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.09945 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.09866 AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.09856 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.09794 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	0.11888 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.11560 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.11499 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.11391 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.11130 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.11113 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.10883 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.10874 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.10797 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.10736 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	0.14734 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.14393 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.14329 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.14074 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.14021 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.13410 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.13401 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.13395 AT (	324750.00,	3920500.00,	255.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.13337 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.13248 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.55890m	ON 87080924: AT (	328000.00,	3928750.00,	441.80,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.41207b	ON 87011424: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.77097m	ON 87080924: AT (	327000.00,	3928750.00,	392.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.61946b	ON 87011424: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.85442m	ON 87080924: AT (	321750.00,	3928250.00,	329.10,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.62246b	ON 87011424: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	1.06883m	ON 87080924: AT (	326500.00,	3928750.00,	368.20,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.63336b	ON 87122524: AT (	325000.00,	3929500.00,	382.80,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	1.33079m	ON 87080924: AT (	326500.00,	3928750.00,	368.20,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.78057b	ON 87122524: AT (	325000.00,	3929500.00,	382.80,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:02:20 ***
 Input File - E:\KRCC\Modeling\KRCC_88_PM.DTA

Output File - E:\KRCC\Modeling\KRCC_88_PM.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E+00	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E+00	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E+00	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E+00	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E+00	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E+00	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E+00	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E+00	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E+00	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E+00	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.06068 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.05244 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.05017 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.04875 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.04744 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.04707 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.04604 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.04584 AT	(325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.04563 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.04556 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.10741 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.09994 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.08733 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.08614 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.08460 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.08433 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.08403 AT	(322500.00, 3923500.00, 220.40, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.08337 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.08331 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.08228 AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.11143 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.10869 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.10686 AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.10596 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.10480 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.10430 AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.10223 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.10192 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.10144 AT (	319000.00,	3924200.00,	220.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.10071 AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	0.13229 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.12819 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.12804 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.12775 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.12634 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.12075 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.12049 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.11991 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.11803 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.11786 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	0.16826 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.16723 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.16387 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.16048 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.16022 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.15957 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.15217 AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.14936 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.14830 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.14694 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.47710b	ON 88021024: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.30880m	ON 88091124: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.76718b	ON 88021024: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.47392m	ON 88091124: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.82841b	ON 88021024: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.47745b	ON 88080424: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	1.00377b	ON 88021024: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.49858m	ON 88051024: AT (	317750.00,	3929500.00,	338.80,	0.00)	DC	NA
CURRCMLT HIGH 1ST HIGH VALUE IS	1.11691b	ON 88021024: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.53677m	ON 88051024: AT (	317750.00,	3929500.00,	338.80,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:12:13 ***
 Input File - E:\KRCC\Modeling\KRCC_89_PM.DTA

Output File - E:\KRCC\Modeling\KRCC_89_PM.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E+00	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E+00	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E+00	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E+00	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E+00	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E+00	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E+00	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E+00	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E+00	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E+00	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.05300	AT (325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.04837	AT (325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.04575	AT (325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.04556	AT (325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.04481	AT (325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.04413	AT (325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.04412	AT (322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.04389	AT (322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.04305	AT (322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.04273	AT (325250.00, 3921750.00, 272.30, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.09273	AT (325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.08591	AT (325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.08325	AT (322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.08287	AT (322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.08253	AT (325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.08201	AT (322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.08073	AT (322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.08047	AT (322250.00, 3923500.00, 212.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.07892 AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.07766 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.10663 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.10491 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.10276 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.10229 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.10187 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.10124 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.09951 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.09947 AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.09930 AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.09903 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	0.12457 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.11900 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.11760 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.11520 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.11478 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.11362 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.11338 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.11301 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.11191 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.11074 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	0.15315 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.14767 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.14617 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.14600 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.14470 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.14222 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.13973 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.13721 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.13550 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.13480 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.40519m	ON 89122024: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.31121b	ON 89122524: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.64651m	ON 89122024: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.47746b	ON 89091424: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.80121m	ON 89020824: AT (	316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.47033m	ON 89050724: AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.80135m	ON 89020824: AT (	316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.48871m	ON 89121624: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	0.80138m	ON 89020824: AT (	316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.61824b	ON 89010224: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 15:57:53 ***
 Input File - E:\KRCC\KRCC_90_PM.DTA

Output File - E:\KRCC\KRCC_90_PM.LST

   Met File - E:\KRCC\MetData\BFL90.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E+00	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E+00	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E+00	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E+00	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E+00	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E+00	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E+00	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E+00	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E+00	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E+00	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.05565	AT (325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.04900	AT (325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.04819	AT (325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.04561	AT (325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.04546	AT (325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.04537	AT (325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.04510	AT (325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.04376	AT (325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.04259	AT (325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.04243	AT (324750.00, 3920500.00, 255.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.09903	AT (325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.09312	AT (325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.08388	AT (325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.08047	AT (322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.07887	AT (325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.07868	AT (325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.07845	AT (322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.07845	AT (322000.00, 3923500.00, 209.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.07841 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.07778 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.10284 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.10275 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.09833 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.09762 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.09749 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.09714 AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.09655 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.09568 AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.09558 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.09526 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	0.12601 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.12382 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.12077 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.12039 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.11837 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.11657 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.11604 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.11400 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.11396 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.11306 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	0.15951 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.15427 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.15370 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.15332 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.15159 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.14978 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.14813 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.14209 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.14185 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.14142 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.40076b	ON 90021024: AT (	322250.00,	3929500.00,	363.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.28299b	ON 90010124: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.64306b	ON 90021024: AT (	322250.00,	3929500.00,	363.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.46448b	ON 90010124: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.78244b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.49900b	ON 90080224: AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.87206b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.58685b	ON 90021124: AT (	320250.00,	3929000.00,	346.30,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	0.93560b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.66681b	ON 90021124: AT (	320250.00,	3929000.00,	346.30,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:20:56 ***
 Input File - E:\KRCC\Modeling\KRCC_86_SO2.DTA

Output File - E:\KRCC\Modeling\KRCC_86_SO2.LST

   Met File - E:\KRCC\MetData\BFL86.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
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*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E-01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E-01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E-01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E-01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E-01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E-01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E-01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E-01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E-01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.00445 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00439 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00421 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00415 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00414 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00407 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00406 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00405 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00404 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00402 AT	(322750.00, 3923000.00, 203.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.00805 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00800 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00799 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00798 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00784 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00777 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00767 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00765 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA

9TH HIGHEST VALUE IS	0.00765 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.00749 AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
SYCAMORE 1ST HIGHEST VALUE IS	0.01006 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.00986 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.00957 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.00955 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.00950 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.00947 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.00942 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.00936 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.00926 AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.00924 AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	0.01161 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01109 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01074 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01063 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01050 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01033 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01033 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01029 AT (	324000.00,	3919750.00,	257.90,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01021 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01021 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	0.01411 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01377 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01347 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01332 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01323 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01315 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01304 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01287 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01253 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01247 AT (	324000.00,	3919750.00,	257.90,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.83908	ON 86021416: AT (	319844.09,	3924953.25,	238.90,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.50641	ON 86120320: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.85630	ON 86082905: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.82882	ON 86120320: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.91245	ON 86082905: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.88668	ON 86120320: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.91245	ON 86082905: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.88668	ON 86120320: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
CURRCMLT HIGH 1ST HIGH VALUE IS	1.09103	ON 86121518: AT (	323000.00,	3930500.00,	367.40,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.89289	ON 86122021: AT (	323000.00,	3930500.00,	367.40,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.43992	ON 86021418: AT (	319844.09,	3924953.25,	238.90,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.16880	ON 86120321: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.38910	ON 86103118: AT (	320250.00,	3929500.00,	356.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.27627	ON 86120321: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.47775c	ON 86012421: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.29556	ON 86120321: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.47775c	ON 86012421: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA

	HIGH	2ND HIGH VALUE IS	0.29556	ON 86120321:	AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.47775c	ON 86012421:	AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.39173	ON 86103118:	AT (	320250.00,	3929500.00,	356.10,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH	1ST HIGH VALUE IS	0.07332m	ON 86021424:	AT (319844.09,	3924953.25,	238.90,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.03346b	ON 86111124:	AT (320000.00,	3929500.00,	350.00,	0.00)	DC	NA
COMBINED	HIGH	1ST HIGH VALUE IS	0.07567m	ON 86082924:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.05508b	ON 86111124:	AT (320000.00,	3929500.00,	350.00,	0.00)	DC	NA
SYCAMORE	HIGH	1ST HIGH VALUE IS	0.08044m	ON 86082924:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.05888b	ON 86111124:	AT (317250.00,	3930750.00,	348.10,	0.00)	DC	NA
SMPLCMLT	HIGH	1ST HIGH VALUE IS	0.08175b	ON 86012424:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.05888b	ON 86111124:	AT (317250.00,	3930750.00,	348.10,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.08362b	ON 86012424:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.07567m	ON 86082924:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA

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*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:31:05 ***
 Input File - E:\KRCC\Modeling\KRCC_87_SO2.DTA

Output File - E:\KRCC\Modeling\KRCC_87_SO2.LST

   Met File - E:\KRCC\MetData\BFL87.asc

      Number of sources -        10
Number of source groups -         5
    Number of receptors -      7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E-01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E-01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E-01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E-01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E-01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E-01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E-01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E-01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E-01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.00495 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00460 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00455 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00440 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00435 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00435 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00434 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00432 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00432 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00427 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.00883 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00860 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00821 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00819 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00815 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00802 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00785 AT	(322000.00, 3923250.00, 194.70, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00779 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.00778 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00770 AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.01060 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.01024 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.01024 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.01023 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.01000 AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00996 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00995 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00987 AT (	319000.00,	3923800.00,	204.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00986 AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00979 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT	1ST HIGHEST VALUE IS	0.01189 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.01156 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.01150 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.01139 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.01113 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.01111 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.01088 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.01087 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.01080 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.01074 AT (	323500.00,	3920000.00,	257.60,	0.00)	DC	NA
CURRCMLT	1ST HIGHEST VALUE IS	0.01473 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.01439 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.01433 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.01407 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.01402 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.01341 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.01340 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.01339 AT (	324750.00,	3920500.00,	255.00,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.01334 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.01325 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.51792	ON 87092806: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.51457	ON 87041605: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.85630	ON 87092806: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.84844	ON 87041605: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.91245	ON 87092806: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.90511	ON 87041605: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.91245	ON 87092806: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.90511	ON 87041605: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	1.09657	ON 87011607: AT (	323250.00,	3930000.00,	365.20,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.96568	ON 87122518: AT (	325500.00,	3929750.00,	390.80,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.25272m	ON 87080906: AT (	328000.00,	3928750.00,	441.80,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.18250m	ON 87080906: AT (	326250.00,	3929500.00,	386.10,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.35339	ON 87011421: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.28543m	ON 87092806: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.41058	ON 87122518: AT (	320750.00,	3928500.00,	348.70,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.30415m	ON 87092806: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.47925m	ON 87080906: AT (	326250.00,	3929250.00,	371.90,	0.00)	DC	NA

	HIGH	2ND HIGH VALUE IS	0.34328	ON 87122518:	AT (	325500.00,	3929750.00,	390.80,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.59589m	ON 87080906:	AT (	326250.00,	3929250.00,	371.90,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.41763	ON 87122518:	AT (	325500.00,	3929750.00,	390.80,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)		RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH	1ST HIGH VALUE IS	0.05589m	ON 87080924:	AT (	328000.00,	3928750.00,	441.80,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04121b	ON 87011424:	AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED	HIGH	1ST HIGH VALUE IS	0.07710m	ON 87080924:	AT (	327000.00,	3928750.00,	392.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.06195b	ON 87011424:	AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH	1ST HIGH VALUE IS	0.08544m	ON 87080924:	AT (	321750.00,	3928250.00,	329.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.06225b	ON 87011424:	AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT	HIGH	1ST HIGH VALUE IS	0.10688m	ON 87080924:	AT (	326500.00,	3928750.00,	368.20,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.06334b	ON 87122524:	AT (	325000.00,	3929500.00,	382.80,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.13308m	ON 87080924:	AT (	326500.00,	3928750.00,	368.20,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.07806b	ON 87122524:	AT (	325000.00,	3929500.00,	382.80,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:42:16 ***
 Input File - E:\KRCC\Modeling\KRCC_88_SO2.DTA

Output File - E:\KRCC\Modeling\KRCC_88_SO2.LST

   Met File - E:\KRCC\MetData\BFL88.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E-01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E-01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E-01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E-01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E-01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E-01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E-01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E-01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E-01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.00607 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00524 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00502 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00488 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00474 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00471 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00460 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00458 AT	(325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00456 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00456 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.01074 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00999 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00873 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00861 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00846 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00843 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00840 AT	(322500.00, 3923500.00, 220.40, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00834 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA

9TH HIGHEST VALUE IS	0.00833 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.00823 AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
SYCAMORE 1ST HIGHEST VALUE IS	0.01114 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01087 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01069 AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01060 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01048 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01043 AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01022 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01019 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01014 AT (	319000.00,	3924200.00,	220.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01007 AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	0.01323 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01282 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01280 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01277 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01263 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01208 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01205 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01199 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01180 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01179 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	0.01683 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01672 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01639 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01605 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01602 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01596 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01522 AT (	325250.00,	3921500.00,	268.20,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01494 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01483 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01469 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.50939	ON 88021021: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.47628	ON 88051006: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.83606	ON 88021021: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.75083	ON 88051006: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.89351	ON 88021021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.78904	ON 88021021: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.89351	ON 88021021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.78904	ON 88021021: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
CURRCMLT HIGH 1ST HIGH VALUE IS	0.89351	ON 88021021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.87446	ON 88112806: AT (	326250.00,	3929250.00,	371.90,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.18528m	ON 88091106: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.18152m	ON 88100406: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.28435m	ON 88091106: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.27467m	ON 88100406: AT (	318000.00,	3930250.00,	360.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.29784	ON 88021021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.26301	ON 88021021: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.39162	ON 88021021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA

	HIGH	2ND HIGH VALUE IS	0.27243b	ON 88090306:	AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.44791	ON 88021021:	AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.29149m	ON 88112806:	AT (	326250.00,	3929250.00,	371.90,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH	1ST HIGH VALUE IS	0.04771b	ON 88021024:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.03088m	ON 88091124:	AT (318000.00,	3930250.00,	360.70,	0.00)	DC	NA
COMBINED	HIGH	1ST HIGH VALUE IS	0.07672b	ON 88021024:	AT (320500.00,	3929250.00,	364.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04739m	ON 88091124:	AT (318000.00,	3930250.00,	360.70,	0.00)	DC	NA
SYCAMORE	HIGH	1ST HIGH VALUE IS	0.08284b	ON 88021024:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04775b	ON 88080424:	AT (317500.00,	3930250.00,	348.90,	0.00)	DC	NA
SMPLCMLT	HIGH	1ST HIGH VALUE IS	0.10038b	ON 88021024:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04986m	ON 88051024:	AT (317750.00,	3929500.00,	338.80,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.11169b	ON 88021024:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.05368m	ON 88051024:	AT (317750.00,	3929500.00,	338.80,	0.00)	DC	NA

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*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 14:53:45 ***
 Input File - E:\KRCC\Modeling\KRCC_89_SO2.DTA

Output File - E:\KRCC\Modeling\KRCC_89_SO2.LST

   Met File - E:\KRCC\MetData\BFL89.asc

      Number of sources -          10
Number of source groups -           5
    Number of receptors -        7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E-01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E-01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E-01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E-01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E-01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E-01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E-01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E-01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E-01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.00530 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00484 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00458 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00456 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00448 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00441 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00441 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00439 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00430 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00427 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.00927 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00859 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00833 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00829 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00825 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00820 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00807 AT	(322250.00, 3923250.00, 200.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00805 AT	(322250.00, 3923500.00, 212.50, 0.00)	DC	NA

9TH HIGHEST VALUE IS	0.00789	AT (	322000.00,	3923250.00,	194.70,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.00777	AT (	322750.00,	3923000.00,	203.00,	0.00)	DC	NA
SYCAMORE 1ST HIGHEST VALUE IS	0.01066	AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01049	AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01028	AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01023	AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01019	AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01012	AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.00995	AT (	318900.00,	3924000.00,	210.00,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.00995	AT (	318900.00,	3923800.00,	206.30,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.00993	AT (	318800.00,	3924100.00,	213.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.00990	AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	0.01246	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01190	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01176	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01152	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01148	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01136	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01134	AT (323500.00,	3920000.00,	257.60,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01130	AT (325250.00,	3920750.00,	267.90,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01119	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01107	AT (325250.00,	3919250.00,	263.10,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	0.01532	AT (325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01477	AT (323750.00,	3920250.00,	263.70,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01462	AT (325000.00,	3920750.00,	262.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01460	AT (325000.00,	3920500.00,	264.90,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01447	AT (325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01422	AT (325000.00,	3922250.00,	279.70,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01397	AT (323500.00,	3920250.00,	259.10,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01372	AT (325000.00,	3922000.00,	277.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01355	AT (325500.00,	3919250.00,	267.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01348	AT (323750.00,	3920000.00,	259.50,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.50315	ON 89121621: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.44828	ON 89121621: AT (	320750.00,	3929500.00,	361.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.82070	ON 89121621: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.73295	ON 89121621: AT (	320750.00,	3929500.00,	361.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.87901	ON 89121621: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.80539	ON 89031419: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.94809	ON 89110707: AT (	323000.00,	3930250.00,	374.80,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.80539	ON 89031419: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
CURRCMLT HIGH 1ST HIGH VALUE IS	1.17158	ON 89110707: AT (	323000.00,	3930250.00,	374.80,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.82070	ON 89121621: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.19395m	ON 89092706: AT (	328000.00,	3928750.00,	441.80,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.15382	ON 89101509: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.27357	ON 89121621: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.24436	ON 89101509: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.29300	ON 89121621: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.26846c	ON 89031421: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.36484m	ON 89092706: AT (	327000.00,	3928750.00,	392.70,	0.00)	DC	NA

	HIGH	2ND HIGH VALUE IS	0.26846c	ON 89031421:	AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.42879m	ON 89092706:	AT (	327000.00,	3928750.00,	392.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.27554m	ON 89091321:	AT (	327500.00,	3928500.00,	396.60,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID			AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH	1ST HIGH VALUE IS	0.04052m	ON 89122024:	AT (317500.00,	3930250.00,	348.90,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.03112b	ON 89122524:	AT (318000.00,	3930250.00,	360.70,	0.00)	DC	NA
COMBINED	HIGH	1ST HIGH VALUE IS	0.06465m	ON 89122024:	AT (317500.00,	3930250.00,	348.90,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04775b	ON 89091424:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SYCAMORE	HIGH	1ST HIGH VALUE IS	0.08012m	ON 89020824:	AT (316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04703m	ON 89050724:	AT (319100.00,	3924000.00,	219.50,	0.00)	DC	NA
SMPLCMLT	HIGH	1ST HIGH VALUE IS	0.08013m	ON 89020824:	AT (316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.04887m	ON 89121624:	AT (318000.00,	3929500.00,	345.10,	0.00)	DC	NA
CURRCMLT	HIGH	1ST HIGH VALUE IS	0.08014m	ON 89020824:	AT (316750.00,	3925500.00,	261.70,	0.00)	DC	NA
	HIGH	2ND HIGH VALUE IS	0.06182b	ON 89010224:	AT (317500.00,	3930250.00,	348.90,	0.00)	DC	NA

```
*** ISCST3 - VERSION 02035 ***
*** KRCC Simple Cycle                                                    ***
*** Model Executed on 12/08/03 at 16:07:24 ***
 Input File - E:\KRCC\KRCC_90_SO2.DTA

Output File - E:\KRCC\KRCC_90_SO2.LST

   Met File - E:\KRCC\MetData\BFL90.asc

      Number of sources -         10
Number of source groups -          5
    Number of receptors -       7684
```

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BUILDING EXISTS	EMISSION RATE SCALAR VARY BY
KRSSC	0	0.63000E-01	319961.1	3924757.2	259.0	14.20	824.83	24.90	5.36	YES	
KRSSD	0	0.63000E-01	319957.9	3924714.0	258.0	14.20	824.83	24.90	5.36	YES	
KRCCA	0	0.63000E-01	319995.9	3924835.8	255.6	19.38	408.16	27.80	3.66	YES	
KRCCB	0	0.63000E-01	319992.9	3924792.5	256.1	19.38	408.16	27.80	3.66	YES	
KRCCC	0	0.63000E-01	319989.3	3924749.0	258.4	19.38	408.16	27.80	3.66	YES	
KRCCD	0	0.63000E-01	319986.3	3924705.5	258.4	19.38	408.16	27.80	3.66	YES	
SYCA	0	0.63000E-01	317196.1	3925079.2	241.7	19.38	408.16	27.80	3.66	NO	
SYCB	0	0.63000E-01	317239.3	3925079.2	238.0	19.38	408.16	27.80	3.66	NO	
SYCC	0	0.63000E-01	317281.5	3925079.2	230.1	19.38	408.16	27.80	3.66	NO	
SYCD	0	0.63000E-01	317324.4	3925079.2	219.6	19.38	408.16	27.80	3.66	NO	

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
SIMPLE	KRSSC , KRSSD , KRCCC , KRCCD ,
COMBINED	KRCCA , KRCCB , KRCCC , KRCCD ,
SYCAMORE	SYCA , SYCB , SYCC , SYCD ,
SMPLCMLT	KRSSC , KRSSD , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,
CURRCMLT	KRCCA , KRCCB , KRCCC , KRCCD , SYCA , SYCB , SYCC , SYCD ,

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	1ST HIGHEST VALUE IS	0.00557 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00490 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00482 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00456 AT	(325250.00, 3921750.00, 272.30, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00455 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00454 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00451 AT	(325000.00, 3920750.00, 262.60, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00438 AT	(325250.00, 3921500.00, 268.20, 0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00426 AT	(325250.00, 3922000.00, 272.20, 0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00424 AT	(324750.00, 3920500.00, 255.00, 0.00)	DC	NA
COMBINED	1ST HIGHEST VALUE IS	0.00990 AT	(325000.00, 3922250.00, 279.70, 0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.00931 AT	(325000.00, 3922000.00, 277.60, 0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00839 AT	(325000.00, 3921000.00, 271.30, 0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00805 AT	(322500.00, 3923250.00, 214.00, 0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00789 AT	(325000.00, 3920500.00, 264.90, 0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00787 AT	(325250.00, 3920750.00, 267.90, 0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00784 AT	(322500.00, 3923000.00, 205.30, 0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00784 AT	(322000.00, 3923500.00, 209.50, 0.00)	DC	NA

	9TH HIGHEST VALUE IS	0.00784 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00778 AT (	325250.00,	3921750.00,	272.30,	0.00)	DC	NA
SYCAMORE	1ST HIGHEST VALUE IS	0.01028 AT (	319100.00,	3924000.00,	219.50,	0.00)	DC	NA
	2ND HIGHEST VALUE IS	0.01028 AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
	3RD HIGHEST VALUE IS	0.00983 AT (	318900.00,	3924100.00,	217.30,	0.00)	DC	NA
	4TH HIGHEST VALUE IS	0.00976 AT (	319000.00,	3924000.00,	213.10,	0.00)	DC	NA
	5TH HIGHEST VALUE IS	0.00975 AT (	318800.00,	3924000.00,	213.10,	0.00)	DC	NA
	6TH HIGHEST VALUE IS	0.00971 AT (	319100.00,	3924100.00,	220.40,	0.00)	DC	NA
	7TH HIGHEST VALUE IS	0.00965 AT (	318750.00,	3924000.00,	213.10,	0.00)	DC	NA
	8TH HIGHEST VALUE IS	0.00957 AT (	319000.00,	3924100.00,	216.50,	0.00)	DC	NA
	9TH HIGHEST VALUE IS	0.00956 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
	10TH HIGHEST VALUE IS	0.00953 AT (	319100.00,	3923900.00,	208.00,	0.00)	DC	NA

*** THE SUMMARY OF MAXIMUM PERIOD (8760 HRS) RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SMPLCMLT 1ST HIGHEST VALUE IS	0.01260 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01238 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01208 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01204 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01184 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01166 AT (	323500.00,	3920250.00,	259.10,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01160 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01140 AT (	325250.00,	3919250.00,	263.10,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01140 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01131 AT (	323750.00,	3920000.00,	259.50,	0.00)	DC	NA
CURRCMLT 1ST HIGHEST VALUE IS	0.01595 AT (	325000.00,	3921000.00,	271.30,	0.00)	DC	NA
2ND HIGHEST VALUE IS	0.01543 AT (	325000.00,	3920500.00,	264.90,	0.00)	DC	NA
3RD HIGHEST VALUE IS	0.01537 AT (	325000.00,	3920750.00,	262.60,	0.00)	DC	NA
4TH HIGHEST VALUE IS	0.01533 AT (	325000.00,	3922250.00,	279.70,	0.00)	DC	NA
5TH HIGHEST VALUE IS	0.01516 AT (	325250.00,	3920750.00,	267.90,	0.00)	DC	NA
6TH HIGHEST VALUE IS	0.01498 AT (	325000.00,	3922000.00,	277.60,	0.00)	DC	NA
7TH HIGHEST VALUE IS	0.01481 AT (	323750.00,	3920250.00,	263.70,	0.00)	DC	NA
8TH HIGHEST VALUE IS	0.01421 AT (	325750.00,	3919500.00,	264.60,	0.00)	DC	NA
9TH HIGHEST VALUE IS	0.01418 AT (	325250.00,	3920250.00,	258.30,	0.00)	DC	NA
10TH HIGHEST VALUE IS	0.01414 AT (	325500.00,	3919250.00,	267.30,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.51385	ON 90033020: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.50939	ON 90010118: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.84673	ON 90033020: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.83606	ON 90010118: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.90352	ON 90033020: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.88957	ON 90022507: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.90352	ON 90033020: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.89271	ON 90102405: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA
CURRCMLT HIGH 1ST HIGH VALUE IS	1.11209	ON 90021120: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	1.11020	ON 90102405: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 3-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
SIMPLE HIGH 1ST HIGH VALUE IS	0.17128	ON 90033021: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.16980	ON 90010118: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED HIGH 1ST HIGH VALUE IS	0.28224	ON 90033021: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.27869	ON 90010118: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE HIGH 1ST HIGH VALUE IS	0.30117	ON 90033021: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
HIGH 2ND HIGH VALUE IS	0.29652	ON 90022509: AT (	318000.00,	3929500.00,	345.10,	0.00)	DC	NA
SMPLCMLT HIGH 1ST HIGH VALUE IS	0.32779	ON 90102409: AT (	317500.00,	3930250.00,	348.90,	0.00)	DC	NA

	HIGH 2ND HIGH VALUE IS	0.29757m	ON 90102406: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	0.37070	ON 90021121: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.37007m	ON 90102406: AT (	323750.00,	3930000.00,	372.00,	0.00)	DC	NA

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF SO2 IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR,	YR,	ZELEV,	ZFLAG)	OF TYPE	NETWORK GRID-ID
SIMPLE	HIGH 1ST HIGH VALUE IS	0.04008b	ON 90021024: AT (	322250.00,	3929500.00,	363.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.02830b	ON 90010124: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
COMBINED	HIGH 1ST HIGH VALUE IS	0.06431b	ON 90021024: AT (	322250.00,	3929500.00,	363.90,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.04645b	ON 90010124: AT (	320500.00,	3929250.00,	364.70,	0.00)	DC	NA
SYCAMORE	HIGH 1ST HIGH VALUE IS	0.07824b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.04990b	ON 90080224: AT (	319000.00,	3923900.00,	214.70,	0.00)	DC	NA
SMPLCMLT	HIGH 1ST HIGH VALUE IS	0.08721b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.05869b	ON 90021124: AT (	320250.00,	3929000.00,	346.30,	0.00)	DC	NA
CURRCMLT	HIGH 1ST HIGH VALUE IS	0.09356b	ON 90021024: AT (	318750.00,	3928000.00,	322.30,	0.00)	DC	NA
	HIGH 2ND HIGH VALUE IS	0.06668b	ON 90021124: AT (	320250.00,	3929000.00,	346.30,	0.00)	DC	NA

APPENDIX B

APPLICATION TO EPA TO MODIFY PSD PERMIT

D. Stein

Kern River Cogeneration Company | Box 80478, Bakersfield, CA 93380 • (661) 392-2630

Neil E. Burgess, Executive Director

VIA FEDERAL EXPRESS:

December 15, 2003

KR-8577

Mr. Bob Baker
Air-3
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, CA 94105

Re: **Kern River Cogeneration Company (NSR 4-4-8, SJ 84-01)**
Request for Approval to Amend PSD Permit to Include Simple Cycle Operation

Dear Mr. Baker:

This request for a minor modification to Kern River Cogeneration Company's (KRCC,) PSD permit (NSR 4-4-8, SJ 84-01) is a follow up to the meeting we had with you on October 31, 2003. Accordingly, KRCC is hereby submitting a request to modify the current PSD permit to allow two of the four gas turbine units (Units 3 and 4) to be operated in simple cycle mode. The power host has requested that one of the two units be operated in simple cycle mode beginning in April 2004 and the second in the fourth quarter '04.

Background

KRCC is a cogeneration facility located in the Kern River oilfield near Bakersfield, CA. The facility employs four (4) General Electric Frame 7EA combustion turbines (CTs) and four (4) unfired heat recovery steam generators (HRSGs) to cogenerate 300 MW (nominal rating) of electricity and 1.8 million pounds per hour of steam (nominal) for enhanced oil recovery. Each CT/HRSG generates approximately ¼ of the total steam and electricity output. Each CT is equipped with Dry Low NOx (DLN) combustor technology capable of meeting the current PSD NOx limit of 16.4 ppmv at 15% O2, dry and a CO emissions limit of 25 ppmv at 15% O2, dry.

As a result of gradually declining steam demand and negotiations regarding the KRCC electricity contract, it has been determined that one of the four KRCC CT units must be able to operate in simple cycle mode as soon as April 1, 2004 and a second in the fourth quarter of '04. As a result, KRCC is requesting this modification to the PSD permit.

Description of Simple Cycle Operation for Units 3 and 4

No additional physical construction is needed to facilitate the conversion of Units 3 and 4 to simple cycle operation. Each CT discharges to a HRSG through a transition section that is equipped with a gas-tight bypass stack. In order to operate in simple cycle, the bypass stack damper would be repositioned to block off the HRSG, directing the CT exhaust through the bypass stack to the atmosphere. Since the DLN operation is unaffected by the positioning of the bypass damper, the change to simple cycle operation will not impact the current air pollution control system that has been previously determined to represent Best Available Control Technology (BACT). As a result, during simple cycle operations we do not anticipate any change in normal CT emission rates.

The current KRCC permit is based on a continuous, 24-hr day operation. While KRCC does not propose to specifically restrict its operating schedule in the future, it is anticipated that the power host will operate the two units in simple cycle on a dispatch schedule that is anticipated to be substantially fewer hours than historical operations. At the present time, we envision that the simple cycle units would operate in response to peak power demands occurring during the normal work week, Monday through Friday, and would not operate on weekends or holidays. Instead of a 24-hr operation, it is more likely that these two units would ultimately operate for no more than a 6 to 8 hr/day. However, to be conservative, projected actual emissions have been calculated assuming the equivalent of a 24 hr/day operation, 5 days per week. We also anticipate that the units will operate more frequently in the summer peak power period, June through September, and less during the off-peak period of the year, October through May. The addition of simple cycle operation will increase the number of startups and shutdowns for the affected CT. Although emissions are higher during startups and shutdowns, KRCC will not be increasing either permitted maximum daily or maximum annual emissions.

Redirection of the CT exhaust through the existing bypass stack will also cause a substantial increase in stack gas temperature and a minor decrease in exit velocity, improving stack gas dispersion overall. These changes have a positive impact on ambient dispersion and will lower overall air quality

impacts at the same emission rate. Attachment B includes SCREEN3 model results demonstrating that operation of Units 3 & 4 in simple cycle mode will reduce the normalized concentration impact (ug/m3 per g/sec of emissions) by approximately 65%.

Proposed Emissions Changes Are Not Significant

Since the proposed amendment constitutes a change in the method of operation, we have completed an evaluation of the applicability of PSD regulations. Pursuant to 40 CFR 52.21 (a) (2) (iv) (c), existing units are to calculate emissions increases based on an "actual to projected actual" applicability test. The test involves summing the difference between *projected actual emissions* and *baseline actual emissions* as defined in 40 CFR 52.21 (b) (41) and (b) (48), respectively. As specified in 40 CFR 52.21 (b) (48) (i), for an existing electric utility steam generating unit, *baseline actual emissions* is the average rate in tons per year (tpy) at which the unit actually emitted during any consecutive 24-month period within the last five years. The attached calculations demonstrate that the impact of the proposed simple cycle addition to Units 3 and 4 is not considered to be significant under PSD regulations and does not require additional PSD analysis.

- Baseline Actual Emissions

For NOx and CO, the reported baseline emissions reflect actual continuous emissions monitoring system (CEMS) data collected for the period Nov 2001 – Oct 2003. For VOC, SO2 and PM10 baseline emissions were calculated using continuously recorded fuel consumption in conjunction with emissions factors from source tests and fuel sulfur content from monthly fuel analyses over the same period. Historical testing has demonstrated that VOC emissions are below detection limits. Therefore, baseline VOC emissions are reported as negligible.

- Projected Actual Emissions

Projected actual emissions for NOx and CO emission during normal operation were calculated based on the average CEMS-based emission factors in lb/MMBtu observed during the baseline period and a maximum fuel consumption of 1020 MMBtu/hr (LHV.) Startup and shutdown NOx and CO emissions were based on the current startup and shutdown limit in the SJVACPD Permit to Operate of 140 lb/hr. The calculation is summarized in Table 1, below. In fact, for most of the criteria air contaminants, KRCC anticipates a decrease in emissions. Projected actual VOC, SO2 and PM10

emissions during normal operation were calculated using the source test or fuel analysis based emission factors from the baseline period and maximum fuel consumption. Since no test data are available to estimate projected actual VOC emissions during startup and shutdown, we applied the AP-42 Table 3.1-2a emission factor for natural gas-fired combustion turbines and a conservative safety factor of 10 to account for potentially higher startup and shutdown VOC emissions.

Although KRCC anticipates that Unit 3 and Unit 4 will typically operate no more than 6 to 8 hr/day, 5 days/wk, 52 wks/yr, we have conservatively based projected actual emissions on 22 hr/day, 5 days/wk, 52 wks/yr. We have assumed that each day of operation would include up to 2 startups lasting ½ hour each and 2 shutdowns lasting ½ hour each. These operating assumptions yield a conservative total of 5720 normal hr/yr of operation and 520 startup/shutdown hr/yr for each unit.

- PSD Applicability Summary

Detailed calculations based on the above assumptions is included in Attachment A. The results of these calculations are summarized for Units 3 and 4 in Table 1, below. These calculations demonstrate that the proposed operations change is not subject to full PSD review.

Table 1. Summary of PSD Applicability Review

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions, ton/yr	265.00	105.38	11.14	1.07	15.85
Baseline Actual Emissions, ton/yr	250.01	33.37	0.00	1.20	17.72
Net change, ton/yr	14.99	72.01	11.14	-0.13	-1.87
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

Request for Minor Change to Existing PSD Permit Condition

We have reviewed the current PSD permit limits and have concluded that a very minor change is needed to accommodate simple cycle operation for Units 3 and 4. The current PSD permit limits CO emissions to 44 lb/hr on a 3-hour basis (Special Condition E.). While KRCC is confident that we can continue to comply with this CO emission limit during normal operation (80% to full load), we note that the condition does not provide specific emission relief

during either startups or shutdowns. Historically, these units have experienced only infrequent startups and shutdowns, which have been addressed through the excess emissions reporting requirement of the permit. Since we now anticipate that there will be much more frequent startups and shutdowns, it is appropriate to specifically address this mode of operation in the PSD permit. We therefore request that EPA add a new condition that specifically limits startup and shutdown emissions and amend the current condition. We are requesting a startup and shutdown CO emission limit of 140 lb/hr on a 2-hr average basis to make the PSD permit consistent with the current conditions in the San Joaquin Valley APCD Permit to Operate and the California Energy Commission license. We recommend the following Section X. Special Conditions, Part E changes (noted in ***bold, italic underline***):

E. Emission Limits for CO

1. On and after the date of startup, KRCC shall not discharge or cause the discharge of CO into the atmosphere from any of the four turbines governed by this permit in excess of the more stringent of 44 lbs/hr or 25 ppm corrected to 15% O2 and averaged over a 3-hour period***, except as specified in Special Condition E.2. (during startups and shutdowns).***

2. During startups and shutdowns, KRCC shall not discharge or cause the discharge of CO into the atmosphere from any of the four turbines governed by this permit in excess of the more stringent of 140 lbs/hr averaged over a 2-hour period. A startup shall be defined as the period commencing with fuel flow to the turbine and ending when emissions are in compliance with Condition E.1. A shutdown shall be defined as the period commencing with the cessation of fuel flow to the turbine and ending when emissions are no longer detected by the continuous emissions monitoring system. Startups and shutdowns shall not exceed two hours in duration.

Summary

KRCC is requesting that the PSD permit be modified to specifically address the addition of simple cycle operation for Units 3 and 4. Based on our analysis, the request does not trigger a full PSD review. However, a minor change in the PSD permit is needed to specifically address emissions during startups and shutdowns.

KRCC's addition of simple cycle operation to the PSD permit is on a critical path. Based on our initial discussions with you regarding these proposed changes, we understand that EPA will be able to respond to this request in a few weeks time. We respectfully request your help in expediting the approval of this minor PSD permit modification as expeditiously as possible.

If you have any questions, please contact either Mervyn Soares at (661) 392-2643 or our consultant, David Stein of URS at (510) 874-3143. Thank you for your prompt consideration.

Neil E Burgess

MAS: yh

Attachments

xc: D. Stein – URS-Oakland (w/attachments)

ATTACHMENT A

Supporting Emissions Calculations and Historical Operating Data

PSD Applicability Summary, tons/yr

	NOx	CO	VOC	SO2	PM10
Projected Actual Emissions, ton/yr	265.00	105.38	11.14	1.07	15.85
Baseline Actual Emissions, ton/yr	250.01	33.37	0.00	1.20	17.72
Net change, ton/yr	14.99	72.01	11.14	-0.13	-1.87
PSD significance thresholds	40	100	40	40	15
PSD Review Triggered?	No	No	No	No	No

Projected Actual Emissions (ton/yr)

	NOx	CO	VOC	SO2	PM10
Unit 3, startups & shutdowns	36.40	36.40	5.57	0.04	0.66
Unit 3, normal operation	96.10	16.29	negligible	0.49	7.26
Unit 4, startups & shutdowns	96.10	16.29	5.57	0.04	0.66
Unit 4, normal operations	36.40	36.40	negligible	0.49	7.26
Total	265.00	105.38	11.14	1.07	15.85

		Comment
Average CO Emission Factor, lb/MMBtu	0.00558	Average of Nov 01 - Oct 03
Average NOx Emission Factor, lb/MMBtu	0.0329	Average of Nov 01 - Oct 04
Projected Maximum Normal Operating Hours/Day	22	Average maximum daily hours over the year
Projected Maximum Normal Operating Hours/Year	5720	5 days/wk, 52 wk/yr
Projected Maximum Startup & Shutdown Operating Hours/Year	520	260 operating days, (2) 0.5 hr starts and (2) 0.5 hr stops per day
Projected Maximum Heat Input, MMBtu/hr	1020	Unchanged
Projected Maximum Startup & Shutdown NOx & CO Emissions, lb/hr	140	
Estimated VOC Emission Factor for Startup/Shutdown	2.10E-02	10 times EPA AP-42 Table 3.1-2a factor for gas-fired turbines

Baseline Actual Emissions

Historical Average Hourly Emission Rates (lb/hr), Nov 2001 - Oct 2003

	NOx	CO	VOC	SO2	PM10	Comment
Unit 3	31.54	3.55	negligible	0.14	2.10	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM10
Unit 4	27.70	4.64	negligible	0.14	2.09	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM11

Historical Average Daily Emission Rates (lb/day), Nov 2001 - Oct 2003

	NOx	CO	VOC	SO2	PM10	Comment
Unit 3	749.14	81.97	negligible	3.31	49.11	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM10
Unit 4	654.75	105.68	negligible	3.24	48.01	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM11

Historical Annual Average Emission Rates (ton/year), Nov 2001 - Oct 2003

	NOx	CO	VOC	SO2	PM10	Comment
Unit 3	134.28	14.69	negligible	0.60	8.96	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM10
Unit 4	115.73	18.68	negligible	0.59	8.76	CEMS data - NOx & CO, Source Test Data/Historical Fuel Consumption - VOC, SO2 & PM11
Total	250.01	33.37	0.00	1.20	17.72	

Emission Factors for VOC, SO2 and PM10

			Comment
Maximum Fuel Gas Rate:	1020	MMBtu/hr (LHV)	
VOC Emission Factor:	negligible	lb/MMBtu(LHV)	based on compliance tests
Average S content:	0.06	gr/100 scf	based on monthly fuel S tests
Fuel Heat Content, avg:	1020	Btu/scf (LHV)	based on monthly fuel tests
SO2 Emission Factor:	0.000168	lb/MMBtu(LHV)	
PM Emission Factor:	0.00249	lb/MMBtu(LHV)	based on compliance tests

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Nov01	1	496.1595	856.2971191	3.385542	14.87643	1.32879376	1.301488638	0.003214509	2.755222797	66.12535	9.525399208	9.330060005	0.03785491	32.4163628	777.9926758	24	20551.13086
	2	497.6347	858.8433838	3.376005	14.89342	1.42943001	1.403677106	0.0034669	2.978821278	71.49171	9.51474762	9.346143723	0.037920166	32.5674057	781.6176758	24	20612.24121
	3	497.1814	858.0610352	3.38071	14.88503	1.61496544	1.582986593	0.003909771	3.357275009	80.5746	9.283901215	9.106669426	0.036948558	31.7052994	760.9271851	24	20593.46484
	4	494.1733	852.8692017	3.384653	14.87802	1.44500959	1.415358305	0.003495749	2.981744051	71.56186	9.238591194	9.051577568	0.036725033	31.321846	751.7243042	24	20468.86084
	5	491.7667	848.7157593	3.350387	14.93899	0.89849722	0.887508035	0.002192029	1.860100031	42.7823	9.206613541	9.113010406	0.036974285	31.3733177	721.5863037	24	20369.17822
	6	493.819	852.2575684	3.369644	14.90472	1.01766038	0.998673618	0.00246659	2.104125023	50.499	9.243519783	9.099235535	0.036918391	31.4706078	755.2946167	24	20454.18164
	7	499.7387	862.4752808	3.367737	14.90812	1.07012475	1.053054452	0.002600908	2.24395299	53.85487	9.430484772	9.286150932	0.037676778	32.4969177	779.9260254	24	20699.40674
	8	498.0742	859.6019287	3.358071	14.92533	1.53197408	1.510692	0.003731213	3.209085941	77.01806	9.296462059	9.181300163	0.037251368	32.0221176	768.5308228	24	20630.44629
	9	496.5829	857.0274048	3.364365	14.91413	1.12481451	1.109646916	0.002740682	2.355553389	56.53328	9.521900177	9.385967255	0.038081758	32.6381035	783.3145142	24	20568.65772
	10	494.7919	853.9360962	3.356225	14.9286	0.85279256	0.842037201	0.002079722	1.771515369	42.51637	9.454968452	9.341813087	0.037902612	32.3783379	777.0800781	24	20494.46631
	11	492.1259	849.336853	3.376577	14.89238	1.41257918	1.386423349	0.003424283	2.910508633	69.85221	8.922211647	8.762404442	0.035551772	30.1963749	724.7130127	24	20384.08447
	12	493.3627	851.47052	3.362994	14.91657	0.94892985	0.935262084	0.002309978	1.967126489	45.24391	9.217230797	9.088875771	0.036876369	31.407856	722.3806763	24	20435.29248
	13	500.1037	863.105835	3.357371	14.92657	1.06535626	1.052173734	0.002598735	2.241840839	53.80418	9.284537315	9.170433998	0.037207268	32.1132584	770.7182007	24	20714.54004
	14	498.9372	861.0906372	3.361759	14.91877	1.26599336	1.24857986	0.00308383	2.658889532	63.81335	9.370071411	9.242910385	0.037501331	32.2920075	775.0081787	24	20666.17529
	15	496.3187	856.5722656	3.365065	14.91288	1.77299511	1.745556951	0.004311298	3.687988758	88.51173	9.462601662	9.325427055	0.037836131	32.4108124	777.8594971	24	20557.73437
	16	492.4859	849.9579468	3.385925	14.87575	1.89143956	1.854815006	0.004581147	3.897837162	93.54809	9.263233185	9.073303223	0.036813185	31.2923622	751.0167236	24	20398.99072
	17	107.437	494.453125	2.028386	11.48553	18.0725403	94.33091736	0.232984647	16.39455605	147.551	6.11433363	7.421804428	0.030112499	19.8434486	178.5910339	7.380556	3649.339031
	18	501.2854	865.1446533	3.394764	14.86003	1.75105631	1.71062839	0.004225028	3.656018734	87.74445	9.734781265	9.509279251	0.038582072	33.3793831	801.1052246	24	20763.47168
	19	501.6513	865.7751465	3.376333	14.89282	1.63259089	1.602571249	0.003958142	3.428698778	78.86007	9.262025833	9.095135689	0.036901757	31.9530296	734.9196777	24	20778.60352
	20	502.5688	867.3588257	3.349613	14.94037	1.47315121	1.457282901	0.003599301	3.124725342	74.99341	8.700299263	8.610594749	0.034935825	30.3348732	697.7020874	24	20816.61182
	21	500.7198	864.1678467	3.344525	14.94942	1.25438845	1.24275434	0.003069442	2.656870365	63.76489	10.64559555	10.55638313	0.042830527	37.0091095	888.2186279	24	20740.02832
	22	498.8048	860.8631592	3.369519	14.90495	1.30255961	1.28036952	0.003162348	2.726009607	65.42423	10.12413788	9.968459129	0.040445115	34.8026085	835.2625732	24	20660.71582
	23	505.1266	871.7730103	3.370217	14.9037	1.3671087	1.343446612	0.003318137	2.896537542	69.5169	10.07611752	9.915866852	0.04023172	35.0673218	841.6157227	24	20922.55225
	24	499.1402	861.4416504	3.362331	14.91773	1.01400435	1.000826597	0.00247191	2.133038044	51.19291	10.30251694	10.16426182	0.041239541	35.5256615	852.6159058	24	20674.59961
	25	512.1266	883.8539429	3.384399	14.87847	1.44803119	1.418614984	0.003503795	3.097400427	74.33761	10.27785873	10.07028389	0.040858217	36.1128235	866.7078247	24	21212.49463
	26	514.0467	887.1680298	3.349612	14.94037	1.36615408	1.350094199	0.003334558	2.961406708	71.07376	10.26245022	10.16079044	0.041225456	36.5725136	877.7402954	24	21292.03272
	27	516.4504	891.3167114	3.333678	14.96872	1.70350456	1.694555044	0.004185329	3.729315519	82.04494	10.29092693	10.23684502	0.041534003	36.9988556	813.9747925	24	21391.60107
	28	510.4372	880.9381104	3.3261	14.9822	1.72814763	1.723272562	0.00425626	3.760858774	86.49975	10.45546913	10.42498302	0.042297333	37.283577	857.5222778	24	21142.51465
	29	500.4286	863.6652222	3.340455	14.95666	1.94565308	1.912757397	0.00472426	4.089452267	98.14686	10.29471684	10.22824955	0.041499164	35.8340302	860.0167236	24	20727.96533
	30	506.0251	873.3234253	3.370537	14.90314	1.65312088	1.617494106	0.003995	3.492484808	83.81963	9.99217701	9.831979752	0.039891377	34.8375206	836.1005249	24	20959.76221
Dec01	01	505.0445	871.6307373	3.34052	14.95655	0.85263437	0.846265316	0.002090164	1.82227695	43.73465	10.15402699	10.08088493	0.040901273	35.6575279	855.7807007	24	20919.1377
	02	440.5881	793.449707	3.091322	14.03688	1.33181965	1.402204514	0.003463261	2.775906563	63.84585	9.590506554	10.08705997	0.040926304	33.0100517	759.2312012	23	18249.34326
	03															0	0
	04															0	0
	05															0	0
	06															0	0
	07															0	0
	08															0	0
	09															0	0
	10															0	0
	11	161.5575	836.4736328	3.230882	15.1516	14.6319895	27.82637787	0.068727516	20.12494659	160.9996	11.3696003	11.76172447	0.047720939	39.3709488	314.9675903	7.9	6608.141779
	12	517.1558	892.5354004	3.371489	14.90145	1.15820241	1.13928616	0.00281389	2.511244535	60.26987	11.8041172	11.60904598	0.047101442	42.0461006	1009.106384	24	21420.84961
	13	514.544	888.0263062	3.342171	14.9536	1.08824944	1.078992248	0.00266497	2.369557381	56.86938	11.67454624	11.58439541	0.047001462	41.7347908	1001.63501	24	21312.63135
	14	513.9203	886.9500732	3.341218	14.9553	0.915115	0.908506393	0.002243893	1.9904809	47.77154	12.08488369	11.99392891	0.048663154	43.16465	1035.95166	24	21286.80176
	15	518.0873	894.1426392	3.382681	14.88153	0.95470196	0.93557328	0.002310744	2.068352938	49.64047	11.9053793	11.67135429	0.047354266	42.3445244	1016.268616	24	21459.42334
	16	516.3354	891.1176758	3.381601	14.88346	1.00812185	0.988447189	0.002441336	2.1760571	52.22537	11.44957924	11.22701645	0.045551427	40.5982666	974.3583984	24	21386.82422
	17	506.8821	874.8027344	3.371171	14.90201	0.88681579	0.872060359	0.002153875	1.886391282	45.27339	11.2680254	11.08503342	0.044975396	39.3515511	944.4371948	24	20995.26563
	18	511.0463	881.9904785	3.385798	14.87597	1.10303617	1.080213428	0.002667981	2.354030371	56.49673	10.96578312	10.74000454	0.043575551	38.4340515	922.4171753	24	21167.77148
	19	507.7836	876.3578491	3.382107	14.88254	1.19047654	1.166524291	0.002881162	2.532329082	60.7759	11.25784969	11.03837109	0.04478604	39.2386246	941.7269897	24	21032.58838
	20	462.9397	798.960083	3.124873	14.03397	1.81735003	4.080681801	0.01007876	3.679265976	88.30238	10.88407612	11.0909853	0.044999521	37.4219704	898.1272583	24	19175.04199
	21	508.412	877.4436035	3.420965	14.81343	0.86360383	0.836933434	0.002067115	1.814512968	43.54831	11.38901234	11.04061699	0.044795167	39.3036652	943.2880249	24	21058.64648
	22	505.1621	871.8347168	3.411806	14.82969	0.87250656	0.847094178	0.002092212	1.827635407	43.86325	11.35578346	11.03820038	0.044785418	39.0403175	936.9675903	24	20924.0332
	23	509.4142	879.1741943	3.410218	14.83253	0.97107702	0.943956196	0.002331448	2.051011562	49.22428	11.09886265	10.79268742	0.043789301	38.4979095	923.9498291	24	21100.18066

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	512.4343	884.3850098	3.401284	14.84844	0.99753815	0.972350001	0.002401577	2.12437439	48.86061	11.12272644	10.84407425	0.043997742	38.9009171	894.7211304	24	21225.24023
	25	511.4945	882.7634277	3.401697	14.84769	1.09667635	1.068887949	0.002640013	2.331432104	55.95437	11.08869171	10.81112099	0.043864064	38.7272301	929.4534912	24	21186.32227
	26	515.192	889.1451416	3.425226	14.80583	1.2272017	1.187902093	0.002933962	2.609797478	62.63514	11.38217545	11.01966286	0.044710129	39.755043	954.1210327	24	21339.4834
	27	503.6539	869.2315674	3.402333	14.84655	0.95629132	0.931006551	0.002299465	2.003875494	48.09301	11.40713787	11.11779213	0.045108266	39.214489	941.1477051	24	20861.55762
	28	496.9976	857.7432861	3.399724	14.85122	0.86519361	0.843160689	0.002082495	1.788269997	42.91848	11.17660809	10.90464973	0.0442435	37.9458466	910.7003174	24	20585.83887
	29	497.1234	857.9613647	3.422174	14.81128	0.94882005	0.919264555	0.002270465	1.94931829	46.78364	10.94591236	10.60694599	0.043035664	36.921917	886.1259766	24	20591.07275
	30	497.6973	858.9523926	3.419438	14.81612	0.96551377	0.936027229	0.002311866	1.986865878	47.68478	10.80601215	10.47984123	0.042519964	36.521492	876.5158081	24	20614.85742
	31	496.7631	857.3403931	3.392857	14.86341	0.98411435	0.961395979	0.002374522	2.03704834	48.88916	10.7477169	10.50515842	0.042622644	36.541523	876.996521	24	20576.16943
Jan02	01	496.6814	857.197998	3.380647	14.88516	0.89333344	0.876260877	0.00216425	1.85651958	44.55647	10.96245861	10.75451279	0.043634385	37.4024658	897.6591797	24	20572.75195
	02	497.5535	858.7012329	3.389422	14.86953	0.92847019	0.907740235	0.002242	1.926445365	46.23469	10.94910049	10.71396255	0.04346982	37.3245277	895.7886963	24	20608.82959
	03	503.7664	869.4260254	3.414289	14.82529	1.1237036	1.091113329	0.002694908	2.343092442	56.23422	10.59281635	10.28820801	0.041742384	36.293129	871.0350952	24	20866.22461
	04	511.6566	883.0430298	3.398962	14.85255	1.2702862	1.239167929	0.003060583	2.702955008	64.87092	10.82954979	10.56563377	0.042868067	37.8553276	908.5278931	24	21193.03271
	05	511.9148	883.4890137	3.392601	14.86387	1.29636085	1.26701045	0.00312935	2.765927792	66.38227	10.77961636	10.53626633	0.042748921	37.7739296	906.5742798	24	21203.73633
	06	505.0469	871.6355591	3.384208	14.8788	1.323228	1.296184182	0.003201405	2.792524576	67.02059	10.74734974	10.53152084	0.042729668	37.247776	893.9465942	24	20919.25342
	07	500.4972	863.7838135	3.382829	14.88126	1.29418623	1.268323302	0.003132593	2.706930876	64.96634	10.43235016	10.22728539	0.041495264	35.8468132	860.3234863	24	20730.81152
	08	504.3238	870.3886108	3.391966	14.865	1.34310031	1.313335061	0.003243765	2.826569557	67.83767	10.59281254	10.35698032	0.04202145	36.5757446	877.8178711	24	20889.32666
	09	500.8959	864.4713135	3.382046	14.88266	1.09778833	1.075948	0.00265745	2.299119473	55.17887	10.78932095	10.5790081	0.042922333	37.1056175	890.53479	24	20747.31152
	10	501.3324	865.2252197	3.385734	14.8761	1.10065055	1.078026295	0.002662584	2.303895473	55.29349	10.49123287	10.27546215	0.041690744	36.0721817	865.7324219	24	20765.40527
	11	509.9917	880.1699829	3.400869	14.84915	1.41512036	1.379598737	0.003407431	2.99999547	71.99989	10.43781662	10.17763329	0.04129377	36.3470154	872.3284302	24	21124.07959
	12	516.9092	892.1085815	3.400933	14.84905	1.51893795	1.480889201	0.003657604	3.262970924	78.3113	10.75085449	10.48342514	0.042534493	37.9459877	910.7037354	24	21410.60596
	13	516.9643	892.2033691	3.367165	14.90913	1.43467629	1.412798762	0.003489425	3.1136024	74.72646	11.31270027	11.14181232	0.045205712	40.3306427	967.9354248	24	21412.88086
	14	517.5385	893.194397	3.344636	14.94924	1.32037306	1.308839083	0.00323266	2.887158155	66.40464	11.38205624	11.28486061	0.045786157	40.8867188	940.3945313	24	21436.66553
	15	514.2884	887.5854492	3.355844	14.92927	1.27807665	1.263077974	0.003119632	2.769388437	66.46532	11.06451702	10.93390465	0.044362225	39.3756599	945.0158081	24	21302.05078
	16	515.28	889.2971191	3.380266	14.88583	1.35852206	1.332716227	0.003291633	2.928958416	70.295	10.89536667	10.68977928	0.043371744	38.5738068	925.7714233	24	21343.13086
	17	511.2693	882.3748169	3.368691	14.90642	1.28141463	1.260121226	0.003112334	2.751852036	66.04445	10.81825829	10.65084553	0.0432138	38.1221581	914.9318237	24	21176.99561
	18	510.5437	881.1228638	3.358389	14.92475	1.3183012	1.301047087	0.003213415	2.833547115	68.00513	10.66053295	10.52699566	0.042711295	37.6313057	903.1513062	24	21146.94873
	19	510.5027	881.0516357	3.345798	14.94717	1.23276639	1.221608043	0.003017211	2.661279917	63.87072	10.96435833	10.86709976	0.044091165	38.847805	932.34729	24	21145.23926
	20	508.1105	876.9221191	3.367354	14.90881	1.14786744	1.129801035	0.00279046	2.451225519	58.82941	11.10331631	10.93450832	0.044364713	38.9018326	933.6439819	24	21046.13086
	21	504.8546	871.3035278	3.293928	15.03944	0.9155767	0.920239687	0.002272871	1.979576826	43.55069	11.48763657	11.56988621	0.046942592	40.8413239	898.5090942	24	20911.28467
	22	513.1783	885.6699829	3.25136	15.11517	1.00971067	1.030226231	0.002544524	2.254626989	54.11105	11.56945419	11.80087948	0.047879774	42.4044304	1017.706299	24	21256.07959
	23	517.0624	892.3742065	3.307323	15.0156	1.23817182	1.241754055	0.003066972	2.73892951	65.73431	11.1001339	11.13479137	0.045177273	40.3215141	967.7163086	24	21416.98096
	24	511.9619	883.5695801	3.310693	15.00962	1.26026988	1.260337472	0.003112868	2.756139994	66.14736	10.84051704	10.85963345	0.044060864	38.9257507	934.2180176	24	21205.66992
	25	505.8104	872.9536133	3.260963	15.0981	1.05502105	1.072415709	0.002648727	2.314385891	55.54526	10.86675835	11.05058384	0.044835594	39.1403809	939.3690796	24	20950.88672
	26	503.994	869.8195801	3.266177	15.0888	1.13530815	1.152515411	0.002846564	2.479572773	59.50975	11.07151699	11.24144554	0.045609999	39.6762238	952.2293701	24	20875.66992
	27	411.0191	773.8451538	2.917082	13.80992	2.11923695	4.331877708	0.010699178	4.14571476	91.20573	10.00510311	10.4684639	0.04247376	35.583992	782.8477783	21.60556	16719.35518
	28	516.503	891.4068604	3.300328	15.02806	1.09890151	1.103655934	0.002725888	2.430702925	58.33687	11.29728699	11.35617352	0.046075504	41.0704727	944.6209106	24	21393.76465
	29	524.8904	905.8822021	3.32303	14.98766	1.27998376	1.27731204	0.003154791	2.858273268	68.59856	11.10697079	11.08559608	0.044977661	40.7437096	977.848999	24	21741.17285
	30	520.5362	898.3671875	3.337976	14.96107	1.2105087	1.201981068	0.002968736	2.669201612	64.06084	10.85211658	10.78166294	0.043744568	39.295929	943.1022949	24	21560.8125
	31	518.2864	894.4840698	3.322649	14.98833	1.23276663	1.229685426	0.003037163	2.719960451	65.27905	10.72032547	10.69907475	0.04340947	38.8305359	931.9329224	24	21467.61768
Feb02	01	515.4008	889.5056763	3.300328	15.02805	1.24309981	1.248056173	0.003082535	2.745151758	65.88364	10.7392292	10.79129124	0.043783575	38.9421577	934.6118164	24	21348.13623
	02	511.2579	882.3556519	3.30497	15.01979	1.14723325	1.151079655	0.002843015	2.510770321	60.25849	10.68774128	10.72492027	0.043514259	38.4020424	921.6489868	24	21176.53564
	03	362.2086	750.1420898	2.830966	14.0344	8.69638443	54.30799103	0.134133697	10.37267494	207.4535	9.1630373	9.920722961	0.04025143	32.5165291	650.3305664	19.11944	14342.2996
	04	512.8771	885.1481934	3.329771	14.97567	1.11607063	1.111285686	0.002744729	2.431250334	58.35001	10.37358761	10.33100414	0.041916028	37.1024628	890.4591064	24	21243.55664
	05	509.7834	879.8095703	3.347514	14.9441	1.10494232	1.094456911	0.00270317	2.379050016	57.0972	10.35403728	10.25779343	0.041619018	36.6204414	878.890625	24	21115.42969
	06	509.5362	879.3828735	3.359342	14.92305	1.07505393	1.060939193	0.002620383	2.306699276	55.36078	10.41570854	10.28277874	0.041720349	36.6915321	880.5968018	24	21105.18896
	07	506.0909	873.4371338	3.349231	14.94105	1.02052248	1.010055304	0.002494704	2.180508375	52.3322	10.26657963	10.16567707	0.0412453	36.0286446	864.6875	24	20962.49121
	08	508.6813	877.9083862	3.369898	14.90427	1.1469146	1.128494143	0.002787235	2.447596312	58.74231	9.917770386	9.759236336	0.039596226	34.7644615	834.3471069	24	21069.80127
	09	507.3433	875.5993042	3.352474	14.93528	1.17076159	1.156686783	0.002856867	2.505129576	60.12311	10.3767643	10.26801205	0.041660525	36.4618492	875.0844116	24	21014.3833
	10	503.6922	869.2981567	3.337339	14.96219	1.15359116	1.143291354	0.002823779	2.461075306	59.06581	10.40839863	10.35029316	0.041994266	36.4846039	875.6304932	24	20863.15576
	11	504.5517	870.7820435	3.330344	14.97465	1.0693301	1.063837767	0.002627542	2.291351318	54.99243	10.51157093	10.46808147	0.042472254	36.9751587	887.4038086	24	20898.76904
	12	504.1156	870.0282593	3.333395	14.9692	1.05136538	1.045192122	0.002581487	2.247977972	53.95147	10.48757458	10.43636703	0.042343535	36.8400955	884.1622925	24	20880.67822
	13	500.9781	864.6136475	3.344969	14.94862	1.15708971	1.146051049	0.002830597	2.449100733	58.77842	10.38914967	10.30030537	0.041791547	36.1344757	867.227417	24	20750.72754
	14	502.8327	867.8140259	3.36392	14.91492	1.29047835	1.27154541	0.00314055	2.728017569	65.47242	10.27421284	10.12898827	0.04109643	35.6669235	856.0062256	24	20827.53662

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	498.7939	860.8442383	3.360804	14.92045	1.22036588	1.203220725	0.002971796	2.56166625	61.47999	10.19551754	10.06033897	0.040817894	35.1359787	843.2634888	24	20660.26172
	16	501.9721	866.329895	3.352475	14.93528	1.27632833	1.262286663	0.00311768	2.702799082	64.86718	10.3939209	10.28119564	0.041714028	36.1385956	867.3262939	24	20791.91748
	17	502.5796	867.3777466	3.350821	14.93822	1.07982337	1.068067193	0.002637987	2.291090488	54.98617	10.63892937	10.52907467	0.042719696	37.0526466	889.2634888	24	20817.06592
	18	508.8544	878.2069702	3.362459	14.91752	1.17696285	1.160363197	0.002865946	2.518246651	60.43792	10.52827454	10.3830204	0.042127136	36.9971237	887.9310303	24	21076.96729
	19	506.28	873.7643433	3.353042	14.93426	1.27729571	1.262988687	0.003119418	2.725569963	62.68811	10.06032085	9.949381828	0.040367715	35.2721443	811.2592773	24	20970.34424
	20	502.8163	867.7854004	3.345925	14.94692	1.28507161	1.272571683	0.003143087	2.7298913	65.51739	9.606638908	9.522010803	0.038633715	33.5232849	804.5587769	24	20826.84961
	21	498.9837	861.1713257	3.352856	14.9346	1.22115958	1.207309127	0.002981895	2.568477154	61.64345	9.600599289	9.497005463	0.038532272	33.1894836	796.5476074	24	20668.11182
	22	494.4695	853.3812256	3.327355	14.97997	1.17266929	1.167539597	0.002883671	2.463469982	59.12328	9.904894829	9.872256279	0.040054802	34.1803627	820.3286743	24	20481.14941
	23	499.6568	862.3330688	3.330598	14.9742	1.05104613	1.046733141	0.002585294	2.231402159	53.55365	10.38708782	10.3423996	0.041962281	36.1873779	868.4971313	24	20695.99365
	24	505.4286	872.2946167	3.347832	14.94355	1.19779086	1.186195016	0.002929744	2.557355404	61.37653	10.30617046	10.20846653	0.04141891	36.1320457	867.1691284	24	20935.0708
	25	501.7552	865.9553223	3.316345	14.99956	1.21851265	1.218141794	0.00300865	2.605710745	59.93135	10.09116459	10.08998108	0.040938161	35.4405785	815.1333008	24	20782.92773
	26	497.9511	859.3887329	3.324112	14.98573	1.16186047	1.157989979	0.002860083	2.459530354	59.02873	9.958152771	9.938621521	0.040324021	34.6574783	831.77948	24	20625.32959
	27	495.5942	855.3205566	3.333841	14.96843	1.05883598	1.052915931	0.002600564	2.226670027	53.44008	10.1651535	10.11317062	0.041032221	35.0950584	842.2813721	24	20527.69336
	28	495.1181	854.500061	3.342681	14.9527	0.94198322	0.933244824	0.002304992	1.972337484	47.3361	10.47213745	10.39052391	0.042157561	36.0222549	864.5341187	24	20508.00146
Mar02	01	499.6872	862.3850708	3.318706	14.99535	0.95199955	0.950387597	0.002347331	2.027680397	48.66433	11.07995415	11.07194614	0.044922326	38.7385178	929.7244263	24	20697.2417
	02	503.4674	868.9091797	3.315527	15.00101	1.05947316	1.058526635	0.002614422	2.276144505	54.62747	10.83399963	10.83702946	0.043969188	38.1981277	916.755127	24	20853.82031
	03	503.025	868.1456909	3.312537	15.00633	1.17314792	1.17349112	0.002898371	2.520307541	60.48738	10.43288612	10.44522476	0.042379461	36.7824059	882.77771	24	20835.49658
	04	503.5847	869.1129761	3.295812	15.03607	1.16980886	1.175817847	0.002904114	2.527819157	60.66766	10.36627483	10.43174171	0.042324841	36.7799072	882.7177734	24	20858.71143
	05	501.0273	864.6988525	3.317752	14.99705	1.12417972	1.121752739	0.002770582	2.398848772	57.57237	10.34831142	10.34770203	0.04198382	36.2960434	871.1049805	24	20752.77246
	06	496.0406	856.0932617	3.335558	14.96537	1.08522785	1.077790022	0.002662004	2.282044649	54.76907	10.08056831	10.02478218	0.040673643	34.8175278	835.6207275	24	20546.23828
	07	500.917	864.5092163	3.336577	14.96357	1.14500785	1.137362719	0.00280914	2.429144621	58.29947	10.09551048	10.03467751	0.04071378	35.202076	844.8497925	24	20748.22119
	08	511.7609	883.2232666	3.331552	14.9725	1.2341969	1.227785707	0.00303247	2.681055069	64.34532	10.62684155	10.57677078	0.042913172	37.9057617	909.7382813	24	21197.3584
	09	506.9615	874.9402466	3.328118	14.97861	1.28411853	1.278703332	0.003158232	2.767084599	66.41003	10.10378361	10.0670805	0.040845249	35.7449265	857.8781738	24	20998.56592
	10	502.5414	867.3114014	3.316926	14.99852	1.19763029	1.195889831	0.002953691	2.564618826	61.55085	10.11649227	10.11583424	0.041043051	35.5948143	854.2755127	24	20815.47363
	11	503.7525	869.4022217	3.322827	14.98802	1.39607739	1.392318726	0.003438845	2.992074728	68.81772	9.78963089	9.770526886	0.039642043	34.4643517	792.6801147	24	20865.65332
	12	499.217	861.5745239	3.312601	15.00622	1.22274995	1.223852515	0.003022753	2.605823755	62.53977	9.892652512	9.905703545	0.040190492	34.6279678	831.071228	24	20677.78857
	13	505.2854	872.0479126	3.301917	15.02521	1.07553148	1.079657316	0.002666613	2.327546597	55.86112	10.77023888	10.81764317	0.043890566	38.2735252	918.5645752	24	20929.1499
	14	508.514	877.6190796	3.326782	14.98099	1.16789961	1.163813829	0.002874469	2.526248693	60.62997	10.76246262	10.72840881	0.043528449	38.1994934	916.7878418	24	21062.85791
	15	489.063	844.050293	3.205318	14.76166	1.25009573	1.860822678	0.004595985	2.607906342	62.58975	10.69393349	11.13483715	0.045177463	37.8088303	907.4119263	24	20257.20703
	16	194.3352	731.7678833	2.876428	13.88225	12.3255482	31.74126816	0.078396827	11.69046307	128.5951	10.78121853	11.62880039	0.047181591	35.8645096	394.509613	10.39444	7606.319927
	17	516.429	891.2789917	3.355844	14.92928	1.01082408	0.998173296	0.002465354	2.199957609	52.79898	10.89137459	10.76239586	0.043666366	38.917778	934.0266724	24	21390.6958
	18	519.6188	896.7835693	3.308514	15.01349	1.01595235	1.017443776	0.002512952	2.254864454	51.86188	11.23817825	11.2677784	0.04571683	40.9654617	942.2056274	24	21522.80566
	19	511.3353	882.4884033	3.308975	15.01267	1.14484859	1.146912336	0.002832721	2.500265837	60.00638	10.89298344	10.91723728	0.044294596	39.099411	938.3858643	24	21179.72168
	20	501.673	865.8129883	3.326082	14.98225	1.15804398	1.153597474	0.002849235	2.467606306	59.22255	10.76022911	10.72994614	0.043534737	37.6959229	904.7022095	24	20779.51172
	21	498.0303	859.526123	3.3423	14.95339	1.05359101	1.045273781	0.00258169	2.221826315	53.32383	10.9012413	10.81617069	0.043884516	37.721817	905.3236084	24	20628.62695
	22	501.4557	865.4385986	3.353491	14.93347	0.93451077	0.92323643	0.002280274	1.973977089	47.37545	11.27153778	11.14841652	0.045232553	39.1467438	939.5217896	24	20770.52637
	23	502.6457	867.4915161	3.349613	14.94037	0.98347914	0.9735502	0.002404542	2.086452007	50.07485	10.97867966	10.86896706	0.044098847	38.2550507	918.1212158	24	20819.79639
	24	505.8401	873.0057373	3.337529	14.96186	0.93149078	0.924527347	0.002283463	1.996252537	47.91006	11.05816269	10.98845387	0.044583522	38.9164848	933.9956055	24	20952.1377
	25	505.0332	871.6119385	3.335367	14.96572	0.97187215	0.966011345	0.002385923	2.078987122	49.89569	11.04369545	10.97976303	0.044548273	38.8350449	932.0411377	24	20918.68652
	26	501.3023	865.1729736	3.338865	14.95949	0.99619728	0.990497947	0.002446401	2.118058681	50.83341	10.85752869	10.7842207	0.043754876	37.8576851	908.5844116	24	20764.15137
	27	496.4585	856.8140259	3.343126	14.9519	1.00764418	0.999871671	0.002469551	2.116219997	50.78928	10.59567928	10.51172256	0.042649336	36.5425606	877.0214844	24	20563.53662
	28	496.1914	856.354187	3.346751	14.94545	0.9383269	0.928991079	0.002294485	1.966447949	47.19475	11.00030041	10.90062523	0.044227213	37.8710594	908.9053955	24	20552.50049
	29	493.8076	852.2386475	3.361567	14.9191	0.88840622	0.876526117	0.002164904	1.847787976	44.34691	10.87374592	10.72713375	0.0435233	37.0932007	890.2368164	24	20453.72754
	30	492.4553	849.9058838	3.358452	14.92465	0.83896172	0.827999532	0.002045052	1.740067959	41.76163	10.65211296	10.51776218	0.042673759	36.2726517	870.5435791	24	20397.74121
	31	491.3136	847.9334106	3.348977	14.94149	1.01463962	1.004631758	0.002481311	2.104434252	50.50642	10.4689579	10.36606216	0.042058337	35.6642723	855.9425049	24	20350.40186
Apr02	01	490.9232	847.2600708	3.326718	14.9811	1.13011622	1.125967622	0.002780992	2.357949972	56.5908	10.53209591	10.49846268	0.042595509	36.0908089	866.1793823	24	20334.2417
	02	490.8654	847.1605835	3.34338	14.95145	1.05343223	1.045063734	0.002581173	2.188293457	52.51904	10.56674194	10.4808836	0.042524133	36.0268288	864.6439209	24	20331.854
	03	494.3955	853.2531738	3.353047	14.93425	0.99778676	0.986416936	0.002436323	2.080717087	49.93721	10.58565807	10.46879959	0.042475175	36.2459946	869.9039307	24	20478.07617
	04	496.7635	857.3405151	3.341282	14.95519	1.07394075	1.065257549	0.002631049	2.256772041	54.16253	10.70284176	10.62246704	0.043098658	36.9520302	886.8486938	24	20576.17236
	05	500.6541	864.0541382	3.331933	14.97182	1.01813698	1.013017178	0.00250202	2.162387609	51.8973	10.9409914	10.88940048	0.044181667	38.1777077	916.2650146	24	20737.29932
	06	495.489	855.1403198	3.330788	14.97385	0.91352504	0.90936327	0.002246009	1.920685053	46.09644	11.20918369	11.16072464	0.045282476	38.7240219	929.3764648	24	20523.36768
	07	473.2774	852.3197632	3.345741	14.94726	0.98310483	0.974502504	0.002406894	2.053262234	47.22503	10.98702145	10.890522	0.044186149	37.6607437	866.1970825	24	20455.67432
	08	492.8736	850.6265869	3.338467	14.9602	1.17295814	1.164963126	0.002877307	2.450814486	53.91792	10.08384228	10.01496506	0.040633794	34.5955353	761.1018066	24	20415.03809

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	09	494.7276	853.8270264	3.347133	14.94477	1.04119039	1.033097386	0.002551616	2.18158865	52.35813	9.864988327	9.773644447	0.039654683	33.8588982	812.6135864	24	20491.84863
	10	493.8651	852.3381348	3.342173	14.9536	1.26806033	1.257908583	0.003106867	2.649749041	63.59398	9.828900337	9.752113342	0.039567333	33.7256889	809.4165039	24	20456.11523
	11	493.695	852.0441895	3.338993	14.95927	1.15756655	1.149781704	0.002839809	2.423821688	58.17172	9.87929821	9.812199593	0.039811134	33.9208374	814.1000977	24	20449.06055
	12	490.1868	845.989563	3.348977	14.9415	1.09254205	1.080420494	0.002668496	2.25753665	54.18088	9.778185844	9.682497025	0.03928487	33.2381477	797.7155151	24	20303.74951
	13	487.0629	840.5986328	3.342363	14.95327	1.22131848	1.21143806	0.002992092	2.519144058	60.45946	9.529056549	9.45421505	0.038358659	32.2469788	773.9274902	24	20174.36719
	14	482.8514	833.3301392	3.338928	14.95938	1.03673816	1.029144049	0.002541851	2.120771646	50.89852	9.640979767	9.575654984	0.038851369	32.3746605	776.9918823	24	19999.92334
	15	498.8212	860.8916016	3.31012	15.01063	0.88395452	0.885286272	0.002186541	1.885195851	45.2447	11.15816498	11.17945957	0.045358483	39.0598335	937.4359741	24	20661.39844
	16	502.3243	866.9368286	3.327228	14.98018	1.16233563	1.157375097	0.002858567	2.480024099	59.52058	10.98359966	10.94772053	0.044418268	38.5061722	924.1480713	24	20806.48389
	17	500.8871	864.4570313	3.316798	14.99875	1.12354362	1.122726917	0.002772991	2.398947001	57.57473	10.93271637	10.93044567	0.044348199	38.3391151	920.1387939	24	20746.96875
	18	505.1398	869.8171387	3.310692	15.02877	1.22163737	1.226305842	0.003029481	2.639873743	63.35697	10.99377918	11.05010414	0.044844333	38.9948196	935.8756714	24	20875.61133
	19	504.3965	867.0971069	3.310947	15.0421	1.18634367	1.194231749	0.002950783	2.561526775	61.47664	10.99488735	11.0755291	0.044954829	38.9784203	935.4821167	24	20810.33057
	20	498.9726	857.774292	3.313999	15.0367	1.1114608	1.117356777	0.002760835	2.370401144	56.88963	10.88041306	10.95062065	0.044447858	38.1212807	914.9107056	24	20586.58301
	21	496.3408	853.2498169	3.324303	15.01847	1.26408517	1.267450929	0.003131695	2.673243046	64.15783	10.59106255	10.62571239	0.043129113	36.8014526	883.2349243	24	20477.99561
	22	493.3024	848.0264893	3.33291	15.00325	1.35847044	1.358403802	0.003356425	2.848536253	68.36487	10.21365356	10.21970081	0.0414811	35.1782112	844.2770996	24	20352.63574
	23	491.7472	845.3533325	3.34109	14.98878	1.35200381	1.349407434	0.0033342	2.820352554	67.68846	10.0268364	10.00859642	0.040624302	34.3425064	824.2202148	24	20288.47998
	24	492.7745	847.1196289	3.349548	14.97381	1.11591232	1.110042095	0.002742762	2.324380398	55.78513	9.92286396	9.880049706	0.040102497	33.969944	815.2786865	24	20330.87109
	25	494.4456	849.9909668	3.341981	14.9872	1.20494342	1.201635599	0.002969074	2.523188829	60.55653	10.08502293	10.06340218	0.040846705	34.7195015	833.2680054	24	20399.7832
	26	492.8295	847.2140503	3.340137	14.99046	1.17982447	1.178682923	0.002912361	2.469067574	59.25762	10.26117897	10.24497986	0.041583784	35.2307434	845.5377808	24	20333.13721
	27	500.5139	860.4237671	3.34745	14.97752	1.18364036	1.178923726	0.002912959	2.507171631	60.17212	10.46087933	10.42109203	0.042298574	36.3938904	873.4534302	24	20650.17041
	28	499.8485	859.2809448	3.338484	14.99339	1.23864877	1.237043738	0.003056566	2.627341986	63.05621	10.24732876	10.23619747	0.041548111	35.7019157	856.8460083	24	20622.74268
	29	497.7113	855.6065063	3.327545	15.01274	0.80191815	0.803615749	0.001985624	1.70110178	40.82644	10.33685398	10.36020851	0.042051475	35.9787369	863.4896851	24	20534.55615
	30	499.7799	859.1625977	3.325828	15.01577	0.78872246	0.790330708	0.001952798	1.679570913	40.3097	10.53286648	10.56128311	0.042867653	36.8313141	883.9514771	24	20619.90234
May 02	01	497.8683	855.8756714	3.312346	15.03963	1.17934799	1.188982487	0.00293781	2.505828857	60.13989	10.49187088	10.56293297	0.042874333	36.6949234	880.6782227	24	20541.01611
	02	493.7389	848.7774658	3.336894	14.9962	1.30860114	1.309100986	0.003234612	2.746557474	65.91738	10.20092773	10.19629669	0.04138612	35.1266556	843.0396729	24	20370.65918
	03	490.7806	843.6911011	3.352602	14.96841	0.96265179	0.957056344	0.002364755	1.999390364	47.98537	9.891064644	9.838757515	0.039934933	33.6953659	808.6887817	24	20248.58643
	04	266.2224	646.0922241	2.591394	12.01224	2.63997078	6.507643223	0.016079472	5.160964012	87.73639	8.465302467	9.620223045	0.039047811	28.3466644	481.8933105	16.91389	10927.93212
	05	493.6239	848.5789795	3.378866	14.92195	0.74229884	0.732547343	0.001810025	1.533482671	36.80358	10.13652897	10.00432777	0.040606953	34.4580345	826.9927979	24	20365.89551
	06	494.5995	850.2556152	3.365448	14.94569	0.90764254	0.899063468	0.002221463	1.889569163	45.34966	10.35608768	10.26226711	0.041653909	35.4143181	849.9436035	24	20406.13477
	07	498.3129	856.6407471	3.365701	14.94524	0.91686374	0.907974541	0.002243481	1.923299551	46.15919	10.43017483	10.33643341	0.041954957	35.9420967	862.6102905	24	20559.37793
	08	500.6761	860.7024536	3.374286	14.93005	1.03387725	1.021525025	0.002524048	2.174179077	52.1803	10.41984177	10.29807472	0.041799277	35.9753456	863.4082642	24	20656.85889
	09	499.5216	858.718689	3.363221	14.94963	1.03864574	1.029214025	0.002543047	2.185487986	52.45171	10.51331711	10.42566586	0.042317152	36.3352776	872.0466919	24	20609.24854
	10	503.3408	865.2834473	3.3547	14.9647	1.0001719	0.993920445	0.002455839	2.125959158	51.02302	10.67755413	10.6149292	0.043085363	37.2792664	894.7023926	24	20766.80273
	11	500.4039	860.2346802	3.373651	14.93118	1.05200016	1.039011955	0.002567254	2.210811615	53.05948	10.3564043	10.23779583	0.041554604	35.7452583	857.8862305	24	20645.63232
	12	495.2687	851.40802	3.374923	14.92892	1.0058955	0.993219137	0.002454107	2.092704058	50.2249	10.08915043	9.968838692	0.040462893	34.4539299	826.8942871	24	20433.79248
	13	495.7174	852.1779175	3.350758	14.97167	1.08968019	1.083900213	0.002678168	2.284237146	54.82169	9.93987751	9.892438889	0.040152796	34.220974	821.3034058	24	20452.27002
	14	495.9207	852.5273438	3.359533	14.95615	1.01161897	1.004201412	0.002481244	2.117299557	50.81519	10.16213131	10.08742046	0.040944189	34.9069595	837.7669678	24	20460.65625
	15	492.0936	845.9484253	3.372825	14.93264	0.92640376	0.91582799	0.002262885	1.915859222	45.98062	10.0516367	9.938568115	0.040340036	34.1277084	819.0650024	24	20302.76221
	16	491.4586	844.8575439	3.387006	14.90755	0.93800879	0.92329061	0.002281324	1.928342104	46.28021	9.921743393	9.768489838	0.039649721	33.5009346	804.0223999	24	20276.58105
	17	487.1241	837.4049683	3.382936	14.91475	0.82624263	0.814060509	0.002011431	1.685501695	40.45204	9.931612015	9.790119171	0.039737489	33.2773781	798.6571045	24	20097.71924
	18	488.624	839.9836426	3.379503	14.92083	0.85947037	0.847870648	0.002094971	1.761039972	42.26496	9.959105492	9.827448845	0.039889019	33.5077591	804.1862183	24	20159.60742
	19	494.4891	850.0667725	3.385671	14.90991	0.79158413	0.779677033	0.001926473	1.638366699	39.3208	10.26324749	10.10956383	0.041034091	34.8849411	837.2385864	24	20401.60254
	20	498.7166	857.335022	3.375812	14.92735	0.86376297	0.852863014	0.002107306	1.807138324	43.37132	10.22000504	10.09657288	0.04098136	35.1403847	843.3692017	24	20576.04053
	21	504.0228	866.4547119	3.364494	14.94738	0.73212385	0.724998116	0.00179137	1.552640438	37.26337	10.22302532	10.13286781	0.041128647	35.6358414	855.2601929	24	20794.91309
	22	499.9453	859.446106	3.347515	14.97741	1.43578935	1.429394245	0.003531838	3.037578344	72.90188	10.19090176	10.15307713	0.041210692	35.4185333	850.0447998	24	20626.70654
	23	496.5823	853.6654053	3.345478	14.98101	1.54866838	1.543936133	0.003814855	3.258682489	78.20838	10.15100861	10.12064457	0.041079048	35.0720596	841.7293701	24	20487.96973
	24	490.1481	842.6046753	3.363985	14.94827	1.19747138	1.187073231	0.002933095	2.47683239	59.44398	9.765623093	9.680659294	0.039293211	33.1170158	794.8084106	24	20222.51221
	25	488.2255	839.2987671	3.363539	14.94906	1.11289167	1.103265285	0.002726017	2.287312984	54.89551	9.393442154	9.31323719	0.037801865	31.7290249	761.496582	24	20143.17041
	26	488.4647	839.7097168	3.371679	14.93466	1.0469141	1.035788774	0.002559293	2.146419525	51.51407	9.4435215	9.34011364	0.037910946	31.8339214	764.0140991	24	20153.0332
	27	488.9667	840.5739136	3.374287	14.93005	1.0221113	1.009425163	0.002494152	2.09664464	50.31947	9.299004555	9.189734459	0.037300561	31.357687	752.5844727	24	20173.77393
	28	488.7274	840.1630249	3.347388	14.97764	1.09778905	1.093135238	0.002700988	2.270234585	54.48563	9.083898544	9.049781799	0.036732513	30.8600883	740.6420898	24	20163.9126
	29	483.6875	831.4968872	3.345225	14.98146	1.19874382	1.195341945	0.002953526	2.454344511	58.90427	8.791050911	8.763576508	0.035570811	29.5819874	709.9677124	24	19955.92529
	30	478.4945	822.5708618	3.34478	14.98225	1.29413414	1.289927483	0.003187234	2.624740839	62.99378	8.555435181	8.530010223	0.034622796	28.4817867	683.5629272	24	19741.70068
	31	478.4453	822.4857788	3.35362	14.96661	0.94261891	0.93710345	0.002315455	1.904682875	45.71239	8.809968948	8.761387825	0.035561934	29.2579117	702.1898804	24	19739.65869

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Jun 02	01	488.5738	839.8986816	3.356672	14.96121	0.96662569	0.959288776	0.002370268	1.990013242	47.76032	9.467368126	9.405939102	0.038178142	32.0682297	769.6375122	24	20157.56836
	02	497.0995	854.5531006	3.353174	14.9674	0.96901119	0.962241173	0.002377567	2.0365839	48.87801	9.682317734	9.629357338	0.039084982	33.4013443	801.6323242	24	20509.27441
	03	491.2034	844.4182739	3.353261	14.96725	1.09301937	1.08613956	0.002683702	2.261021852	54.26452	9.28077507	9.23005867	0.03746425	31.6453037	759.4873047	24	20266.03857
	04	483.0739	830.4437256	3.357433	14.95986	1.08618259	1.078560233	0.002664975	2.213967085	53.13521	8.83826828	8.77827549	0.035630476	29.5932083	710.2369995	24	19930.64941
	05	478.2475	822.145813	3.355782	14.96279	0.94945586	0.943246782	0.002330633	1.918982029	46.05557	8.546690941	8.49307251	0.034472849	28.3452835	680.2868042	24	19731.49951
	06	475.7337	817.8245239	3.35451	14.96504	0.90764284	0.901100755	0.002226497	1.821097374	43.70634	8.644625664	8.594274521	0.034883633	28.5292339	684.7015991	24	19627.78857
	07	479.9153	825.0125122	3.360043	14.95525	1.12243068	1.113295197	0.0027508	2.268771172	54.4505	9.132865906	9.064008713	0.036790259	30.3546867	728.5125122	24	19800.30029
	08	488.6946	840.1063843	3.358516	14.95795	0.78061497	0.776825786	0.00191943	1.611576319	38.67783	9.463554382	9.396857262	0.038141269	32.0458336	769.0999756	24	20162.55322
	09	496.6565	853.7930298	3.349105	14.9746	1.1744175	1.169529319	0.002889745	2.466288328	59.19092	9.938281059	9.8962183	0.040168129	34.2994652	823.1871948	24	20491.03271
	10	490.9894	844.0499268	3.342576	14.98615	0.92301184	0.920465767	0.002274344	1.918626547	46.04704	9.605209351	9.582937241	0.038896557	32.8355179	788.0524292	24	20257.19824
	11	487.4011	837.8820801	3.35559	14.96313	1.06726253	1.06103909	0.002621683	2.199425459	52.78621	9.306477547	9.249625206	0.037543669	31.462183	755.0924072	24	20109.16992
	12	485.1427	833.999939	3.356672	14.96121	1.13864851	1.131146193	0.002794908	2.330174923	55.9242	9.081515312	9.02226162	0.036620822	30.5431919	733.0366211	24	20015.99854
	13	485.2715	834.2219849	3.350758	14.97167	1.14866316	1.143241286	0.002824793	2.358204603	56.59691	9.067840576	9.025166512	0.036632586	30.5655289	733.5726929	24	20021.32764
	14	487.2117	837.5560913	3.353174	14.9674	1.18523026	1.178376794	0.002911605	2.441966295	58.60719	9.051943779	9.003329277	0.036543965	30.6209583	734.9030151	24	20101.34619
	15	484.7526	833.3292847	3.355718	14.9629	1.00207984	0.99563086	0.002460065	2.051193237	49.22864	8.957507133	8.901460648	0.03613048	30.1088448	722.6123047	24	19999.90283
	16	487.2172	837.5656738	3.354829	14.96447	1.04850364	1.042056203	0.002574776	2.157454967	51.77892	9.084376335	9.030138969	0.036652785	30.6991501	736.7796021	24	20101.57617
	17	485.0658	833.8677368	3.340225	14.99031	0.95315564	0.951199651	0.002350283	1.961838245	43.16044	8.873705864	8.858952522	0.035957944	29.9802456	659.5654297	24	20012.82568
	18	479.6755	824.6015625	3.351266	14.97077	0.93403447	0.929049015	0.00229555	1.893916249	45.45399	8.580713272	8.538594246	0.034657627	28.5795174	685.9083862	24	19790.4375
	19	477.8957	821.5413208	3.359597	14.95604	0.96519536	0.95778209	0.002366548	1.945101261	46.68243	8.667042732	8.603136063	0.034919605	28.6876507	688.5036011	24	19716.9917
	20	480.5721	826.1411133	3.359153	14.95683	0.9798221	0.9724105	0.002402693	1.985885382	47.66125	8.971497536	8.90712738	0.036153477	29.8724995	716.9400024	24	19827.38672
	21	490.2516	842.7841187	3.359151	14.95683	1.19445074	1.18548882	0.00292918	2.468965769	59.25518	9.250514984	9.184010506	0.03727733	31.4192467	754.0618896	24	20226.81885
	22	325.1538	706.0621948	2.84445	13.94247	8.40784073	37.12944031	0.091741614	15.96024513	303.2447	8.649216652	10.02855015	0.040705223	29.0017757	551.0337524	18.25	12885.63506
	23	487.2172	837.5654907	3.377784	14.92386	0.60938776	0.60187161	0.001487141	1.247948885	29.95077	9.875164032	9.749531746	0.039572753	33.1459885	795.5036621	24	20101.57178
	24	486.9149	837.0461426	3.372188	14.93376	0.70732236	0.699345827	0.001727988	1.445822835	34.69975	9.856879234	9.74745369	0.039564326	33.118824	794.8518066	24	20089.10742
	25	484.3708	832.6726685	3.381028	14.91813	0.85072631	0.838969648	0.002072977	1.726642132	41.43941	9.539071083	9.409379005	0.038192097	31.8036842	763.2883911	24	19984.14404
	26	485.9395	835.3694458	3.382299	14.91588	0.72942114	0.719026268	0.001776614	1.484350443	35.62441	9.682953835	9.547159195	0.038751334	32.3756752	777.0161743	24	20048.8667
	27	486.8928	837.0083008	3.379184	14.92139	0.80271298	0.791853845	0.001956563	1.636374593	39.27299	9.713155746	9.58577919	0.038908087	32.5730591	781.753418	24	20088.19922
	28	485.8961	835.2938843	3.372123	14.93388	0.74213982	0.734047949	0.001813732	1.516068697	36.38565	9.622061729	9.515378952	0.038622338	32.2621536	774.291687	24	20047.05322
	29	485.3299	834.3209229	3.373587	14.93129	0.69237757	0.684262633	0.001690718	1.410904169	33.8617	9.460851669	9.351995468	0.037959166	31.6725502	760.1411743	24	20023.70215
	30	479.9147	825.0123901	2.482767	16.50739	0.50207317	0.680187404	0.00168065	1.380183697	33.12441	6.769878387	9.105435371	0.036958408	30.5030289	732.0726929	24	19800.29736
Jul 02	01	474.1022	815.0192261	3.374352	14.92994	0.82894522	0.819124222	0.002023941	1.649848342	39.59636	8.947968483	8.843313217	0.035894468	29.2623291	702.2958984	24	19560.46143
	02	483.6233	831.3881836	3.377021	14.92521	0.77870625	0.768748939	0.001899472	1.579413295	37.90592	9.306635857	9.191158295	0.037306339	31.0267677	744.642395	24	19953.31641
	03	485.4121	834.4628296	3.376003	14.92701	0.67027873	0.66185832	0.00163536	1.365597963	32.77435	9.486925125	9.371291161	0.038037498	31.7439175	761.8540039	24	20027.10791
	04	486.088	835.6246338	3.379247	14.92128	0.66153455	0.652747989	0.001612852	1.348433375	32.3624	9.559101105	9.43298912	0.038287912	31.9940166	767.8563843	24	20054.99121
	05	487.1295	837.4144287	3.375559	14.9278	0.85072631	0.840148926	0.002075892	1.739151716	41.73964	9.296619415	9.18436718	0.03727879	31.2187042	749.2489014	24	20097.94629
	06	486.115	835.671814	3.374988	14.92881	0.65533417	0.647719026	0.001600424	1.338951707	32.13484	9.228892326	9.119001389	0.037013479	30.9321461	742.371521	24	20056.12354
	07	484.9202	833.6174316	3.383317	14.91407	0.7027117	0.692526937	0.001711137	1.427420139	34.25808	8.995504379	8.86639595	0.035988152	30.0010033	720.0241089	24	20006.81836
	08	485.9257	835.3459473	3.383571	14.91362	0.80080527	0.7892856	0.001950217	1.631432772	39.15439	8.91299057	8.784315109	0.035654996	29.7864494	714.8748169	24	20048.30273
	09	479.7454	824.7196655	3.382046	14.91632	0.60318732	0.594943225	0.001470024	1.215106606	29.16256	8.706788063	8.585936546	0.034849789	28.7513466	690.0322876	24	19793.27197
	10	475.7314	817.8196411	3.385542	14.91014	0.6356203	0.626380026	0.001547699	1.266688228	30.40052	8.552891731	8.424845695	0.034195941	27.9670753	671.2097778	24	19627.67139
	11	479.6294	824.5213013	3.37734	14.92465	0.44944912	0.443193227	0.001095069	0.900835991	21.62006	8.910605431	8.798751831	0.035713583	29.4537506	706.8900146	24	19788.51123
	12	478.8655	823.2084351	3.382746	14.91509	0.82719713	0.815185785	0.002014212	1.659454823	39.82692	8.943674088	8.817202568	0.035788476	29.4732037	707.3568726	24	19757.00244
	13	478.8079	823.109314	3.386687	14.90811	0.79460472	0.782187998	0.00193268	1.592585802	38.22206	8.706788063	8.573280334	0.034798421	28.6467285	687.5214844	24	19754.62354
	14	473.7881	814.4807129	3.392411	14.89799	0.75422275	0.741098523	0.001831153	1.492308378	35.8154	8.483415604	8.339431763	0.033849251	27.5701828	661.6843872	24	19547.53711
	15	480.618	826.2216187	3.374966	14.92885	0.72300893	0.713752925	0.001763586	1.458073378	34.99376	8.771707535	8.667427063	0.03518055	29.0681076	697.6345825	24	19829.31885
	16	482.8597	830.0753784	3.381155	14.9179	0.74770433	0.736865878	0.001820694	1.511366248	36.27279	8.97467804	8.852321625	0.035931028	29.8313198	715.9517212	24	19921.80908
	17	482.8192	830.0043335	3.386942	14.90766	0.77807033	0.765922308	0.001892488	1.571992874	37.72783	8.856074333	8.719600677	0.035392318	29.3775787	705.0618896	24	19920.104
	18	482.852	830.0611572	3.374795	14.92915	0.87346107	0.863137305	0.002132693	1.771738291	42.52172	8.704881668	8.60185051	0.034914374	28.9827957	695.5870972	24	19921.46777
	19	479.3733	824.0820313	3.383571	14.91362	0.88681591	0.873759031	0.002158938	1.779993296	42.71984	8.569107056	8.44578743	0.03428096	28.250721	678.0172729	24	19777.96875
	20	479.1262	823.6571655	3.377974	14.92352	0.82433456	0.813551307	0.002010173	1.656566262	39.75759	8.727297783	8.615627289	0.034970306	28.8047123	691.3131104	24	19767.77197
	21	484.4894	832.8758545	3.376765	14.92566	0.79714835	0.787131786	0.001944894	1.621106625	38.90656	8.944945335	8.833950043	0.035856456	29.8687916	716.8510132	24	19989.02051
	22	485.0862	833.9007568	3.371489	14.935	0.81877047	0.809449375	0.002000039	1.668262124	40.03829	8.884850502	8.788676262	0.035672702	29.7573376	714.1760864	24	20013.61816
	23	483.6015	831.3503418	3.380075	14.91981	0.89619565	0.88391	0.00218402	1.816481233	43.59555	8.632383347	8.518408775	0.034575697	28.7581635	690.1959229	24	19952.4082

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	480.357	825.7728271	3.381091	14.91801	0.95406634	0.940678298	0.002324287	1.920835376	46.10005	8.215367317	8.102679253	0.032888286	27.1620865	651.8900757	24	19818.54785
	25	478.0222	821.7584839	3.37613	14.92679	0.97759581	0.965394676	0.002385357	1.961301684	47.07124	8.238101959	8.137231827	0.033028532	27.1415787	651.3978882	24	19722.20361
	26	481.7144	828.105896	3.36443	14.94749	0.81463695	0.807375073	0.001994913	1.652701259	39.66483	8.698996544	8.622192383	0.034996945	28.9810505	695.5452271	24	19874.5415
	27	481.5138	827.7611694	3.370408	14.93691	0.73180598	0.72369957	0.001788161	1.480536222	35.53287	8.879286766	8.785793304	0.035660997	29.5203037	708.4873047	24	19866.26807
	28	481.2442	827.2982788	3.394828	14.89371	0.80191815	0.787506878	0.001945821	1.610349178	38.64838	8.57212925	8.421349525	0.034181748	28.2863426	678.8721924	24	19855.15869
	29	481.3214	827.430603	3.360743	14.95401	0.87250739	0.865326464	0.002138102	1.770920396	42.50209	8.336194992	8.271370888	0.033573005	27.7812252	666.7493896	24	19858.33447
	30	476.3351	818.8587036	3.381347	14.91756	0.95979011	0.946467578	0.002338591	1.915677547	45.97626	8.152887344	8.042472839	0.032643918	26.7349281	641.6383057	24	19652.60889
	31	478.4862	822.5567627	3.376958	14.92533	0.9070065	0.895319045	0.00221221	1.821116686	43.7068	8.273397446	8.169946671	0.033161305	27.2783165	654.6796265	24	19741.3623
Aug 02	01	479.0495	823.5249023	3.377148	14.92499	0.81940657	0.808974743	0.001998865	1.647194147	39.53266	8.423001289	8.317461967	0.033760082	27.8019505	667.2468262	24	19764.59766
	02	477.506	820.8707275	3.384716	14.9116	0.75469965	0.743470907	0.001837014	1.508545399	36.20509	8.422682762	8.299198151	0.033685941	27.6557159	663.7371826	24	19700.89746
	03	320.6519	734.9689331	3.013019	13.82757	2.64246774	6.654340267	0.016441969	4.436994553	79.8659	8.63907814	8.938051224	0.036279004	28.4625568	512.3259888	17.72778	13029.3657
	04	490.4813	843.1762695	3.394384	14.8945	0.7440477	0.730823338	0.001805765	1.523284554	36.55883	9.806801796	9.63472271	0.039106753	32.9743958	791.385498	24	20236.23047
	05	490.7335	843.6106567	3.37931	14.92116	0.72481066	0.715114951	0.001766952	1.491624117	35.79898	9.811730385	9.682394981	0.039300252	33.1540985	795.6984253	24	20246.65576
	06	493.4783	848.3286133	3.383509	14.91374	0.65835506	0.648898721	0.00160334	1.361519337	32.67646	9.929859161	9.786860466	0.039724272	33.699749	808.7940063	24	20359.88672
	07	492.3657	846.4160156	3.378993	14.92173	0.73260075	0.722792804	0.001785922	1.511975408	36.28741	9.73541832	9.608052254	0.038998514	33.0099487	792.2388306	24	20313.98438
	08	488.7228	840.1538086	3.390693	14.90102	0.76217186	0.749568343	0.00185208	1.556988358	37.36772	9.531918526	9.37496376	0.03805241	31.9743042	767.3833008	24	20163.69141
	09	483.775	831.6479492	3.390948	14.90057	0.7364164	0.724183023	0.001789357	1.489470005	35.74728	9.333662987	9.179304123	0.03725823	30.9913425	743.7921753	24	19959.55078
	10	481.4257	827.6100464	3.387005	14.90755	0.72353852	0.712120712	0.001759553	1.456957936	34.96699	9.320151329	9.176909447	0.037248526	30.8299713	739.9193115	24	19862.64111
	11	482.6538	829.7211304	3.384969	14.91115	0.73832411	0.727072656	0.001796497	1.491461277	35.79507	9.226348877	9.089719772	0.036894631	30.615345	734.7683105	24	19913.30713
	12	481.6726	828.0349731	3.379458	14.9209	0.8501966	0.83893609	0.002072895	1.71648705	41.19569	9.1866045	9.065140724	0.036794849	30.4689541	731.2548828	24	19872.83936
	13	480.0218	825.1966553	3.375877	14.92724	0.74945337	0.740270495	0.001829107	1.509158373	36.2198	9.10679245	8.996395111	0.03651581	30.1353168	723.2476196	24	19804.71973
	14	480.1376	825.3950195	3.391839	14.899	0.74436551	0.731634498	0.001807769	1.49337244	35.84094	9.087396622	8.934492111	0.036264561	29.936491	718.4758301	24	19809.48047
	15	478.6427	822.8258057	3.390885	14.90069	0.69953197	0.687771857	0.00169939	1.399355054	33.58452	9.034453392	8.884725571	0.03606255	29.6745872	712.1901245	24	19747.81934
	16	478.253	822.1552734	3.391203	14.90012	0.70764035	0.695457518	0.001718379	1.413414598	33.92195	8.854167938	8.707156181	0.035341822	29.0609875	697.4636841	24	19731.72656
	17	478.5113	822.5990601	3.396607	14.89056	0.82592493	0.810450077	0.002002512	1.648350477	39.56041	8.590888977	8.434667587	0.034235805	28.161871	675.8848877	24	19742.37744
	18	478.7696	823.0431519	3.001946	15.58883	0.63498431	0.698698282	0.001726388	1.421629786	34.11911	8.181502342	9.166460991	0.037206095	30.6267414	735.0418091	24	19753.03564
	19	481.1842	827.1943359	3.374224	14.93016	0.68384552	0.675592482	0.001669297	1.381437063	33.15449	9.077009201	8.970836639	0.036412083	30.1217289	722.9215088	24	19852.66406
	20	484.3411	832.6209717	3.379249	14.92128	0.74229914	0.732052147	0.001808799	1.507432938	36.17839	9.150035858	9.029515266	0.036650255	30.5161667	732.3880005	24	19982.90332
	21	488.3052	839.4359131	3.381599	14.91711	0.66980189	0.660430372	0.001631832	1.370514631	32.89235	9.40441227	9.274312019	0.037643872	31.6030884	758.4741211	24	20146.46191
	22	488.2145	839.2799683	3.393683	14.89574	0.80589259	0.791561842	0.00195584	1.64258039	39.42193	9.239545822	9.079302788	0.036852326	30.9340248	742.416626	24	20142.71924
	23	488.8796	840.4228516	3.384779	14.91149	0.8179754	0.80550319	0.001990288	1.674790025	40.19496	9.042880058	8.908705711	0.036159877	30.3954582	729.4910278	24	20170.14844
	24	486.6685	836.6210938	3.376385	14.92634	0.82942235	0.818937898	0.002023482	1.693851709	40.65244	8.85575676	8.746572495	0.035501786	29.7029591	712.8709717	24	20078.90625
	25	486.1647	835.7567139	3.37168	14.93466	0.86169636	0.851835072	0.002104766	1.760292053	42.24701	8.870700836	8.773598671	0.035611499	29.7628117	714.3074951	24	20058.16113
	26	486.7418	836.7487183	3.367355	14.94231	0.81320602	0.805033982	0.001989127	1.665536284	39.97287	8.97881031	8.892074585	0.036092374	30.2033043	724.8792725	24	20081.96924
	27	482.4041	829.2914429	3.373269	14.93185	0.75931025	0.750412822	0.001854166	1.538382888	36.92119	8.967362404	8.866106033	0.035986975	29.8477249	716.3453979	24	19902.99463
	28	480.6097	826.2073975	3.393175	14.89664	0.77807027	0.764716506	0.00188951	1.561755419	37.48213	8.944628716	8.791242599	0.035683114	29.483984	707.6156006	24	19828.97754
	29	481.8551	828.3467407	3.402778	14.87965	0.80525678	0.788974226	0.001949446	1.615488768	38.77173	8.717598915	8.543136597	0.034676064	28.7268085	689.4434204	24	19880.32178
	30	480.3327	825.7302856	3.408563	14.86941	0.87854844	0.859347343	0.002123327	1.754070401	42.09769	8.631905556	8.445471764	0.034279674	28.3082409	679.3978271	24	19817.52686
	31	477.8517	821.4656982	3.409964	14.86694	0.82528865	0.806869566	0.001993662	1.638442874	39.32263	8.610762596	8.42100811	0.034180362	28.0788498	673.892395	24	19715.17676
Sep 02	01	477.6098	821.0501099	3.405194	14.87537	0.84675145	0.828847885	0.002047969	1.683653355	40.40768	8.471173286	8.296167374	0.033673629	27.6508007	663.6192017	24	19705.20264
	02	476.3232	818.8398438	3.390122	14.90204	0.83864355	0.82455188	0.002037354	1.669349194	40.06438	8.524272919	8.385466576	0.034036111	27.8695374	668.8688965	24	19652.15625
	03	477.7968	821.3712769	3.375282	14.92829	0.76179647	0.753334343	0.001861383	1.530090809	33.662	8.862490654	8.751667023	0.035522476	29.1901779	642.1838989	24	19712.91064
	04	478.7062	822.9345703	3.376067	14.9269	0.78697348	0.777137101	0.001920198	1.580739141	37.93774	8.607898712	8.503565788	0.034515459	28.410862	681.8607178	24	19750.42969
	05	488.4564	839.6955566	3.385034	14.91104	0.91988456	0.905907333	0.002238372	1.880105019	45.12252	8.888666153	8.75663662	0.035542663	29.8499699	716.399292	24	20152.69336
	06	487.9312	838.7937012	3.376258	14.92656	0.86646581	0.855515778	0.002113861	1.774185419	42.58045	9.016807556	8.906398773	0.036150526	30.3234997	727.7639771	24	20131.04883
	07	481.6206	827.9452515	3.390567	14.90125	0.75978702	0.747183442	0.001846187	1.520866275	36.50079	9.903622627	9.73903656	0.039530151	32.610836	782.6600952	24	19870.68604
	08	487.2364	837.5987549	3.394765	14.89382	0.8628093	0.847437978	0.002093901	1.756265402	42.15037	9.339227676	9.173905373	0.037236314	31.1874046	748.4976807	24	20102.37012
	09	485.3595	834.3729248	3.38338	14.91396	0.76614648	0.754955709	0.001865391	1.558691621	37.4086	9.222693443	9.090363503	0.036897238	30.7910576	738.9854126	24	20024.9502
	10	480.6263	826.2357178	3.376386	14.92634	0.72369772	0.714508235	0.001765451	1.459341288	35.02419	9.024438858	8.913366318	0.036178805	29.8951244	717.4830322	24	19829.65723
	11	479.7831	824.7858276	3.38001	14.91992	0.72274381	0.712746978	0.001761099	1.453580022	34.88592	8.995661736	8.875531197	0.036025245	29.7127171	713.1052246	24	19794.85986
	12	480.9175	826.7362671	3.387642	14.90643	0.77330106	0.760842681	0.001879936	1.555304527	37.32731	9.028731346	8.888115883	0.036076326	29.8294258	715.906189	24	19841.67041
	13	480.9592	826.8071899	3.385861	14.90957	0.80064607	0.788368642	0.00194795	1.611357093	38.67257	8.869111061	8.735088348	0.035455186	29.3156204	703.5748901	24	19843.37256
	14	336.5765	730.8491211	2.982535	13.42316	1.43066168	2.797613382	0.006912522	2.740050077	52.06096	8.918725967	9.287781715	0.037698533	29.5105419	560.7002563	18.79167	13733.874

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	486.4675	836.2763062	3.378931	14.92184	0.73562157	0.725749314	0.001793227	1.500814199	36.01954	9.59551239	9.470127106	0.038438674	32.1479836	771.5515747	24	20070.63135
	16	492.9673	847.4502563	3.389867	14.90249	0.81193388	0.79854995	0.001973107	1.673923373	40.17416	9.624127388	9.467735291	0.038428955	32.5656013	781.5744019	24	20338.80615
	17	492.8515	847.25177	3.385925	14.90946	0.83943832	0.826592267	0.002042395	1.731686234	41.56047	9.545589447	9.401704788	0.03816095	32.3350639	776.0415039	24	20334.04248
	18	487.9341	838.7982788	3.397435	14.8891	0.8033489	0.788210988	0.00194756	1.635093689	39.24225	9.305523872	9.134422302	0.037076056	31.1028709	746.4688721	24	20131.15869
	19	483.3957	830.9961548	3.389106	14.90384	0.76741838	0.754871428	0.001865184	1.550815463	37.21957	9.100750923	8.954892159	0.036347356	30.2056541	724.9356689	24	19943.90771
	20	483.5027	831.180481	3.383635	14.91351	0.81797522	0.805982888	0.001991472	1.656087875	39.74611	9.080242157	8.949346542	0.036324851	30.198616	724.7667847	24	19948.33154
	21	484.4066	832.7342529	3.385797	14.90969	0.88252342	0.868937075	0.002147023	1.789170384	42.94009	8.874834061	8.741000175	0.035479184	29.5465469	709.1171265	24	19985.62207
	22	483.5142	831.1992188	3.382999	14.91464	1.00080776	0.986626267	0.002437818	2.025593281	48.61424	8.767521858	8.642289162	0.035078526	29.1601086	699.8425903	24	19948.78125
	23	480.6454	826.2686768	3.374818	14.92911	0.76068819	0.751165569	0.001856029	1.537659764	36.90383	8.697144508	8.593847275	0.034881908	28.8248672	691.796814	24	19830.44824
	24	482.1268	828.8143921	3.383189	14.9143	0.95279372	0.938480437	0.002318857	1.921856284	46.12455	8.78182888	8.656195641	0.035134967	29.1223927	698.9373779	24	19891.54541
	25	482.8244	830.0137939	3.392157	14.89844	1.02227008	1.004721165	0.002482529	2.059942007	49.43861	8.99327755	8.841368675	0.035886567	29.786499	714.8759766	24	19920.33105
	26	485.6562	834.8830566	3.383125	14.91441	1.19270146	1.175881743	0.002905441	2.426646233	58.23951	9.176586151	9.045369148	0.036714584	30.6552296	735.7255249	24	20037.19336
	27	487.6513	838.3117676	3.401568	14.88179	1.01448011	0.996916115	0.002463242	2.065717697	49.57722	9.403775215	9.219573021	0.037421688	31.3725204	752.9404907	24	20119.48242
	28	486.4999	836.3330688	3.406466	14.87313	0.83609992	0.819167018	0.002024049	1.695843458	40.70024	9.317129135	9.120656967	0.037020188	30.9605865	743.0540771	24	20071.99365
	29	486.1044	835.652832	3.372091	14.93394	0.94257569	0.930294633	0.002298632	1.922277331	42.2901	9.18138504	9.078375816	0.036848564	30.8041782	677.6918945	24	20055.66797
	30	490.5412	843.2801514	3.308191	15.04699	0.84410208	0.850387394	0.00210119	1.773260355	42.55825	9.073194504	9.146683693	0.03712583	31.3056965	751.3366699	24	20238.72363
Oct 02	01	495.7749	852.2768555	3.324111	15.01882	0.75883323	0.761290312	0.001881045	1.603506684	38.48416	9.529055595	9.560468674	0.038805354	33.0740471	793.7770996	24	20454.64453
	02	489.9561	842.2740479	3.345989	14.98011	0.7539047	0.751281142	0.001856311	1.564822435	37.55574	9.90759182	9.873250961	0.040074892	33.74049	809.7717896	24	20214.57715
	03	493.6207	848.5743408	3.324555	15.01802	0.719405	0.720878541	0.001781191	1.513860822	36.33266	9.538434982	9.567715645	0.038834758	32.9541435	790.8994141	24	20365.78418
	04	484.2	832.3800659	3.306815	15.04941	0.60382336	0.608509541	0.001503542	1.25374341	30.08984	9.603618622	9.685682297	0.039313592	32.7245255	785.3886108	24	19977.12158
	05	487.1592	837.4663086	3.337403	14.9953	0.73037511	0.72895956	0.001801158	1.511696696	36.28072	9.311882973	9.305150986	0.037769035	31.6295204	759.1085205	24	20099.19141
	06	483.374	830.9584351	3.33308	15.00295	0.74213994	0.741536498	0.001832235	1.524962902	36.59911	8.882624626	8.889057159	0.036080118	29.9778633	719.468689	24	19943.00244
	07	476.6126	819.3356934	3.327164	15.01341	0.67314065	0.674038649	0.001665455	1.366474152	32.79538	8.801384926	8.822526932	0.035810091	29.3375244	704.1005859	24	19664.05664
	08	477.412	820.7102661	3.352156	14.9692	0.67886406	0.674366355	0.001666267	1.370093346	32.88224	8.909651756	8.864622116	0.035980955	29.527216	708.6531982	24	19697.04639
	09	481.8712	828.375	3.392348	14.8981	0.71972311	0.707434118	0.001747973	1.448569179	34.76566	8.909174919	8.758172989	0.035548881	29.4500751	706.8018188	24	19881
	10	485.5084	834.6280518	3.40653	14.87301	0.74182194	0.725913644	0.001793634	1.497799993	35.9472	9.051465988	8.86088562	0.035965782	30.0219784	720.5275269	24	20031.07324
	11	489.6563	841.7594604	3.396862	14.89011	0.83450973	0.818912983	0.00202342	1.704102993	40.89847	8.939064026	8.774614334	0.03561563	29.9829292	719.590271	24	20202.22705
	12	488.8019	840.2905884	3.397053	14.88978	0.98331881	0.964914024	0.00238417	2.004368782	48.10485	8.61521244	8.457139969	0.034327	28.8467541	692.3220825	24	20166.97412
	13	486.077	835.6055908	3.393302	14.89641	0.95708603	0.940238059	0.0023232	1.942595482	46.62229	8.574831009	8.426681519	0.03420338	28.5824032	685.9777222	24	20054.53418
	14	485.8301	835.180603	3.388977	14.90406	0.92846984	0.913051784	0.002256025	1.885649204	45.25558	8.699634552	8.560510635	0.034746587	29.0215797	696.5178833	24	20044.33447
	15	487.8576	838.6660767	3.38834	14.90519	0.89730841	0.882606149	0.002180798	1.830250025	43.926	8.950987816	8.809297562	0.035756413	29.9893837	719.7451782	24	20127.98584
	16	490.1811	842.661377	3.403349	14.87864	0.87457436	0.856843054	0.00211714	1.785107493	42.84258	9.179607391	8.994791985	0.036509313	30.7678299	738.4279175	24	20223.87305
	17	487.0933	837.3530273	3.38478	14.91149	0.87059927	0.857313216	0.002118303	1.774502516	42.58806	9.109334946	8.974692345	0.036427729	30.5054283	732.1303101	24	20096.47266
	18	414.7769	744.0376587	2.551293	14.34239	1.72317362	5.507931232	0.013609401	4.840520859	111.332	7.301122189	9.196428299	0.037327737	29.4602737	677.5863037	22.35	16629.24196
	19	489.2497	841.0603638	3.39807	14.88797	0.99921757	0.980396688	0.002422426	2.038370371	48.92089	9.244473457	9.072313309	0.036823962	30.9731045	743.3544922	24	20185.44873
	20	486.6924	836.6635132	3.395274	14.89293	0.91781759	0.901120663	0.002226545	1.864630818	44.75114	9.281675339	9.116321564	0.037002586	30.9615993	743.0784302	24	20079.92432
	21	484.5744	833.0222778	3.362669	14.9506	0.83376777	0.826545477	0.002042281	1.701966643	40.8472	9.397045135	9.319275856	0.037826363	31.5112743	756.2706299	24	19992.53467
	22	489.8704	842.1278076	3.354129	14.96571	0.8767994	0.871406972	0.002153126	1.814182043	43.54037	9.407273293	9.352632523	0.037961755	31.9696827	767.2723999	24	20211.06738
	23	490.9948	844.0593872	3.34529	14.98135	0.90589416	0.902731895	0.002230526	1.883975387	45.21541	9.343044281	9.313188553	0.037801668	31.9101162	765.8427734	24	20257.42529
	24	495.7344	852.2061157	3.341855	14.98742	0.95851755	0.95616436	0.002362551	2.013858795	48.33261	9.41108799	9.390958786	0.038117319	32.4849358	779.6384888	24	20452.94678
	25	493.0634	847.6155396	3.340201	14.99035	0.90986836	0.908417165	0.002244574	1.903194547	45.67667	9.525399208	9.510328293	0.038601834	32.7218475	785.3242798	24	20342.77295
	26	270.407	656.2399902	2.618598	12.57978	5.20338774	13.43592644	0.033198297	7.652179241	130.0871	9.65667057	10.44842052	0.042409513	32.6445274	554.9569702	16.83333	11046.70567
	27	501.2996	861.7745361	3.388278	14.9053	0.57679611	0.56759578	0.001402452	1.208949566	29.01479	12.00491238	11.81550026	0.047958404	41.3298912	991.9174194	23.9	20596.41108
	28	501.4012	861.9490967	3.394701	14.89394	0.60080272	0.590006173	0.001457826	1.257204533	30.17291	11.87502956	11.6656332	0.047350105	40.8141174	979.5388184	24	20686.77832
	29	499.7666	859.1391602	3.406529	14.87301	0.5839504	0.571445346	0.001411963	1.213672519	29.12814	11.92430401	11.6742878	0.047385234	40.7102432	977.0457764	24	20619.33984
	30	501.7356	862.5253906	3.423826	14.84241	0.58220148	0.566970646	0.001400907	1.208752871	29.01007	12.00952911	11.69717503	0.047478143	40.9514999	982.8359985	24	20700.60938
	31	505.8407	869.5811768	3.420584	14.84815	0.62687612	0.610932946	0.001509533	1.313244581	31.51787	12.09600449	11.79246712	0.047864925	41.6231689	998.9561157	24	20869.94824
Nov 02	1	505.8682	869.6282349	3.390312	14.9017	0.56677997	0.55726999	0.001376938	1.19803369	28.75281	12.05500031	11.85827541	0.048132017	41.8528328	1004.468018	24	20871.07764
	2	507.6983	872.7736816	3.392538	14.89776	0.64054859	0.629305422	0.001554927	1.358333707	32.60001	11.95563316	11.75277901	0.047703825	41.6314507	999.1547852	24	20946.56836
	3	506.3676	870.487854	3.396226	14.89124	0.63053274	0.619040608	0.001529565	1.331920028	31.96608	11.90395832	11.68899155	0.047444958	41.3026962	991.2647095	24	20891.7085
	4	503.9811	866.3839111	3.389655	14.90286	0.64521235	0.634504318	0.001567772	1.359269619	32.62247	11.82489586	11.63380814	0.047220927	40.9110794	981.8659058	24	20793.21387
	5	504.9533	868.0557251	3.38338	14.91396	0.67123282	0.661184609	0.001633695	1.419349551	34.06439	11.60840034	11.44388771	0.046449974	40.3190079	967.656189	24	20833.3374
	6	503.863	866.1808472	3.390439	14.90147	0.72894406	0.716773927	0.001771051	1.534570813	36.8297	11.52192497	11.33329582	0.046001151	39.84692	956.3261108	24	20788.34033

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	7	498.6459	857.2122803	3.392411	14.89799	0.65104175	0.639740229	0.00158071	1.356936693	32.56648	11.14559555	10.95651627	0.044471867	38.1371956	915.2927246	24	20573.09473
	8	477.8795	821.5128784	3.412061	14.86322	0.54166031	0.529058039	0.00130723	1.077032089	25.84877	10.68678284	10.44399166	0.042391591	34.8190613	835.6575317	24	19716.30908
	9	473.0661	813.2385864	3.434509	14.82351	0.54118317	0.525371611	0.001298122	1.061044574	25.46507	10.80044556	10.48619747	0.042562872	34.5894585	830.1469727	24	19517.72607
	10	490.9999	844.0687256	3.408628	14.8693	0.72544646	0.709788442	0.001753791	1.48195672	35.56696	10.66832924	10.43628311	0.042360272	35.7537155	858.0892334	24	20257.64941
	11	494.912	850.7939453	3.393937	14.89529	0.80636978	0.792024493	0.001956984	1.665862083	39.98069	10.36482048	10.18395329	0.04133603	35.1703033	844.0872803	24	20419.05469
	12	487.121	837.4003296	3.403774	14.87789	0.76529872	0.749727726	0.001852473	1.552083373	37.25	10.21687698	10.01001835	0.040630046	34.0294609	816.7070923	24	20097.60791
	13	488.3076	839.4405518	3.418293	14.8522	0.78411186	0.764790535	0.001889691	1.586896658	38.08552	10.38199997	10.12811279	0.041109405	34.5097885	828.2348633	24	20146.57324
	14	488.7554	840.2103882	3.230311	15.18479	0.82640153	0.867218316	0.002142775	1.801627874	43.23907	9.902497292	10.24599457	0.041587863	34.9425049	838.6201172	24	20165.04932
	15	487.9593	838.8406982	3.421854	14.8459	0.81304705	0.791994393	0.001956909	1.642927527	39.43026	10.33939743	10.07649517	0.040899895	34.313282	823.5187988	24	20132.17676
	16	491.3429	844.6593018	3.425606	14.83926	0.88474941	0.860912859	0.002127198	1.796823382	43.12376	10.49186325	10.21472359	0.041460916	35.0332909	840.7990112	24	20271.82324
	17	494.7003	850.4304199	3.424971	14.84039	0.87854827	0.855041981	0.002112692	1.797919154	43.15006	10.40346622	10.12913799	0.041113488	34.9671822	839.2124023	24	20410.33008
	18	494.9725	850.8977661	3.423382	14.8432	0.83456308	0.812647998	0.002007941	1.70908463	41.01803	10.1164484	9.854732513	0.039999772	34.0375748	816.9017944	24	20421.54639
	19	494.2218	849.6085205	3.424082	14.84196	0.95215827	0.926691711	0.002289728	1.946760893	46.72226	9.814435005	9.557985306	0.038795277	32.9622154	791.0932007	24	20390.60449
	20	486.0624	835.5819702	3.408883	14.86885	0.82067812	0.802736044	0.001983452	1.659791231	39.83499	9.799529076	9.584939003	0.038904686	32.4853592	747.163269	24	20053.96728
	21	483.5414	831.246582	3.415687	14.85681	0.79603589	0.776517749	0.001918668	1.596038699	38.30493	10.01635075	9.78092289	0.039700143	33.004467	792.1072388	24	19949.91797
	22	485.3797	834.406189	3.42618	14.83825	0.793015	0.771627188	0.001906584	1.591309547	38.19143	10.104743	9.835463524	0.039921522	33.3135681	799.5255737	24	20025.74854
	23	493.6325	848.5931396	3.427068	14.83667	0.74182195	0.721628964	0.001783047	1.513693333	36.32864	10.38868332	10.10900021	0.041031823	34.8195725	835.6696777	24	20366.23535
	24	495.1435	851.1907349	3.421029	14.84736	0.78983522	0.769780695	0.001902023	1.619594574	38.87027	10.3203125	10.06006813	0.040833198	34.7576408	834.1834106	24	20428.57764
	25	492.8622	847.270813	3.411362	14.86446	0.76407969	0.746849716	0.001845362	1.563748717	37.52997	10.46244621	10.2276001	0.041513264	35.1729355	844.1505127	24	20334.49951
	26	496.0552	852.7585449	3.408945	14.86874	0.7858606	0.768357754	0.001898506	1.619724631	38.87339	10.40917969	10.18284416	0.041331541	35.2469177	845.9260254	24	20466.20508
	27	497.9475	856.0126953	3.400995	14.8828	0.7260825	0.71138382	0.001757732	1.504651308	36.11163	10.68121243	10.47557068	0.042519659	36.4025307	873.6607056	24	20544.30469
	28	496.7091	853.8825684	3.409645	14.8675	0.76535165	0.748157144	0.001848594	1.579840779	37.91618	10.52031708	10.28922462	0.041763328	35.6625404	855.901001	24	20493.18164
	29	494.096	849.3913574	3.410535	14.86592	0.7211538	0.70515883	0.00174235	1.4805125	35.5323	10.70585823	10.46837044	0.042490467	36.0936165	866.2468262	24	20385.39258
	30	492.4368	846.5388184	3.418674	14.85153	0.65612918	0.639957488	0.001581248	1.338827968	32.13187	10.50282955	10.24531651	0.041585147	35.2040672	844.897583	24	20316.93164
Dec 02	01	494.2944	849.7313843	3.417912	14.85287	0.59937179	0.584634006	0.00144455	1.227872133	29.46893	10.46532059	10.21086216	0.041445252	35.2175217	845.22052	24	20393.55322
	02	494.8952	850.765686	3.402904	14.87943	0.61781412	0.605396092	0.001495851	1.272742867	30.54583	10.7069664	10.49258327	0.042588729	36.2362213	869.6693115	24	20418.37646
	03	495.6836	852.1208496	3.413335	14.86098	0.60843396	0.594382823	0.001468639	1.251792073	30.04301	10.57245445	10.32930851	0.041925982	35.7271042	857.4505005	24	20450.90039
	04	496.3025	853.1836548	3.418802	14.8513	0.62910187	0.613593519	0.001516107	1.293590426	31.04617	10.53065872	10.2716198	0.041691903	35.5747566	853.7941895	24	20476.40771
	05	495.6483	852.0596313	3.4099	14.86705	0.75978708	0.742697537	0.001835104	1.563832045	37.53197	10.59058285	10.35737038	0.042039938	35.8232918	859.7589722	24	20449.43115
	06	492.5391	846.7134399	3.412506	14.86244	0.63657415	0.621862888	0.001536539	1.30180335	31.24328	10.69599628	10.45259953	0.042426433	35.924633	862.1912231	24	20321.12256
	07	493.6404	848.6073608	3.425223	14.83994	0.6734587	0.655516446	0.001619693	1.375078797	33.00189	10.47007942	10.19355774	0.041375007	35.1119766	842.6873779	24	20366.57666
	08	325.4938	746.03302	2.95861	13.53679	4.00739479	12.86276722	0.031782001	8.143889427	146.59	9.518014908	9.95125103	0.040391471	32.4772949	584.5913086	17.54722	13090.80712
	09	504.6483	867.5316162	3.41098	14.86514	0.61415744	0.600281894	0.001483214	1.287765026	30.90636	11.11270428	10.86477947	0.044099495	38.2605324	918.2528076	24	20820.75879
	10	503.0825	864.8395386	3.414796	14.85839	0.60445935	0.590064228	0.001457967	1.261675835	30.28022	11.18646622	10.9313879	0.044369865	38.2692795	918.4627075	24	20756.14893
	11	504.2206	866.7947388	3.406403	14.87324	0.59698707	0.584270179	0.00144365	1.251501203	30.03603	10.82572937	10.59776688	0.04301573	37.2860451	894.8651123	24	20803.07373
	12	504.8247	867.8336792	3.398706	14.88685	0.64356953	0.631233633	0.001559693	1.353741288	32.48979	10.78630447	10.58426666	0.042960905	37.2868996	894.8856201	24	20828.0083
	13	503.3326	865.2692871	3.40284	14.87954	0.63148671	0.618669987	0.001528649	1.323090434	31.75417	10.77740383	10.56260014	0.04287295	37.0980339	890.3527832	24	20766.46289
	14	501.8213	862.6716309	3.408755	14.86907	0.62210655	0.60838443	0.001503235	1.297506213	31.14015	10.79424953	10.56027889	0.042863544	36.9775429	887.4609985	24	20704.11914
	15	501.2107	861.62323	3.425924	14.8387	0.54499924	0.530393958	0.001310531	1.129426241	27.10623	10.64290047	10.36030388	0.042051818	36.234539	869.6289063	24	20678.95752
	16	500.7031	860.7496338	3.37522	14.9284	0.54367411	0.537148178	0.00132722	1.142870784	27.4289	10.75520039	10.62754631	0.043136474	37.1328049	891.1873169	24	20657.99121
	17	508.3157	873.8363037	3.38423	14.91246	0.62194765	0.612839758	0.001514242	1.323952198	30.4509	10.58173466	10.42730427	0.042323779	36.9907646	850.7875977	24	20972.07129
	18	514.5109	884.486145	3.390631	14.90114	0.72274375	0.710742891	0.001756148	1.553525805	37.28462	10.35721207	10.18650436	0.041346423	36.5708733	877.7009888	24	21227.66748
	19	506.0275	869.9020996	3.178927	15.2757	0.63736904	0.665576518	0.001644548	1.430484533	34.33163	10.03001308	10.53797913	0.042773012	37.1972466	892.7338867	24	20877.65039
	20	488.9262	840.5031738	3.218673	15.20537	0.60795707	0.631792247	0.001561073	1.309455037	31.42692	10.03127384	10.42090416	0.042297836	35.4878426	851.7081909	24	20172.07617
	21	502.8846	864.4995728	3.370154	14.93736	0.58474505	0.578526855	0.001429461	1.236257553	29.67018	10.41014957	10.30092525	0.04181084	36.1454124	867.4899292	24	20747.98975
	22	497.7338	855.6443481	3.412507	14.86244	0.72703624	0.710169196	0.00175473	1.500361681	36.00868	10.59345436	10.35127449	0.042015199	35.9443893	862.6652832	24	20535.46436
	23	485.2393	834.1651611	3.444049	14.80664	0.76296693	0.738323092	0.001824293	1.519704223	36.4729	10.91379166	10.56780052	0.042894088	35.7795563	858.7092896	24	20019.96387
	24	481.8847	828.3986816	3.456705	14.78425	0.77981913	0.752146065	0.00185845	1.539364576	36.94475	10.6373415	10.26210785	0.041653238	34.5065041	828.1561279	24	19881.56836
	25	479.3788	824.0914917	3.446148	14.80293	0.86646646	0.838045478	0.002070695	1.705917478	40.94202	10.61475849	10.27129555	0.041690607	34.3576126	824.5827026	24	19778.1958
	26	488.5139	839.7947388	3.39133	14.8999	0.65835524	0.646072507	0.001596355	1.337512016	32.10029	10.25418854	10.08239269	0.040923834	34.3649979	824.7598877	24	20155.07373
	27	493.5328	848.4232178	3.383318	14.91407	0.5798167	0.571154654	0.001411245	1.19850409	28.7641	9.808706284	9.666350365	0.039235134	33.2721214	798.5308838	24	20362.15723
	28	494.8211	850.6381836	3.379375	14.92105	0.53879851	0.531185687	0.001312486	1.116671562	26.80012	10.29884911	10.16442966	0.041256785	35.0958786	842.3010864	24	20415.31641
	29	482.4781	829.4189453	3.450091	14.79595	0.61304456	0.592351735	0.00146362	1.213282466	29.11878	10.57675362	10.22296238	0.041494355	34.4130058	825.9121094	24	19906.05469

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	487.9308	838.793396	3.394064	14.89507	0.6472261	0.633767903	0.001565954	1.313363314	31.52072	10.2031641	10.03632832	0.040736869	34.1526833	819.6644287	24	20131.0415
	31	495.5241	851.847168	3.257528	15.13664	0.55835378	0.569403231	0.001406917	1.197057486	28.72938	9.820480347	10.08527374	0.040935487	34.8709221	836.9020996	24	20444.33203
Jan 03	01	478.6871	822.9013672	3.455814	14.78582	0.63418937	0.611747503	0.001511544	1.243049145	29.83318	10.45338249	10.08639622	0.040940005	33.6814232	808.354187	24	19749.63281
	02	489.6616	841.7688599	3.432793	14.82655	0.71988213	0.698950946	0.001727012	1.452014208	34.84834	10.05005264	9.761063576	0.039619569	33.3269577	799.8469849	24	20202.45264
	03	384.2937	720.6899414	2.931095	13.57668	5.22618628	25.12940025	0.062091317	6.210424423	136.6293	8.95388031	9.418463707	0.038228974	29.6691093	652.7203979	20.87222	15042.4011
	04	500.324	860.0979614	3.430121	14.83127	0.84818274	0.824069917	0.002036164	1.750126719	42.00304	10.16356277	9.880496025	0.040104337	34.4909782	827.7835083	24	20642.35107
	05	499.8186	859.2288818	3.428278	14.83454	0.84134597	0.818346679	0.002022022	1.737160444	41.69185	10.45895386	10.17290401	0.041291177	35.4669113	851.2059326	24	20621.49316
	06	500.0247	859.5831909	3.417912	14.85287	0.7305339	0.712591052	0.001760715	1.512249947	36.294	10.29153633	10.04000378	0.040751785	35.0185776	840.4459229	24	20629.99658
	07	502.646	864.088562	3.419247	14.85051	0.87966132	0.857195437	0.002118011	1.826034188	43.82482	10.31172943	10.05588722	0.040816266	35.2598839	846.2371826	24	20738.12549
	08	502.7086	864.1972046	3.409708	14.86739	0.78888106	0.771343946	0.001905883	1.646607041	39.51857	10.19186974	9.967534065	0.040457625	34.9645844	839.1500244	24	20740.73291
	09	501.9423	862.8793945	3.412189	14.863	0.69476241	0.678598583	0.001676724	1.447195888	34.7327	9.935416222	9.71134758	0.039417747	34.0135765	816.3258057	24	20709.10547
	10	502.6898	864.1642456	3.424716	14.84084	0.73053402	0.71108973	0.001757005	1.518880367	36.45313	9.713637352	9.458699226	0.03839229	33.1784439	796.2827148	24	20739.94189
	11	502.6104	864.0270996	3.422299	14.84511	0.77632159	0.756231606	0.001868543	1.61472249	38.75334	9.782159805	9.532025337	0.038689911	33.4311371	802.34729	24	20736.65039
	12	503.6101	865.7462769	3.427069	14.83667	0.83498681	0.812270641	0.002007009	1.73797214	41.71133	9.780408859	9.517035484	0.038629059	33.4442215	802.6613159	24	20777.91064
	13	505.6011	869.170166	3.404431	14.87673	0.84532064	0.827879608	0.002045577	1.778368711	42.68085	9.799965858	9.599122047	0.038962252	33.8683434	812.84021	24	20860.08398
	14	502.8709	864.475769	3.42249	14.84478	0.93276244	0.908477485	0.002244723	1.941036701	46.58488	10.16880512	9.907197952	0.040212709	34.7488403	833.972168	24	20747.41846
	15	501.8792	862.7709351	3.421919	14.84579	0.86058319	0.838510275	0.002071843	1.787727952	42.90547	10.01793385	9.761443138	0.039621107	34.1729012	820.1495972	24	20706.50244
	16	489.2476	841.0556641	3.427705	14.83555	0.92290539	0.897366941	0.00221727	1.862355471	44.69653	10.1414566	9.864325523	0.040038671	33.6448517	807.4763794	24	20185.33594
	17	490.4778	843.1715698	3.438771	14.81598	1.01400411	0.982833326	0.002428445	2.043093443	49.03424	10.40140438	10.08632088	0.040939756	34.5105057	828.2520752	24	20236.11768
	18	28.90942	298.1849976	1.340433	10.69094	37.4885216	126.4591675	0.312463433	39.60624695	158.425	5.543155193	8.644397736	0.035087101	16.2131634	64.8526535	3.388889	1010.51588
	19	512.2557	880.6087036	3.423572	14.84286	0.95009154	0.925194621	0.002286029	2.012440443	48.29857	10.66150379	10.38476276	0.042151101	37.1190948	890.8582764	24	21134.60889
	20	491.8273	845.4903564	3.458676	14.78076	1.15756738	1.115304112	0.002755763	2.323081732	55.75396	10.89042473	10.49934196	0.04261623	36.0182114	864.4371338	24	20291.76855
	21	502.017	863.006897	3.44513	14.80472	1.0458014	1.011517882	0.00249932	2.155795097	51.73908	10.27850437	9.946520805	0.04037232	34.8225479	835.7410889	24	20712.16553
	22	509.9099	876.5755005	3.416957	14.85456	0.87934333	0.857889235	0.002119725	1.859367132	44.62481	9.851153374	9.6147089	0.039025515	34.2131271	821.1149902	24	21037.81201
	23	506.8163	871.2576904	3.410982	14.86514	0.81654459	0.79789722	0.001971493	1.718948722	41.25477	9.7269907	9.509825706	0.038599808	33.6307907	807.1389771	24	20910.18457
	24	505.9948	869.8457031	3.413205	14.8612	0.82862753	0.809390545	0.001999892	1.740096211	41.76231	9.716341972	9.493069649	0.03853178	33.517086	804.4100952	24	20876.29688
	25	506.9372	871.4655762	3.418611	14.85164	0.81129801	0.791217983	0.001954991	1.704141617	40.8994	9.755765915	9.51638031	0.038626403	33.6611252	807.8670044	24	20915.17383
	26	505.1099	868.3250122	3.405512	14.87481	0.78061408	0.764180481	0.001888184	1.640084147	39.36202	9.891539574	9.686115265	0.039315347	34.138649	819.3275757	24	20839.80029
	27	506.058	869.9542236	3.396607	14.89056	0.88586229	0.869594216	0.002148648	1.870975018	44.9034	10.25751972	10.07069969	0.040876325	35.5634117	853.5219116	24	20878.90137
	28	504.5988	867.4465332	3.381663	14.917	0.78866935	0.777553916	0.001921228	1.666700363	40.00081	10.13732147	9.997091293	0.040577576	35.1986656	844.7680054	24	20818.7168
	29	503.6322	865.7841187	3.391965	14.89878	2.39065242	2.338030577	0.005776947	4.834363937	116.0247	10.31157398	10.13625813	0.041142456	35.5634346	853.5223999	24	20778.81885
	30	504.583	867.4181519	3.415943	14.85636	0.89762652	0.875891745	0.002164207	1.878037095	45.07289	10.00155926	9.763886452	0.039631024	34.3780403	825.072998	24	20818.03564
	31	504.7581	867.7203369	3.405258	14.87526	0.89842218	0.879630983	0.002173447	1.887739182	45.30574	10.28502941	10.07198238	0.040881537	35.4767113	851.4411011	24	20825.28809
Feb 03	01	507.3433	872.1644287	3.405256	14.87526	0.83769011	0.820795536	0.002028072	1.769299626	42.46319	10.69012547	10.46923351	0.042493954	37.0624008	889.4976196	24	20931.94629
	02	495.7419	852.2202759	3.426497	14.83769	0.72687739	0.706647396	0.001746029	1.488558769	35.72541	11.04767036	10.75249577	0.043643717	37.178463	892.2830811	24	20453.28662
	03	501.1677	861.5478516	3.403667	14.87807	0.72687727	0.71186161	0.001758912	1.513837457	36.3321	10.96260834	10.7399292	0.043592747	37.5472984	901.1351929	24	20677.14844
	04	504.5773	867.4087524	3.388723	14.90451	0.7357806	0.723445773	0.001787534	1.54772079	37.1453	10.86881256	10.69482517	0.043409683	37.6453133	903.4874878	24	20817.81006
	05	499.2971	858.3314209	3.399469	14.8855	0.70748121	0.693308949	0.00171307	1.467029572	35.20871	11.08455849	10.87230015	0.044130009	37.8642235	908.741394	24	20599.9541
	06	497.3016	854.902832	3.391521	14.89956	0.62353724	0.612079024	0.001512364	1.293018937	31.03245	11.39345455	11.20192528	0.045467928	38.8440475	932.2570801	24	20517.66797
	07	496.8542	854.1332397	3.316736	15.03187	0.31192771	0.314211786	0.000776374	0.668805063	16.05132	11.50522232	11.54675007	0.046867553	39.9832573	959.5982056	24	20499.19775
	08	493.3544	848.1162109	3.410535	14.86592	0.42019609	0.411205888	0.001016034	0.865215838	20.76518	11.60269547	11.34141636	0.046034079	38.9941025	935.8585205	24	20354.78906
	09	491.951	845.7029419	3.405321	14.87515	0.40827221	0.399977744	0.000988291	0.838716924	20.12921	11.30314636	11.06446266	0.044909924	37.9332123	910.3970947	24	20296.87061
	10	500.1457	859.7907715	3.363286	14.94951	0.60981172	0.604712725	0.001494162	1.288117528	30.91482	10.7386713	10.64507103	0.043207716	37.1218796	890.9251099	24	20634.97852
	11	497.3076	854.9123535	3.39114	14.90024	0.69094682	0.679978848	0.001680133	1.437580466	34.50193	10.31555462	10.14591217	0.041181643	35.2066307	844.9591064	24	20517.89648
	12	492.6432	846.8930054	3.397308	14.88933	0.51749462	0.507971346	0.001255126	1.063150287	25.51561	9.92555809	9.743396759	0.039547853	33.4914818	803.7955933	24	20325.43213
	13	498.9008	857.6514893	3.430631	14.83037	0.70954812	0.689472437	0.001703592	1.462037921	35.08891	9.827470779	9.553103447	0.038775455	33.2587318	798.2095947	24	20583.63574
	14	503.6319	865.7840576	3.428723	14.83375	0.73101079	0.710657179	0.001755936	1.521383286	36.5132	9.856562614	9.586663246	0.038911678	33.6894073	808.5457764	24	20778.81738
	15	501.4456	862.0247192	3.42442	14.84136	0.80525661	0.783814073	0.001936696	1.670112133	40.08269	9.824662209	9.567522049	0.038833991	33.4767532	803.4420776	24	20688.59326
	16	499.8544	859.2902222	3.438643	14.8162	0.73784721	0.715311706	0.001767436	1.519595385	36.47029	10.07565784	9.770866394	0.039659359	34.0717812	817.7227783	24	20622.96533
	17	498.3086	856.6313477	3.431649	14.82858	0.81765741	0.79448843	0.001963071	1.681565046	40.35756	10.39328289	10.09793186	0.040986899	35.0905609	842.1735229	24	20559.15234
	18	503.6952	865.8927002	3.412443	14.86255	0.84420818	0.824256241	0.002036622	1.763161659	42.31588	10.23684883	10.00310421	0.040601987	35.1496048	843.5905151	24	20781.4248
	19	500.7173	860.7731934	3.413907	14.85996	0.79555863	0.776761293	0.001919271	1.650334597	39.60803	10.52651691	10.28097534	0.041729823	35.9030266	861.6726074	24	20658.55664
	20	490.1542	842.6141968	3.444622	14.80562	0.83816642	0.811017454	0.002003912	1.686450005	40.4748	10.59887505	10.25929356	0.041641828	35.0693665	841.6647949	24	20222.74072

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	497.7065	855.5970459	3.427135	14.83656	0.84500307	0.821875095	0.00203074	1.737031698	41.68876	10.38326836	10.10108852	0.040999729	35.0568428	841.3641968	24	20534.3291
	22	503.5084	865.5714722	3.407167	14.87189	0.77473152	0.758117139	0.001873203	1.622198343	38.93276	10.14003468	9.924675941	0.040283661	34.8698921	836.8773804	24	20773.71533
	23	501.1754	861.5620117	3.392092	14.89855	0.66630423	0.654644132	0.001617536	1.394411683	33.46588	10.33319187	10.1589613	0.041234583	35.5275345	852.6607666	24	20677.48828
	24	498.5987	857.131897	3.364239	14.94782	0.6351434	0.629309952	0.001554938	1.333846688	32.01232	10.4878912	10.39641666	0.042198438	36.1687546	868.0501099	24	20571.16553
	25	501.154	861.524231	3.374668	14.92937	0.64134377	0.633619905	0.001565588	1.349333286	32.384	10.56005383	10.43533325	0.042356342	36.489624	875.7509766	24	20676.58154
	26	503.1378	864.93396	3.375306	14.92825	0.71097893	0.702037275	0.001734638	1.500859141	36.02062	10.46642494	10.34052944	0.041971594	36.293045	871.0330811	24	20758.41504
	27	504.4502	867.1914673	3.365066	14.94636	0.73816526	0.731442273	0.001807294	1.567055821	37.60934	10.56054592	10.46469593	0.042475574	36.8224106	883.737915	24	20812.59521
	28	500.0904	859.6964722	3.374414	14.92982	0.69412661	0.685541391	0.001693878	1.455364943	34.92876	10.54925823	10.42436695	0.042311899	36.3642616	872.7423096	24	20632.71533
Mar 03	01	505.2668	868.5941162	3.36939	14.93871	0.65756023	0.650867224	0.001608204	1.39746213	33.53909	10.46579552	10.35888767	0.042046119	36.5223961	876.5374756	24	20846.25879
	02	507.2173	871.9472046	3.362141	14.95154	0.75676632	0.750593185	0.001854612	1.617821693	38.82772	10.20966148	10.12682247	0.041104142	35.839962	860.1591187	24	20926.73291
	03	506.3161	870.3983154	3.361887	14.95199	0.70159864	0.696151972	0.001720097	1.497523308	35.94056	10.4826622	10.39826679	0.042205967	36.7363243	881.671814	24	20889.55957
	04	499.4016	858.5111084	3.39082	14.9008	0.68840301	0.676794529	0.001672268	1.434768796	34.43445	10.75815868	10.5795002	0.0429415	36.8536949	884.4887085	24	20604.2666
	05	503.2692	865.1606445	3.398705	14.88685	0.7696442	0.75466609	0.001864677	1.614655018	38.75172	10.42652035	10.22995377	0.041522715	35.9142342	861.9415894	24	20763.85547
	06	503.4395	865.4534912	3.386115	14.90913	0.75676626	0.744524598	0.001839617	1.593539596	38.24495	10.15450478	10.0008316	0.040592764	35.1339302	843.2142944	24	20770.88379
	07	502.3848	863.6399536	3.372443	14.93331	0.77457273	0.765390635	0.001891175	1.634634972	39.23124	10.13685799	10.02395058	0.0406866	35.1378403	843.3082275	24	20727.35889
	08	61.23641	420.9859924	1.649368	8.405838	0.52274001	0.617624164	0.001526065	1.052868366	6.31721	6.600406647	8.640934944	0.035072953	22.3779335	134.2675934	5.094444	2144.689478
	09	501.352	861.8641968	3.379438	14.92094	0.76900816	0.758684099	0.001874605	1.616042972	38.78503	9.843687057	9.713733673	0.039427452	33.9809914	815.5438232	24	20684.74072
	10	504.5603	867.3803101	3.383381	14.91396	0.7585153	0.747428596	0.001846793	1.603073716	38.47377	9.931758881	9.788962364	0.039732799	34.468441	827.2426147	24	20817.12744
	11	499.3846	858.482666	3.395845	14.89191	0.67981797	0.667303801	0.001648817	1.415670037	33.97608	9.837960243	9.662565231	0.039219756	33.6749496	808.1987915	24	20603.58398
	12	495.0054	850.9545898	3.403286	14.87875	0.69444454	0.680286169	0.001680895	1.430875063	34.341	9.57420826	9.381002426	0.038076915	32.4065094	777.7562256	24	20422.91016
	13	492.2033	846.1373901	3.382427	14.91565	0.63736892	0.627975583	0.001551641	1.314287901	31.54291	9.570233345	9.434643745	0.038294647	32.4090424	777.8170166	24	20307.29736
	14	458.118	787.5421143	3.114633	14.08319	1.5294311	4.581023693	0.01131909	2.916107416	69.98658	9.056870461	9.27848053	0.037660796	30.9612331	743.0695801	24	18901.01074
	15															0	0
	16															0	0
	17															0	0
	18															0	0
	19															0	0
	20	77.63741	457.3672791	1.803594	8.756486	8.30117321	16.54289436	0.040875241	11.61530685	81.30715	4.63653183	5.008375645	0.020328658	15.7126713	109.9887009	5.833333	2667.975649
	21	501.8794	862.7709961	3.353554	14.96673	3.57317758	3.550803423	0.008773549	7.574223995	181.7814	8.05129528	8.005461693	0.032493673	28.0275536	672.6613159	24	20706.50391
	22	495.6403	852.0454712	3.333205	15.00272	3.12579536	3.126899719	0.007726139	6.595129967	158.2831	7.955110073	7.958960533	0.032304935	27.5272255	660.6533813	24	20449.09131
	23	501.0271	861.3068237	3.344398	14.98293	3.94297552	3.929646969	0.009709629	8.377599716	201.0624	7.927129269	7.904379368	0.032083392	27.6324959	663.1798706	24	20671.36377
	24	507.1347	871.805481	3.364494	14.94738	4.54653358	4.506023407	0.011133762	9.707288742	232.9749	7.880069733	7.81040144	0.031701948	27.6378326	663.3079834	24	20923.33154
	25	509.0083	875.0265503	3.377657	14.92409	5.19163942	5.124979973	0.01266312	11.08380222	266.0113	7.775457382	7.676850796	0.031159854	27.2659874	654.383728	24	21000.63721
	26	506.453	870.6342773	3.360742	14.95401	5.08973026	5.048958778	0.012475279	10.86813545	260.8352	7.727602482	7.668426514	0.031125657	27.1012001	650.428833	24	20895.22266
	27	498.2391	856.5131836	3.373842	14.93084	4.60657644	4.54908514	0.011240162	9.599882126	230.3972	8.363382339	8.265674591	0.033549875	28.7254505	689.4108276	24	20556.31641
	28	508.0167	873.3215942	3.373523	14.9314	4.08240461	4.033856869	0.009967102	8.70627594	208.9506	8.257339478	8.163434982	0.033134896	28.9374886	694.4996948	24	20959.71826
	29	508.7331	874.5540771	3.387706	14.90631	4.42453861	4.354952335	0.010760499	9.418070793	226.0337	8.086909294	7.96073246	0.032312132	28.2633629	678.3206787	24	20989.29785
	30	505.3705	868.7734985	3.371299	14.93534	4.25601578	4.208183765	0.010397846	9.046399117	217.1136	7.923949718	7.838189602	0.031814728	27.64007	663.3616943	24	20850.56396
	31	500.5163	860.4284668	3.35839	14.95817	3.8172183	3.791062117	0.009367191	8.066914558	193.606	7.869417191	7.814489841	0.031718526	27.2917213	655.0012817	24	20650.2832
Apr 03	01	503.8382	866.1383057	3.383763	14.91329	3.89623332	3.840450048	0.009489221	8.221487999	197.3157	8.169102669	8.050720215	0.032677379	28.3019867	679.2476807	24	20787.31934
	02	494.3437	849.8163452	3.414288	14.85929	4.1272378	4.028902054	0.009954856	8.458046913	202.9931	8.497087479	8.298786163	0.033684265	28.605629	686.5350952	24	20395.59229
	03	488.4997	839.7711792	3.406909	14.87234	4.66460562	4.554473877	0.011253477	9.409761429	225.8343	8.535561562	8.356877327	0.033920057	28.4938755	683.8530273	24	20154.5083
	04	493.9646	849.1646729	3.402459	14.88021	4.70578241	4.606611729	0.01138231	9.626712799	231.0411	8.430315971	8.263095856	0.033539407	28.4741383	683.3792725	24	20379.95215
	05	520.0686	894.0402832	3.378165	14.92319	4.98702765	4.922319412	0.012162367	10.87586403	261.0208	8.176257133	8.071418762	0.032761391	29.2885551	702.925293	24	21456.9668
	06	473.5084	849.3903809	3.393254	14.8965	5.02020597	4.923689842	0.012165769	10.28595638	236.577	8.279085159	8.136142731	0.033024114	28.0430775	644.9907837	24	20385.36914
	07	509.8048	876.3960571	3.372825	14.93264	4.58861065	4.535656929	0.011206981	9.822323799	235.7358	7.947956085	7.859743118	0.031902224	27.9622993	671.0952148	24	21033.50537
	08	505.9231	869.7229004	3.381855	14.91666	4.58940601	4.524786472	0.011180127	9.733393669	233.6014	7.815998554	7.707307339	0.031283475	27.2087116	653.0090942	24	20873.34961
	09	503.0962	864.8630371	3.383699	14.9134	4.22755671	4.166038036	0.010293704	8.912970543	213.9113	7.870372295	7.757724285	0.031488121	27.2356548	653.6557007	24	20756.71289
	10	503.6184	865.7605591	3.402523	14.8801	4.47414303	4.384912491	0.010834517	9.381831169	225.1639	7.720766544	7.567131996	0.030714529	26.5913544	638.1925049	24	20778.25342
	11	504.4698	867.2244873	3.396481	14.89079	4.52310944	4.440880299	0.010972812	9.51885891	228.4526	7.692626476	7.553024292	0.030657267	26.5868702	638.0848999	24	20813.3877
	12	505.2961	868.6462402	3.390376	14.90159	3.62818503	3.570837975	0.008823046	7.678998947	184.296	8.087862015	7.955138206	0.03228943	28.0435581	673.0454102	24	20847.50977
	13	504.5081	867.2906494	3.405639	14.87459	3.70751834	3.630655766	0.008970848	7.782040596	186.769	7.860355377	7.697810173	0.03124493	27.1002369	650.4057007	24	20814.97559
	14	501.6895	862.4451294	3.398261	14.88764	3.68176365	3.610668421	0.008921467	7.683024406	184.3926	8.2780056	8.124157906	0.032975461	28.4376545	682.5037231	24	20698.68311

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	501.5027	862.1238403	3.405257	14.87526	4.32771683	4.23829937	0.010472258	9.037177086	216.8923	8.245256424	8.073911667	0.032771524	28.2432995	677.8391724	24	20690.97217
	16	510.5363	877.6523438	3.35966	14.95592	4.29226398	4.260106087	0.010526143	9.240446091	221.7707	8.183570862	8.123221397	0.032971654	28.9382782	694.5186768	24	21063.65625
	17	510.8958	878.270874	3.382109	14.91621	4.5800252	4.515614986	0.011157467	9.799655914	235.1917	7.938415527	7.827401161	0.031770937	27.9041176	669.6987915	24	21078.50098
	18	511.283	878.9367676	3.364558	14.94726	4.64044094	4.597435951	0.01135963	9.99130249	239.7913	7.997558594	7.927343845	0.032176614	28.281538	678.756897	24	21094.48242
	19	507.3046	872.0983276	3.3699	14.93781	4.29719257	4.251162052	0.010504035	9.163572311	219.9257	7.934918404	7.852575302	0.031873111	27.796175	667.1082153	24	20930.35986
	20	503.9863	866.3933716	3.374032	14.9305	3.800843	3.75641036	0.00928158	8.046685219	193.1205	7.934283733	7.841958046	0.031830024	27.5778008	661.8671875	24	20793.44092
	21	505.2281	868.5279541	3.372697	14.93286	3.82644033	3.782447577	0.009345906	8.1108284	194.6599	8.11997509	8.028878212	0.03258872	28.3013496	679.2324219	24	20844.6709
	22	504.871	867.9140625	3.375496	14.92791	4.59115458	4.533903599	0.011202654	9.714138031	233.1393	8.285797119	8.185693741	0.033225223	28.8349495	692.0388184	24	20829.9375
	23	510.5655	877.7042236	3.374415	14.92982	4.68416119	4.628254414	0.011435792	10.0402298	240.9655	7.933328152	7.840033531	0.031822212	27.9324875	670.3796997	24	21064.90137
	24	506.2995	870.369812	3.378357	14.92285	4.50578117	4.447570801	0.010989333	9.573911667	229.7739	7.856221676	7.755244732	0.031478062	27.3961468	657.5075073	24	20888.87549
	25	506.4778	870.6768188	3.375496	14.92791	4.43455458	4.380770206	0.010824277	9.429215431	226.3012	7.978320599	7.882074356	0.031992853	27.8486004	668.366394	24	20896.24365
	26	511.2587	878.8942261	3.370789	14.93624	4.70546484	4.654783726	0.011501346	10.11311626	242.7148	7.983250618	7.897939682	0.032057259	28.173954	676.1749268	24	21093.46143
	27	508.1785	873.6002197	3.372761	14.93275	4.5927434	4.541375637	0.011221116	9.806751251	235.362	7.991676331	7.901733398	0.03207266	28.019762	672.4743042	24	20966.40527
	28	507.4396	872.3297729	3.354966	14.96423	4.4856863	4.457103252	0.01101288	9.611474037	221.0639	7.833652973	7.786823273	0.031606231	27.5698223	634.105896	24	20935.91455
	29	507.0708	871.6967773	3.36055	14.95435	4.52485895	4.488216877	0.011089772	9.659656525	231.8318	8.031581879	7.970033169	0.032349881	28.196209	676.7089844	24	20920.72266
	30	501.7638	862.5726318	3.381664	14.917	4.53026485	4.463311195	0.011028236	9.49516201	227.8839	7.971325874	7.860220909	0.031904161	27.5132504	660.3179932	24	20701.74316
May 03	01	505.05	868.2210083	3.378802	14.92206	4.09830379	4.044143677	0.009992521	8.678314209	208.2796	7.867351055	7.765003204	0.031517658	27.3644543	656.7468872	24	20837.3042
	02	503.6506	865.8171387	3.379374	14.92105	4.04440689	3.990060329	0.009858887	8.538082123	204.914	7.71075058	7.609091282	0.03088483	26.7429752	641.8314209	24	20779.61133
	03	501.7367	862.5253906	3.394128	14.89495	3.87461257	3.806395054	0.009405077	8.113078117	194.7139	7.684993744	7.551162243	0.030649705	26.4358749	634.4609985	24	20700.60938
	04	505.7879	869.491394	3.395464	14.89259	4.52946949	4.447294235	0.01098866	9.557648659	229.3836	7.663373947	7.527190685	0.030552408	26.5645046	637.5480957	24	20867.79346
	05	502.6732	864.1359253	3.394128	14.89495	3.35218906	3.293211699	0.008137075	7.033668995	168.8081	7.857387543	7.720122337	0.031335518	27.0780048	649.8721313	24	20739.26221
	06	498.4999	856.961853	3.404429	14.87673	3.15027952	3.085442543	0.007623705	6.532896519	156.7895	8.000738144	7.836636066	0.031808443	27.2539463	654.0947266	24	20567.08447
	07	499.9617	859.4744873	3.406529	14.87301	3.1865263	3.118809462	0.007706152	6.622594833	158.9423	7.973869801	7.805845737	0.031683445	27.2294254	653.5062256	24	20627.3877
	08	484.1238	832.2478027	3.446847	14.80169	3.7558496	3.626587629	0.008960801	7.374989033	176.9997	8.281505585	8.012206078	0.032521047	27.0793877	649.9052734	24	19973.94727
	09	476.6733	819.4396973	3.432602	14.82689	3.83931828	3.716780424	0.009183652	7.455614567	178.9348	8.262108803	8.026889801	0.032580651	26.6995335	640.7888184	24	19666.55273
	10	503.5741	865.6848145	3.391203	14.90012	3.58383036	3.523252487	0.00870547	7.541205883	180.9889	7.905506134	7.774859905	0.031557687	27.3202801	655.6867065	24	20776.43555
	11	499.0552	857.9159546	3.408945	14.86874	3.3523488	3.279465914	0.008103107	6.95849514	167.0039	7.805188179	7.635475636	0.030991925	26.5895672	638.1495972	24	20589.98291
	12	491.3984	844.7536011	3.413335	14.86098	2.97587299	2.906959534	0.007182695	6.069599152	145.6704	7.804233551	7.624568462	0.030947646	26.1443253	627.4638062	24	20274.08643
	13	489.3849	841.2919312	3.416831	14.85479	2.89065719	2.821649075	0.006971903	5.869137287	140.8593	7.736824036	7.551152229	0.030649662	25.7856712	618.8560791	24	20191.00635
	14	493.7751	848.8387451	3.414988	14.85805	2.90258169	2.834085941	0.007002635	5.946250439	142.71	7.825378418	7.642245293	0.031019408	26.3322906	631.9749756	24	20372.12988
	15	493.1726	847.8045044	3.420455	14.84838	3.16363502	3.084111214	0.007620416	6.465350628	155.1684	7.532369137	7.34376812	0.029807912	25.271759	606.5222168	24	20347.30811
	16	492.6735	846.9450073	3.413651	14.86041	3.22834158	3.153522968	0.00779192	6.602019787	158.4485	7.581017494	7.405934334	0.03006023	25.4604416	611.0505981	24	20326.68018
	17	489.4423	841.3910522	3.404494	14.87661	2.98318624	2.921747923	0.007219236	6.075418472	145.81	7.588809013	7.433475971	0.03017202	25.3871212	609.2908936	24	20193.38525
	18	496.4175	853.381958	3.39718	14.88955	3.26665592	3.206537008	0.007922911	6.763164043	162.3159	7.728238583	7.58618927	0.030791882	26.2781906	630.6765747	24	20481.16699
	19	493.7497	848.7962646	3.40742	14.87144	3.22897673	3.160185337	0.007808387	6.634472847	159.2274	7.611226082	7.449213505	0.030235892	25.6710415	616.1049805	24	20371.11035
	20	488.2255	839.2988281	3.409899	14.86705	3.01450658	2.948116302	0.007284387	6.118132114	146.8352	7.438092232	7.274271011	0.029525833	24.7816257	594.7589722	24	20143.17188
	21	483.7775	831.6526489	3.415687	14.85681	2.90401173	2.834711313	0.007004182	5.830266476	139.9264	7.437456131	7.261297703	0.029473158	24.5130615	588.3134766	24	19959.66357
	22	480.1322	825.3856812	3.417341	14.85389	2.83421874	2.765589476	0.006833388	5.644136429	135.4593	7.3331604	7.156141281	0.029046332	23.9765873	575.4381104	24	19809.25635
	23	478.1489	821.975769	3.421917	14.84579	2.70321536	2.63413167	0.006508575	5.352364063	128.4567	7.364321232	7.177062988	0.029131258	23.9440117	574.656311	24	19727.41846
	24	180.7196	621.1928101	2.581527	11.98478	2.13802433	2.703896761	0.006680967	4.130403996	49.56485	7.208360195	8.897928238	0.036116134	23.2315331	278.7784119	11.08333	6884.886781
	25	493.6973	848.7064819	3.431585	14.82869	2.48222661	2.412412405	0.005960739	5.061410904	121.4739	8.200899124	7.969617844	0.032348178	27.4535503	658.8851929	24	20368.95557
	26	489.8871	842.1560669	3.44532	14.80439	2.66505837	2.579271555	0.006373025	5.369291782	128.863	7.804869652	7.554441452	0.030663004	25.8237247	619.7694092	24	20211.74561
	27	485.8707	835.2513428	3.430206	14.83113	2.58312798	2.510770798	0.006203767	5.187790871	124.507	7.798774719	7.581758022	0.030773891	25.7145214	617.1484985	24	20046.03223
	28	476.1981	818.6225586	3.417531	14.85355	2.26918626	2.21317625	0.005468455	4.480143547	107.5235	7.590397358	7.407000542	0.030064566	24.6126118	590.7026978	24	19646.94141
	29	480.2004	825.5037842	3.412507	14.86244	2.13722825	2.088072538	0.005159341	4.260320663	102.2477	7.97259903	7.791482925	0.031625152	26.1108875	626.6613159	24	19812.09082
	30	489.3714	841.2682495	3.434572	14.8234	2.47523046	2.402992964	0.005937463	4.99849987	119.964	7.989768505	7.757791042	0.0314884	26.494091	635.8582153	24	20190.43799
	31	485.0161	833.7827148	3.437372	14.81845	2.44693041	2.37370038	0.005865081	4.893247604	117.4379	7.827922821	7.59433794	0.03082495	25.7011623	616.8278809	24	20010.78516
Jun 03	01	481.6647	828.020874	3.433492	14.82531	2.29700804	2.230322123	0.00551082	4.567155838	109.6117	7.857176781	7.631300926	0.030974962	25.6483746	615.5609741	24	19872.50098
	02	478.5584	822.6795044	3.425733	14.83904	2.26870823	2.208107471	0.00545593	4.492055416	107.8093	7.760035038	7.553920746	0.030660909	25.2254829	605.4116211	24	19744.30811
	03	476.7528	819.5767212	3.42357	14.84286	2.12307882	2.067543745	0.005108617	4.188725948	100.5294	7.71679163	7.516749859	0.030510025	25.005537	600.1328735	24	19669.84131
	04	480.5831	826.1600342	3.428979	14.8333	2.18985295	2.129548311	0.00526182	4.348099232	104.3544	7.754789352	7.541834831	0.030611847	25.2916412	606.9993896	24	19827.84082
	05	477.7717	821.3288574	3.442967	14.80855	2.23277783	2.162375689	0.005342931	4.389276028	105.3426	7.592306137	7.353792667	0.029848583	24.5177002	588.4248047	24	19711.89258
	06	481.338	827.4589233	3.447037	14.80135	2.38476753	2.307031155	0.005700358	4.718213081	113.2371	7.628396034	7.380351067	0.029956391	24.7914295	594.9943237	24	19859.01416

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	07	479.3842	824.1009521	3.44494	14.80506	2.4003458	2.323265314	0.005740469	4.732358456	113.5766	7.54095459	7.300001144	0.029630262	24.4203701	586.0889282	24	19778.42285
	08	477.2361	820.4078369	3.441505	14.81114	2.41561031	2.340336323	0.005782647	4.746475697	113.9154	7.475769997	7.243937969	0.029402716	24.1229115	578.9498901	24	19689.78809
	09	481.299	827.3928833	3.426879	14.83701	2.5079813	2.439920425	0.00602871	4.989738464	119.7537	7.654310703	7.449690342	0.030237846	25.0269585	600.6469727	24	19857.4292
	10	492.8438	847.2377319	3.394451	14.89438	2.88288188	2.83181262	0.00699702	5.927210808	130.3986	7.713468075	7.577706337	0.030757431	26.0485039	573.0670776	24	20333.70557
	11	494.7334	850.4870605	3.402079	14.88089	3.0153017	2.956309557	0.007304633	6.21696043	149.207	7.725058556	7.57248354	0.030736262	26.143425	627.4421997	24	20411.68945
	12	492.2804	846.2697144	3.415116	14.85783	2.27808928	2.225432396	0.005498738	4.66970253	112.0729	7.920132637	7.733804226	0.031391047	26.5629616	637.5111084	24	20310.47314
	13	492.4893	846.6286011	3.416133	14.85602	3.03771782	2.96495676	0.007325999	6.205226898	148.9254	7.640955448	7.459177494	0.030276345	25.6344452	615.2266846	24	20319.08643
	14	489.7749	841.9624023	3.414479	14.85895	3.02340961	2.952562809	0.007295376	6.14489603	147.4775	7.555103302	7.378785133	0.029950038	25.2162838	605.1907959	24	20207.09766
	15	490.6402	843.4501343	3.404813	14.87605	3.06379032	3.000111341	0.007412862	6.254463196	150.1071	7.684199333	7.526314735	0.030548854	25.7665005	618.3959961	24	20242.80322
	16	486.0578	835.5725708	3.395698	14.89217	2.97518373	2.921272039	0.007218061	6.035484791	144.8516	7.561038971	7.425465584	0.030139517	25.1888752	604.53302	24	20053.7417
	17	480.5605	826.1224365	3.405321	14.87515	2.88397956	2.823860884	0.006977372	5.767943382	138.4306	7.332685947	7.181013107	0.029147279	24.0799046	577.9177246	24	19826.93848
	18	482.4504	829.3716431	3.403858	14.87774	2.72483635	2.668829679	0.006594308	5.469435215	131.2664	7.515993118	7.364131927	0.029890563	24.7924633	595.019104	24	19904.91943
	19	489.3298	841.1973877	3.40106	14.88269	2.66744328	2.615740776	0.006463137	5.438868523	130.5329	7.877841473	7.724158764	0.031351883	26.3729801	632.9514771	24	20188.7373
	20	493.6755	848.6687622	3.405767	14.87436	2.90321636	2.842517853	0.00702347	5.963554859	143.1253	7.877524376	7.713648796	0.031309243	26.5741329	637.7791748	24	20368.05029
	21	493.5386	848.4325562	3.399089	14.88618	2.97778034	2.921487808	0.007218592	6.126833916	147.044	7.815520287	7.667316437	0.031121166	26.4049339	633.7183838	24	20362.38135
	22	492.4944	846.6379395	3.397627	14.88876	2.97269201	2.917343378	0.007208353	6.104666233	146.512	7.829828739	7.685318947	0.031194245	26.4114799	633.8754883	24	20319.31055
	23	494.4341	849.97229	3.383826	14.91317	2.72753787	2.687701702	0.006640939	5.648446083	135.5627	8.088496208	7.971265316	0.032354891	27.5002079	660.0050049	24	20399.33496
	24	494.3876	849.8919678	3.403985	14.87751	2.6548841	2.600681305	0.006425924	5.463217735	131.1172	7.915839195	7.757426262	0.031486914	26.7745667	642.5895996	24	20397.40723
	25	486.3767	836.1204834	3.406148	14.87369	2.72928739	2.671269178	0.006600337	5.521616936	132.5188	7.464482784	7.307863235	0.029662168	24.803009	595.2722168	24	20066.8916
	26	482.6099	829.6455688	3.390886	14.90069	2.57809258	2.534017086	0.006261208	5.20053196	124.8128	7.368933678	7.247198582	0.029415937	24.405508	585.7321777	24	19911.49365
	27	480.4753	825.9760742	3.382555	14.91543	2.09605217	2.065591574	0.005103792	4.214570522	101.1497	7.357326984	7.253674507	0.029442225	24.3183994	583.6416016	24	19823.42578
	28	478.9915	823.4257813	3.396037	14.89157	2.29351211	2.251781225	0.005563839	4.584205627	110.0209	7.479269028	7.344248772	0.029809855	24.549387	589.1853027	24	19762.21875
	29	482.5602	829.5604248	3.400426	14.88381	2.4253087	2.377860546	0.005875369	4.875268936	117.0064	7.597076416	7.450853348	0.030242559	25.0873508	602.0963745	24	19909.4502
	30	486.6321	836.5595703	3.397499	14.88899	2.55424595	2.50587368	0.006191668	5.183237553	124.3977	7.673070908	7.532139778	0.030572493	25.5738754	613.7730103	24	20077.42969
Jul 03	01	489.7173	841.8634033	3.391903	14.89889	3.02881384	2.976394653	0.007354259	6.193299294	148.6392	7.612019539	7.485097885	0.030381549	25.5793247	613.9038086	24	20204.72168
	02	486.2225	835.855896	3.40246	14.88021	3.02388573	2.963588238	0.00732262	6.130072594	147.1217	7.520286083	7.37068367	0.029917145	25.0056343	600.1351929	24	20060.5415
	03	485.8849	835.2750244	3.406466	14.87313	3.02293253	2.958895445	0.007311023	6.110180855	146.6443	7.472272396	7.314926624	0.029690841	24.8015118	595.2363281	24	20046.60059
	04	484.5112	832.9136963	3.411172	14.8648	2.59685373	2.538330078	0.006271862	5.226762295	125.4423	7.531097412	7.362412453	0.029883578	24.8905373	597.3729248	24	19989.92871
	05	483.7858	831.6668701	3.408629	14.8693	2.42547035	2.372292042	0.005861604	4.876882553	117.0452	7.601209641	7.436869621	0.030185796	25.1043873	602.5053101	24	19960.00488
	06	484.6324	833.12146	3.403795	14.87785	2.37840867	2.330002069	0.005757114	4.798354626	115.1605	7.666870117	7.511405468	0.030488338	25.4006157	609.6148071	24	19994.91504
	07	484.6971	833.2347412	3.403033	14.8792	2.9113245	2.852897167	0.007049113	5.875215054	141.0052	7.327119827	7.180415154	0.029144866	24.2838745	582.8129883	24	19997.63379
	08	490.2003	842.6945801	3.387516	14.90665	3.2617259	3.2105546	0.007932839	6.690120697	160.5629	7.528236389	7.410964012	0.03008065	25.3490505	608.3771973	24	20224.66992
	09	484.736	833.3009644	3.392539	14.89776	3.216892	3.162229538	0.007813434	6.515386581	156.3693	7.261301041	7.138441563	0.028974496	24.1529217	579.670105	24	19999.22314
	10	481.5518	827.8272705	3.395209	14.89304	3.24996114	3.1909554	0.00788441	6.529716015	156.7132	7.101838589	6.975861073	0.028314587	23.4386864	562.5285034	24	19867.85449
	11	480.1125	825.352417	3.398008	14.88809	2.88493371	2.831214666	0.006995542	5.781862736	138.7647	7.18689537	7.053216934	0.028628575	23.6309757	567.1433716	24	19808.45801
	12	357.2257	701.7844238	2.892391	13.04574	4.65379381	10.80272675	0.026692105	9.056098938	190.1781	6.573420048	6.85038662	0.027805306	21.5697746	452.965271	19.76944	13873.88752
	13	484.7965	833.4047852	3.413398	14.86086	2.69780874	2.634981632	0.006510678	5.428676605	130.2882	7.719971657	7.542324066	0.030613825	25.513134	612.3151855	24	20001.71484
	14	484.0274	832.0825195	3.415879	14.85647	2.43723273	2.382811308	0.005887598	4.902620792	117.6629	7.962740898	7.770738602	0.031540938	26.2469254	629.9262085	24	19969.98047
	15	481.5655	827.8508301	3.442779	14.80889	2.01624227	1.963135719	0.004850638	4.007852077	96.18845	8.231746674	7.962222576	0.032318171	26.7732658	642.5584106	24	19868.41992
	16	480.0189	825.1918945	3.434638	14.82329	2.49335504	2.420464039	0.005980633	4.937122822	118.491	7.68117857	7.45798111	0.0302715	24.9805717	599.5336914	24	19804.60547
	17	479.3652	824.0680542	3.454479	14.78819	2.33118963	2.257518768	0.005578019	4.589595795	110.1503	7.88992548	7.609091759	0.030884828	25.467247	611.2139282	24	19777.6333
	18	479.8383	824.880249	3.445047	14.80488	2.32461834	2.256356001	0.005575146	4.585357666	110.0486	7.819495201	7.5615592	0.030691912	25.3467884	608.322876	24	19797.12598
	19	479.7779	824.7764282	3.41219	14.863	2.66442156	2.603724241	0.006433445	5.307219028	127.3733	7.628554344	7.456150055	0.030264037	24.9622917	599.0949707	24	19794.63428
	20	479.3594	824.0584717	3.416959	14.85456	2.54232264	2.480496168	0.006128964	5.053285122	121.2788	7.57402277	7.391851425	0.030003084	24.7279091	593.4697876	24	19777.40332
	21	480.5575	826.1177368	3.42787	14.83526	2.14207029	2.092190981	0.005169519	4.260932446	93.74051	7.917776585	7.696126461	0.031238113	25.8241673	568.1317139	24	19826.82568
	22	476.5279	819.1894531	3.43057	14.83049	2.46696353	2.401594877	0.00593401	4.853482723	116.4836	7.403593063	7.192757607	0.029194966	23.931879	574.3651123	24	19660.54688
	23	478.555	822.6747437	3.452127	14.79235	2.13865995	2.074245214	0.005125174	4.199338436	100.7841	7.932851791	7.653321743	0.031064371	25.5899658	614.1591797	24	19744.19385
	24	477.3271	820.5636597	3.434066	14.8243	2.26441598	2.20265317	0.005442451	4.466878891	107.2051	7.594692707	7.372040749	0.029922659	24.5586338	589.4072266	24	19693.52783
	25	481.9041	828.4317017	3.459822	14.77874	1.93102646	1.870779037	0.004622438	3.820698261	91.69676	8.113140106	7.809657097	0.031698924	26.2778873	630.6693115	24	19882.36084
	26	479.2879	823.9356689	3.440615	14.81271	2.64852262	2.566655874	0.006341853	5.225568771	125.4137	7.260663986	7.038061142	0.028567066	23.5476284	565.1431274	24	19774.45605
	27	475.8658	818.0511475	3.437626	14.818	2.71958923	2.636775494	0.00651511	5.331038952	127.9449	7.144129276	6.931168079	0.028133197	23.0139217	552.3341064	24	19633.22754
	28	475.9254	818.1550903	3.424463	14.84129	2.58227873	2.514212132	0.006212271	5.084497452	122.0279	7.176826954	6.988910675	0.028367572	23.2085209	557.0045166	24	19635.72217
	29	476.8959	819.8222046	3.443414	14.80776	2.53246474	2.459600687	0.006077333	4.972942352	119.3506	7.473704815	7.231206894	0.029351033	24.0794868	577.9077148	24	19675.73291

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	478.676	822.8824463	3.458295	14.78144	3.06633401	2.964870691	0.007325786	6.015638351	144.3753	7.260027885	6.994225502	0.028389141	23.3789959	561.0958862	24	19749.17871
	31	482.0522	828.6868286	3.450791	14.79471	3.10671687	3.011888266	0.007441961	6.156210899	147.7491	7.342224121	7.088828087	0.028773116	23.86092	572.6621094	24	19888.48389
Aug 03	01	480.4504	825.9334717	3.45944	14.77941	3.16649556	3.062117338	0.007566072	6.239357948	149.7446	7.226641655	6.959026337	0.028246263	23.3429298	560.2302856	24	19822.40332
	02	480.5798	826.1554565	3.42847	14.8342	3.38764238	3.295146704	0.008141853	6.728806019	161.4913	7.041742325	6.849863529	0.027803175	22.9725342	551.3408203	23.99167	19820.84643
	03	480.3487	825.758728	3.439725	14.81429	3.30401587	3.202876568	0.007913869	6.535601139	156.8544	7.078467846	6.862609863	0.027854921	23.0022259	552.0534058	23.99722	19815.91626
	04	481.5362	827.7987671	3.43006	14.83139	2.79256344	2.714552164	0.006707286	5.554298401	133.3032	7.395801544	7.191365242	0.029189317	24.1695671	580.0695801	24	19867.17041
	05	485.3353	834.3304443	3.428214	14.83465	2.81243634	2.735492468	0.006759023	5.642819405	135.4277	7.450016022	7.247340679	0.029416509	24.5468922	589.1254272	24	20023.93066
	06	483.6124	831.3693848	3.434384	14.82374	2.90289879	2.818495035	0.006964113	5.793305874	139.0393	7.355101585	7.141898155	0.028988533	24.1009502	578.4227905	24	19952.86523
	07	483.2336	830.7176514	3.432223	14.82756	2.84041786	2.759457827	0.006818241	5.667825222	136.0278	7.413766861	7.203352451	0.029237971	24.2900124	582.9602661	24	19937.22363
	08	482.9673	830.2594604	3.426942	14.8369	2.96029282	2.880150795	0.007116455	5.911875725	141.885	7.420921803	7.221385956	0.029311161	24.3384876	584.1237183	24	19926.22705
	09	479.8595	824.9180298	3.431331	14.82914	2.86235762	2.781769991	0.00687337	5.67298317	136.1516	7.352240562	7.145394802	0.02900273	23.927021	574.2484741	24	19798.03271
	10	479.1757	823.7420654	3.430313	14.83094	2.83533001	2.755856276	0.006809337	5.611645222	134.6795	7.286896706	7.083994389	0.028753517	23.687542	568.5009766	24	19769.80957
	11	483.5853	831.3221436	3.407674	14.87099	3.21848369	3.149111986	0.007781019	6.470913887	155.3019	7.335228443	7.178809166	0.029138345	24.2235451	581.3651123	24	19951.73145
	12	481.1976	827.2179565	3.4113	14.86458	2.70528173	2.646192551	0.006538375	5.413144112	129.9155	7.570207596	7.400803566	0.030039409	24.8536301	596.4871216	24	19853.23096
	13	480.5719	826.1411743	3.428278	14.83454	2.66792011	2.594652414	0.006411027	5.298623085	127.1669	7.516312599	7.311418533	0.029676609	24.5176411	588.4234009	24	19827.38818
	14	478.8185	823.1281128	3.426882	14.83701	2.75615621	2.681482553	0.006625573	5.456526756	130.9566	7.442383766	7.24238348	0.029396396	24.1977882	580.7468872	24	19755.07471
	15	481.3162	827.4210205	3.426562	14.83757	2.78556871	2.710156679	0.006696424	5.542323112	133.0157	7.530938625	7.329620838	0.029750483	24.6163082	590.7913818	24	19858.10449
	16	478.9121	823.2887573	3.414732	14.8585	2.58270407	2.522187948	0.006231981	5.133873463	123.213	7.56241703	7.385597706	0.029977687	24.6824341	592.378418	24	19758.93018
	17	477.871	821.4987793	3.417468	14.85366	2.43754959	2.378264189	0.005876362	4.829858303	115.9166	7.589921474	7.406392574	0.0300621	24.6952839	592.6868286	24	19715.9707
	18	476.3079	818.8115234	3.412074	14.8632	2.37401557	2.320392609	0.00573337	4.694652557	103.2824	7.645479679	7.47171545	0.03032724	24.8217812	546.0792236	24	19651.47656
	19	478.791	823.0808716	3.441507	14.81114	1.91465056	1.865382195	0.004609101	3.786668301	90.88004	8.262901306	7.996008873	0.03245531	26.7265415	641.4370117	24	19753.94092
	20	479.0743	823.5673828	3.452444	14.79179	1.71751034	1.673223495	0.004134307	3.407609463	81.78263	8.329994202	8.034549713	0.032611746	26.8576908	644.5845947	24	19765.61719
	21	477.3569	820.6156006	3.450983	14.79438	1.92911863	1.874339938	0.004631235	3.789857149	90.95657	7.973233223	7.694014072	0.031229537	25.6509209	615.6220703	24	19694.77441
	22	476.2226	818.6651001	3.406466	14.87313	2.62722039	2.571230412	0.006353152	5.203194618	124.8767	7.185147285	7.03463459	0.028553151	23.3784122	561.0819092	24	19647.9624
	23	249.3114	685.697998	2.860637	12.93774	4.46699619	6.121510029	0.015125378	8.544677734	128.1702	6.913323402	7.483918667	0.030376757	22.2912312	334.3684692	14.34722	9837.861628
	24	477.5767	820.9934082	3.420392	14.84849	2.74963713	2.680594921	0.006623381	5.440089703	130.5621	7.47306776	7.286082745	0.029573757	24.2805214	582.7324829	24	19703.8418
	25	478.3102	822.2543945	3.452783	14.79119	2.36563659	2.296063662	0.005673258	4.649908066	111.5978	8.253845215	7.954538822	0.032286994	26.588583	638.1259766	24	19734.10547
	26	480.2333	825.5604858	3.462746	14.77356	2.19493985	2.128178835	0.005258436	4.320492268	103.6918	8.761955261	8.417784691	0.034167286	28.2567673	678.1624146	24	19813.45166
	27	482.2476	829.0220947	3.443351	14.80787	2.93247008	2.847956419	0.00703691	5.826097965	139.8264	8.13476181	7.869102955	0.031940207	26.4968948	635.9254761	24	19896.53027
	28	485.1812	834.065979	3.422555	14.84466	3.31689429	3.232020855	0.007985878	6.664097786	159.9384	7.816473961	7.615815163	0.030912125	25.7811756	618.7481689	24	20017.5835
	29	487.7888	838.5479736	3.417722	14.85321	3.38112378	3.297751665	0.008148292	6.836380005	164.0731	7.800577164	7.611257553	0.030893629	25.9058247	621.7398071	24	20125.15137
	30	485.121	833.9620361	3.409201	14.86829	3.2486887	3.177386761	0.007850884	6.550928593	157.2223	7.691036224	7.523375988	0.03053692	25.4715786	611.3179321	24	20015.08887
	31	481.1045	827.0575562	3.417087	14.85434	3.17237759	3.096204996	0.007650296	6.330472469	151.9313	7.602799416	7.419519901	0.030115379	24.906971	597.7672729	24	19849.38135
Sep 03	01	478.9397	823.3359985	3.423254	14.84342	3.06267834	2.983330727	0.007371398	6.071919441	145.7261	7.637457371	7.440001011	0.030198513	24.8630962	596.7142944	24	19760.06396
	02	478.1565	821.9900513	3.409229	14.86824	2.43940115	2.392092705	0.005910532	4.845654011	106.6044	8.306799889	8.115733147	0.032941278	27.0930729	596.0476074	24	19727.76123
	03	475.25	816.9932251	3.419567	14.84995	2.5701437	2.522339821	0.006232356	5.075874805	121.821	7.967505932	7.752171993	0.031465586	25.7430592	617.833374	24	19607.8374
	04	477.5905	821.0169678	3.433175	14.82588	2.53771114	2.475430489	0.00611645	5.016136169	120.3873	7.996762276	7.755943775	0.031480905	25.8643074	620.7434082	24	19704.40723
	05	480.6128	826.2120972	3.426498	14.83769	2.73485184	2.672198534	0.006602632	5.447368145	130.7368	7.893265247	7.670406342	0.0311337	25.7510509	618.0252075	24	19829.09033
	06	478.9944	823.4303589	3.402269	14.88055	3.22563744	3.161142826	0.007810749	6.433436871	154.4025	7.283399105	7.13894558	0.028976524	23.8625965	572.7022705	24	19762.32861
	07	481.0935	827.0385742	3.411809	14.86368	2.89542699	2.829198837	0.006990561	5.784448624	138.8268	7.49612093	7.326515675	0.029737882	24.5980339	590.3527832	24	19848.92578
	08	485.5797	834.7507935	3.405767	14.87436	2.82006884	2.759025812	0.006817171	5.694696426	136.6727	7.731259346	7.569798946	0.030725351	25.6506176	615.6148071	24	20034.01904
	09	489.0767	840.7629395	3.405257	14.87526	2.76664925	2.708765507	0.006692987	5.628354073	135.0805	7.95272541	7.788256168	0.031612057	26.5788383	637.8920898	24	20178.31055
	10	484.198	832.3752441	3.407166	14.87189	2.92626929	2.863154888	0.007074464	5.890356064	141.3685	7.433638573	7.283688545	0.029564045	24.6127834	590.7067871	23.93889	19926.1382
	11	479.7227	824.6818848	3.40812	14.8702	2.95441031	2.889912605	0.007140576	5.891189575	141.3885	7.304067612	7.147184372	0.029009987	23.9239292	574.1743164	24	19792.36523
	12	477.7555	821.3004761	3.401951	14.88111	2.67427874	2.620930433	0.006475958	5.32320261	127.7569	7.567504883	7.418354034	0.030110653	24.7284336	593.4824219	24	19711.21143
	13	475.594	817.5836182	3.406276	14.87346	2.46489596	2.412965775	0.005962104	4.874835491	116.996	7.529983521	7.372223377	0.029923404	24.4678497	587.2283936	24	19622.00684
	14	476.6785	819.4490967	3.41238	14.86266	2.66712379	2.605601311	0.006438082	5.278548241	126.6852	7.49373579	7.323401451	0.029725233	24.358263	584.5983276	24	19666.77832
	15	478.5001	822.5802612	3.400594	14.88351	2.60708165	2.555902004	0.006315284	5.196511745	124.7163	7.714672565	7.565792561	0.030709095	25.2606087	606.2545776	24	19741.92627
	16	482.8134	829.9950562	3.396354	14.89101	2.6291275	2.579787493	0.006374298	5.291133404	126.9872	7.914567947	7.771791935	0.031545233	26.1815205	628.3565063	24	19919.88135
	17	483.5383	831.2418213	3.43413	14.82419	2.35122252	2.276306629	0.00562444	4.628527641	111.0847	8.115205765	7.882706642	0.031995438	26.6120377	638.6889038	24	19949.80371
	18	485.4589	834.5430298	3.420775	14.84781	2.78397655	2.712416649	0.00670201	5.596082211	134.306	7.772117615	7.575700283	0.030749312	25.6651287	615.9630737	24	20029.03271
	19	482.7418	829.8721924	3.39413	14.89495	2.69574213	2.647152901	0.006540751	5.430875301	130.341	7.682609558	7.547749043	0.030635851	25.4262791	610.2307129	24	19916.93262
	20	482.646	829.7068481	3.390759	14.90091	2.68540668	2.640511751	0.00652434	5.415943146	129.9826	7.668937683	7.542426109	0.030614249	25.4031467	609.6754761	24	19912.96436

Unit 3 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	477.9063	821.5601807	3.3968	14.89023	2.51465917	2.467993736	0.006098076	5.012601852	120.3024	7.659715176	7.519531727	0.030521313	25.0795174	601.9083862	24	19717.44434
	22	476.3849	818.9437866	3.380647	14.9188	2.42642164	2.392667055	0.005911951	4.844641209	116.2714	7.650494099	7.546381474	0.030630304	25.089529	602.1486816	24	19654.65088
	23	477.4147	820.7147827	3.382365	14.91576	2.55965161	2.523115873	0.006234272	5.117660046	122.8238	7.675296783	7.567502499	0.030716024	25.2116375	605.0792847	24	19697.15479
	24	481.7585	828.1815186	3.391777	14.89911	3.21228337	3.157697439	0.007802236	6.464072704	155.1378	7.444132805	7.318799973	0.029706554	24.605896	590.5415039	24	19876.35645
	25	483.7442	831.5960083	3.396355	14.89101	3.5132401	3.448515415	0.008520807	7.087905884	170.1097	7.33904314	7.205116272	0.029245125	24.3220882	583.7301025	24	19958.3042
	26	481.9892	828.578186	3.384081	14.91272	3.60322499	3.549590111	0.008770549	7.270903587	174.5017	7.257007599	7.150902748	0.02902508	24.0529575	577.2709961	24	19885.87646
	27	479.1044	823.6192627	3.388406	14.90508	3.4738121	3.418348789	0.008446272	6.961186409	167.0685	7.178787708	7.064755917	0.028675416	23.6229076	566.9498291	24	19766.8623
	28	475.2007	816.9082642	3.399534	14.88539	3.00846386	2.951318264	0.0072923	5.96714735	143.2115	7.205338478	7.067817688	0.028687842	23.4393082	562.543396	24	19605.79834
	29	477.7057	821.2155151	3.413419	14.86082	2.58996415	2.529810905	0.006250814	5.134363174	123.2247	7.568246841	7.393604755	0.030010192	24.6467342	591.5216064	24	19709.17236
	30	479.5142	824.322998	3.415624	14.85693	2.94280386	2.872334242	0.007097142	5.85342741	140.4823	7.478631973	7.300718784	0.02963317	24.4319382	586.3665161	24	19783.75195
Oct 03	01	481.8709	828.3751831	3.414924	14.85816	2.97094417	2.900682926	0.007167187	5.938558102	142.5254	7.550652027	7.373393059	0.02992815	24.7926579	595.0238037	24	19881.00439
	02	483.3603	830.9349365	3.417658	14.85332	2.74582171	2.678432941	0.006618036	5.501418114	132.034	7.850020409	7.659711838	0.031090314	25.8344173	620.026001	24	19942.43848
	03	482.904	830.1508789	3.422301	14.84511	2.65472341	2.586186647	0.006390111	5.307192802	127.3726	7.852405071	7.651156425	0.031055572	25.7866173	618.8787842	24	19923.62109
	04	358.5443	739.6392212	3.062804	13.6524	4.33016491	7.790913105	0.019250199	7.520027637	150.4005	7.23271513	7.403233528	0.03004927	23.5342674	470.6853333	19.71111	14579.11084
	05	483.5547	831.2701416	3.431585	14.82869	2.6790483	2.602596283	0.006430659	5.347354412	128.3365	7.973869324	7.748308182	0.031449921	26.1452618	627.4863281	24	19950.4834
	06	482.396	829.2772217	3.405257	14.87526	2.60957289	2.554259062	0.006311222	5.236105919	125.6665	7.911547184	7.747169018	0.031445287	26.0786457	625.8875122	24	19902.65332
	07	480.827	826.5805664	3.400171	14.88426	2.4712553	2.423194647	0.005987377	4.951357365	118.8326	7.91647625	7.764369011	0.031515103	26.0512371	625.2296753	24	19837.93359
	08	481.8052	828.2619019	3.415879	14.85647	2.57300544	2.510351181	0.006202732	5.1402812	123.3668	7.947477341	7.757056236	0.031485412	26.0817795	625.9627075	24	19878.28564
	09	484.3683	832.6681519	3.425735	14.83904	2.54836369	2.479768038	0.006127165	5.104227543	122.5015	8.115683556	7.899579048	0.032063909	26.7025757	640.8618164	24	19984.03564
	10	494.9971	850.9404297	3.40462	14.87639	2.75138712	2.694350719	0.006657371	5.667283058	136.0148	8.539218903	8.364415169	0.033950642	28.8928585	693.4285889	24	20422.57031
	11	493.7393	848.7774658	3.403414	14.87852	2.87110162	2.813042402	0.006950645	5.901192665	141.6286	8.381505013	8.214036942	0.03334026	28.3082504	679.3980103	24	20370.65918
	12	491.5987	845.0982666	3.408056	14.87031	2.98684382	2.922066212	0.007220023	6.104279041	146.5027	8.210279465	8.033866882	0.032608971	27.5582504	661.3980103	24	20282.3584
	13	494.3743	849.8684082	3.398453	14.8873	3.03199506	2.974739075	0.007350171	6.248397827	149.9615	8.398516655	8.241101265	0.033450127	28.4291878	682.3005371	24	20396.8418
	14	493.648	848.621521	3.340766	14.98935	3.28940439	3.285029173	0.008116856	6.885422707	158.3647	8.338143349	8.322389603	0.033780079	28.6543617	659.050293	24	20366.9165
	15	491.7501	845.3581543	3.346179	14.97978	3.49336743	3.481992006	0.008603523	7.276661873	174.6399	8.223952293	8.198479652	0.033277139	28.1363373	675.2720947	24	20288.5957
	16	496.379	853.315918	3.375432	14.92803	3.93200469	3.883403778	0.009595355	8.19184494	196.6043	8.169101715	8.070356369	0.032757089	27.9540253	670.8966064	24	20479.58203
	17	492.8574	847.2613525	3.364432	14.94749	3.79623246	3.762452126	0.0092965	7.881949425	189.1668	8.013138771	7.942593098	0.032238498	27.3196335	655.6712036	24	20334.27246
	18	485.5469	834.6941528	3.36475	14.94693	3.1529808	3.123313665	0.007717274	6.452772617	154.8665	7.918541908	7.847606659	0.031852949	26.5943756	638.2650146	24	20032.65967
	19	485.9805	835.4403076	3.392857	14.8972	3.14216948	3.087769985	0.007629453	6.377425194	153.0582	7.807569981	7.673741817	0.031147238	26.0250835	624.6019897	24	20050.56738
	20	481.9369	828.4884033	3.385863	14.90958	3.15822744	3.14439249	0.007769357	6.360659599	152.6558	8.022838593	7.968793869	0.032344844	26.5479202	637.1500854	24	19883.72168
	21	483.6595	831.449646	3.385988	14.90935	3.08191538	3.035237551	0.007499652	6.235726833	149.6574	7.798985958	7.680515766	0.031174745	25.924221	622.1812744	24	19954.7915
	22	485.7251	835.0010986	3.378867	14.92195	3.50719738	3.460942984	0.008551514	7.143218994	171.4373	7.809797287	7.707951069	0.031286091	26.1271706	627.052124	24	20040.02637
	23	490.819	843.7571411	3.383445	14.91385	3.72946	3.675050497	0.009080539	7.664489269	183.9477	7.90836668	7.794754028	0.031638436	26.6951828	640.6843872	24	20250.17139
	24	487.6376	838.288147	3.388405	14.90508	3.53088832	3.474621296	0.00858531	7.199907303	172.7978	7.837937355	7.714167595	0.031311329	26.2518158	630.0435791	24	20118.91553
	25	488.1893	839.2374878	3.391776	14.89911	3.75934911	3.695877075	0.009132002	7.665176392	183.9642	7.676409721	7.547236443	0.030633766	25.7127419	617.105835	24	20141.69971
	26	489.4256	841.3626099	3.373143	14.93207	3.93518424	3.889004707	0.009609195	8.089432716	194.1464	7.822834015	7.733927727	0.031391546	26.4141159	633.9387817	24	20192.70264
	27	489.4806	841.4571533	3.362205	14.95142	3.64694762	3.616593838	0.008936105	7.523501396	180.564	7.888335705	7.824226379	0.031758051	26.7296791	641.5122681	24	20194.97168
	28	488.9592	840.5598755	3.357307	14.96009	3.36745119	3.344587803	0.008264016	6.949522018	166.7885	8.114729881	8.060407639	0.032716721	27.503809	660.0914307	24	20173.43701
	29	489.5273	841.5373535	3.373144	14.93207	3.0895462	3.054437876	0.007547093	6.353635311	152.4872	8.373556137	8.278525352	0.033602025	28.2786751	678.6882324	24	20196.89648
	30	504.6156	867.4747314	3.396291	14.89112	3.73120737	3.663329124	0.00905158	7.854401112	188.5056	8.670381546	8.513789177	0.034556944	29.9799004	719.5175781	24	20819.39355
	31	505.6045	869.1749878	3.393494	14.89608	4.00148153	3.930325031	0.009711297	8.444986343	202.6797	8.545895576	8.399893761	0.034094661	29.6328926	711.1893921	24	20860.19971
Total		348,796	604510.2791							58,769					537,133	17021.74	14,396,901
Average		486.4664	843.1105706	3.359264	14.84574	1.79775445	2.260223774	0.005584154	3.552621092	81.96581	9.276210302	9.173342598	0.037230244	31.543529	749.1401094	23.31745	19721.78245
Ann Avg.		174,398								29,385					268,567	8510.871	7,198,451

7057.304504 mmscf/yr

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Nov01	01	491.5681	848.3743896	3.28214	15.0604	11.5778913	11.69736671	0.028890945	24.51388741	588.3333	6.608986855	6.677338123	0.027092021	22.9850674	551.6416016	24	20360.98535
	02	490.9536	847.3123779	3.274698	15.07364	11.6824903	11.8286171	0.029215109	24.75890732	594.2138	6.626155853	6.71006155	0.027224783	23.0676994	553.6248169	24	20335.49707
	03	490.2338	846.0700684	3.278005	15.06774	12.8550205	13.00132084	0.032111559	27.17586327	652.2207	6.436807156	6.511811256	0.026420426	22.3536167	536.4868164	24	20305.68164
	04	488.0833	842.357605	3.28392	15.05724	11.9693079	12.08633327	0.029851692	25.14847183	603.5633	6.410256386	6.473200798	0.026263779	22.1234703	530.9633179	24	20216.58252
	05	485.5385	837.96698	3.253438	15.11147	9.68124485	9.863651276	0.024361944	20.42571259	469.7914	6.404781342	6.528651714	0.02648874	22.194582	510.4754028	24	20111.20752
	06	488.9694	843.8891602	3.26993	15.08213	10.2478218	10.39081001	0.025663933	21.66288757	519.9093	6.454772949	6.547287941	0.026564363	22.4209881	538.1036987	24	20253.33984
	07	494.3686	853.2056885	3.270947	15.08031	11.0376558	11.18710518	0.027630676	23.57962036	565.9109	6.590703964	6.68185091	0.027110329	23.1317329	555.1616211	24	20476.93652
	08	490.3409	846.2549438	3.2588	15.10193	11.7737551	11.97372913	0.029573562	25.03581619	600.8596	6.475598812	6.590220928	0.026738551	22.627533	543.060791	24	20310.11865
	09	491.4806	848.2227173	3.268911	15.08394	10.2694492	10.41403103	0.025721267	21.8336544	524.0077	6.656839848	6.753353596	0.027400421	23.2419872	557.8076782	24	20357.34521
	10	489.5332	844.861145	3.259309	15.10103	9.69790077	9.864191055	0.02436325	20.58998299	494.1596	6.598017693	6.712725163	0.027235596	23.0201454	552.4835205	24	20276.66748
	11	486.2361	839.1713867	3.274572	15.07387	11.4127083	11.55441284	0.028537888	23.95364571	574.8875	6.203258038	6.281966686	0.025487863	21.3891582	513.3397827	24	20140.11328
	12	488.0685	842.3338623	3.237709	15.13943	9.49527836	9.72224617	0.024012674	20.22942543	465.2768	6.39947319	6.554488182	0.02659357	22.4001217	515.2028198	24	20216.0127
	13	490.9366	847.2839355	3.239787	15.13575	9.99089718	10.22558308	0.025255853	21.40219498	513.6527	6.523451328	6.677080631	0.02709097	22.9552174	550.9251709	24	20334.81445
	14	491.5332	848.3128052	3.242584	15.13078	10.9273272	11.17416382	0.027598763	23.4236908	562.1686	6.543007851	6.691470146	0.027149342	23.0309582	552.742981	24	20359.50732
	15	489.3351	844.5197754	3.244937	15.1266	10.5967865	10.82683277	0.026740851	22.58197975	541.9675	6.619956493	6.765429497	0.027449429	23.1831169	556.3947754	24	20268.47461
	16	485.5215	837.9387207	3.265541	15.08994	10.6592817	10.82518387	0.026736816	22.40723419	537.7736	6.497059822	6.598383904	0.02677167	22.4346199	538.4309082	24	20110.5293
	17	89.85172	531.6705933	2.180141	12.54251	23.6662121	58.76892853	0.145151705	30.45384216	213.1769	5.095498562	7.629728317	0.030956158	15.5787086	109.0509644	6.352778	3377.585226
	18	487.541	841.4235229	3.259755	15.10023	12.8578625	13.24155426	0.03270489	27.12657166	651.0377	6.870515823	7.035845757	0.028546596	23.8324795	571.9794922	24	20194.16455
	19	489.8707	845.4442749	3.25536	15.10806	12.1225824	12.34751701	0.030496748	25.78346062	593.0196	6.296451569	6.414559841	0.026025835	22.0050659	506.1165161	24	20290.6626
	20	491.3876	848.0614624	3.249897	15.11778	12.3769417	12.62362003	0.031178679	26.4607296	635.0575	5.615112305	5.727914333	0.023239918	19.7333527	453.8670959	24	20353.4751
	21	489.4776	844.7662354	3.245192	15.12615	10.8928232	11.12230682	0.027470641	23.23280334	557.5873	7.249057293	7.405369759	0.030045874	25.379921	609.118103	24	20274.38965
	22	488.2856	842.7085571	3.270121	15.0818	10.8464003	10.98819828	0.027139422	22.89305878	549.4334	6.929977894	7.031864166	0.028530441	24.0304966	576.7318726	24	20225.00537
	23	494.901	854.1257324	3.276098	15.07115	10.6368542	10.76112747	0.026578596	22.71746635	545.2192	6.904062271	6.989138603	0.028357092	24.2175617	581.2214966	24	20499.01758
	24	488.7198	843.4575195	3.259627	15.10048	8.5931139	8.741297722	0.021589862	18.21706581	437.2096	7.023617744	7.147360325	0.028999038	24.4643078	587.1433716	24	20242.98047
	25	502.2801	866.8609619	3.285892	15.05373	10.9397268	11.04156971	0.027271263	23.64052963	567.3727	7.091663837	7.156659603	0.029036762	25.1712379	604.1096802	24	20804.66309
	26	504.3983	870.5166016	3.251551	15.11484	11.9678745	12.20166683	0.030136533	26.24300385	629.8321	7.132045746	7.274172306	0.029513562	25.6913166	616.5916138	24	20892.39844
	27	507.3737	875.6514893	3.216643	15.17694	12.7445593	13.13825035	0.032449737	28.41241455	625.0731	7.062902927	7.281208992	0.029542096	25.8581142	568.878479	24	21015.63574
	28	500.5768	863.9213867	3.20035	15.20593	11.7909575	12.21515656	0.030169835	26.16936493	601.8954	7.023908615	7.278384686	0.029530639	25.5330734	587.2606812	24	20734.11328
	29	490.4778	846.4920654	3.226812	15.15884	10.1037846	10.35194302	0.025567908	21.66362953	519.9271	7.009788036	7.2093997	0.029250754	24.7553577	594.1286011	24	20315.80957
	30	496.992	857.7338867	3.256765	15.10556	11.7435503	11.95204163	0.029519971	25.32885742	607.8926	6.845872402	6.970867157	0.028282953	24.2595367	582.2288818	24	20585.61328
Dec01	01	370.9094	768.161377	2.905524	14.16298	11.4703465	19.54410362	0.048271395	24.42560959	488.5122	6.632134438	7.85311985	0.031862516	23.4670448	469.3409119	19.98056	15348.29178
	02	491.3787	848.0471191	3.234063	15.14595	9.38406467	9.621896744	0.023764834	20.15860748	483.8066	7.066543579	7.245998383	0.02939925	24.9310913	598.3461914	24	20353.13086
	03	501.1018	864.8270264	3.205326	15.19707	10.1265583	10.47431469	0.025870183	22.37361717	514.5932	7.209325314	7.458895683	0.030263038	26.1681252	601.8668823	24	20755.84863
	04	505.7499	872.8491821	3.241313	15.13305	9.4314394	9.652574539	0.023840588	20.81646347	499.5951	7.384990692	7.555328846	0.030654287	26.7563839	642.1531982	24	20948.38037
	05	504.0932	869.9902344	3.232538	15.14867	9.60918427	9.857809067	0.024347508	21.19607925	508.7059	7.246195793	7.433651447	0.030160617	26.2401199	629.7628784	24	20879.76563
	06	500.3651	863.5562134	3.220073	15.17084	10.2039404	10.50824738	0.025953995	22.42594528	538.2227	7.110265255	7.322252274	0.02970862	25.6556454	615.7354736	24	20725.34912
	07	498.45	860.2515869	3.221853	15.16768	9.91204834	10.20137787	0.025196075	21.68156624	520.3576	6.945714474	7.149054527	0.029005907	24.9540005	598.8959961	24	20646.03809
	08	492.7059	850.3374023	3.209071	15.19041	8.49772263	8.772845268	0.021667775	18.45774651	442.9859	7.142856121	7.382906437	0.02995472	25.4690247	611.2565918	24	20408.09766
	09	499.61	862.2524414	3.198259	15.20964	7.84063959	8.120463371	0.020056484	17.33261681	415.9828	7.619334221	7.901526928	0.032058921	27.6341915	663.2205811	24	20694.05859
	10	506.6291	874.3665771	3.213564	15.18243	9.42984676	9.730836868	0.024033908	21.02159119	504.5182	7.574128151	7.815872669	0.031711403	27.7271709	665.4520874	24	20984.79785
	11	505.9283	873.1574707	3.237879	15.13917	10.800766	11.06012726	0.027317068	23.8606205	572.6549	7.542385578	7.724744797	0.031341668	27.3668995	656.805603	24	20955.7793
	12	504.5029	870.6968384	3.252568	15.11302	11.8251123	12.05317879	0.029769775	25.93367004	622.4081	7.298660278	7.441343784	0.030191846	26.2874241	630.8981934	24	20896.72412
	13	502.1753	866.6807861	3.230121	15.15296	11.3781939	11.67311478	0.028831063	25.01955032	600.4692	7.317738056	7.513074398	0.030482855	26.4169083	634.0057983	24	20800.33887
	14	501.8956	866.1971436	3.224397	15.16315	9.40822506	9.676002502	0.023898445	20.70915413	497.0197	7.630782127	7.848703861	0.031844601	27.5837002	662.0087891	24	20788.73145
	15	506.1623	873.5605469	3.248118	15.12095	9.24065781	9.430655479	0.023292458	20.36997986	488.8795	7.58308506	7.742241859	0.031412646	27.442625	658.6229858	24	20965.45313
	16	504.5412	870.7631836	3.2602	15.09945	9.66641998	9.830143929	0.02427917	21.16354179	507.925	7.357327461	7.483406067	0.030362487	26.4412785	634.5906982	24	20898.31641
	17	495.05	854.3817139	3.255813	15.10726	8.81760025	8.978141785	0.022174826	18.95865059	455.0076	7.217898846	7.352079868	0.029829638	25.4911747	611.788208	24	20505.16113
	18	500.8876	864.4571533	3.273173	15.07635	11.0726376	11.21741581	0.027705517	23.95516586	574.924	7.072585583	7.165278912	0.029071741	25.1324749	603.1793823	24	20746.97168
	19	500.0247	862.9682617	3.259565	15.10058	11.0042868	11.1919632	0.027642675	23.91108704	573.8661	7.208199501	7.333445549	0.029754058	25.6753712	616.2089233	24	20711.23828
	20	492.091	849.2752686	3.27082	15.08055	7.81965637	7.923742294	0.019570621	16.63801193	399.3123	7.483402252	7.589424133	0.030792616	26.1473293	627.5358887	24	20382.60645
	21	497.9453	859.3791504	3.303634	15.02216	9.09661007	9.130007744	0.022549925	19.38679123	465.283	7.289916992	7.317779541	0.029690497	25.5151329	612.3632202	24	20625.09961
	22	494.2606	853.0209351	3.286463	15.05272	9.33445835	9.413452148	0.023250001	19.85333443	476.48	7.177673817	7.242631912	0.029385587	25.066576	601.5977783	24	20472.50244
	23	498.7748	860.8110962	3.295876	15.03597	10.1559305	10.21702099	0.025234716	21.72958374	521.51	7.070358753	7.113728523	0.028862596	24.8463039	596.3112793	24	20659.46631

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	502.2029	866.7282104	3.289736	15.04689	11.1039734	11.19159222	0.027641773	23.95800781	551.0342	7.042322636	7.098540306	0.02880097	24.9540787	573.9437866	24	20801.47705
	25	500.002	862.9303589	3.289199	15.04785	10.9764509	11.06702805	0.027334133	23.60699654	566.5679	7.044763088	7.10329771	0.028820267	24.8736954	596.968689	24	20710.32861
	26	504.621	870.9004517	3.303187	15.02298	10.98106	11.02423763	0.027228434	23.72613716	569.4273	7.284987926	7.313490391	0.029673075	25.842638	620.2233276	24	20901.61084
	27	494.1979	852.9118652	3.285192	15.05498	9.01378536	9.095541954	0.022464795	19.18619537	460.4687	7.28832674	7.356170654	0.029846245	25.4652996	611.1671753	24	20469.88477
	28	486.1152	838.9628906	3.28055	15.06325	9.0207777	9.111140251	0.022503316	18.89008331	453.362	7.03474617	7.11233902	0.028856957	24.2087173	581.0092163	24	20135.10938
	29	486.9947	840.4799805	3.299056	15.03031	9.40186787	9.449207306	0.023338309	19.61784554	470.8283	6.94523859	6.98145771	0.028325917	23.8077202	571.3853149	24	20171.51953
	30	486.3564	839.3799438	3.305415	15.01899	10.1001263	10.13202477	0.025024787	21.00826263	504.1983	6.82011652	6.84219265	0.027760884	23.3021336	559.2512207	24	20145.11865
	31	485.9006	838.5928955	3.27029	15.08149	10.302145	10.44401073	0.025795333	21.63725853	519.2942	6.768129826	6.863273621	0.027846413	23.3526039	560.4625244	24	20126.22949
Jan02	01	486.1263	838.9818115	3.259755	15.10023	9.79678535	9.960771561	0.0246018	20.64762497	495.543	6.928543568	7.048980236	0.028599879	23.9950409	575.8809814	24	20135.56348
	02	487.3741	841.1342163	3.26923	15.08338	9.93255901	10.06952763	0.024870399	20.92691231	502.2459	6.939674377	7.040163994	0.028564116	24.0251122	576.6027222	24	20187.22119
	03	493.4995	851.7076416	3.299311	15.02986	11.9537334	12.01408768	0.029673221	25.27311707	606.5548	6.743805885	6.778151035	0.027501034	23.4243126	562.1834717	24	20440.9834
	04	501.2609	865.1018677	3.289135	15.04795	13.1992207	13.30670452	0.032865822	28.4352417	682.4458	6.978784084	7.036159039	0.028547866	24.69767	592.7440796	24	20762.44482
	05	501.8376	866.0975952	3.276671	15.07013	13.6411963	13.80431652	0.034094863	29.53754234	708.901	6.899292469	6.982266903	0.028329208	24.5415535	588.9973145	24	20786.34229
	06	67.26103	557.1959839	2.136753	10.82828	10.0198603	16.03969955	0.039616041	20.55633926	102.7817	5.161017895	7.539711952	0.03059086	17.6104794	88.05239868	5	2785.979919
	07	415.6483	748.536377	2.921953	14.33822	15.0811958	32.2765007	0.079718664	23.37306404	537.5805	6.866692066	7.644640923	0.031016644	23.3312683	536.6191406	22.35833	16736.02602
	08	500.6291	864.0114746	3.31438	15.00305	7.93316841	7.937838554	0.019605437	16.95082092	406.8197	7.474181652	7.478686333	0.030343346	26.2172375	629.2136841	24	20736.27539
	09	497.302	858.2696533	3.302362	15.02443	6.86193085	6.892380238	0.017023275	14.61384201	350.7322	7.64238739	7.672652721	0.031130305	26.7222786	641.3347168	24	20598.47168
	10	497.4066	858.4499512	3.301408	15.02612	8.00200939	8.038542747	0.019854154	17.04603767	409.1049	7.242697716	7.274859428	0.029516337	25.338625	608.1270142	24	20602.79883
	11	447.9287	806.6693726	3.070485	14.07395	9.85227871	12.15894127	0.030031005	20.57435989	473.2103	6.83843565	7.076164246	0.02871017	24.0902519	554.0758057	23	18553.39557
	12															0	0
	13															0	0
	14															0	0
	15															0	0
	16															0	0
	17															0	0
	18															0	0
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	25															0	0
	26															0	0
	27															0	0
	28															0	0
	29															0	0
	30															0	0
	31															0	0
Feb02	01															0	0
	02	472.2965	889.2150879	3.221152	15.16893	8.35104275	20.29238892	0.050119512	13.83591747	304.3902	11.03947163	11.48133183	0.046583347	40.9533958	900.9747314	21.83333	19414.52829
	03	528.3793	911.9038086	3.322075	14.98936	0.78252155	0.781119406	0.001929264	1.762207508	42.29298	10.86531258	10.84591293	0.04400517	40.1273994	963.0576172	24	21885.69141
	04	525.1378	906.309082	3.330979	14.97351	0.78745043	0.783476412	0.001935084	1.757663369	42.18392	11.03384209	10.98461246	0.044567909	40.393322	969.4396973	24	21751.41797
	05	521.7634	900.4865112	3.348976	14.94149	0.79015309	0.782951951	0.001933789	1.743018746	41.83245	10.99647045	10.88953781	0.044182234	39.7900429	954.9609985	24	21611.67627
	06	516.5933	891.5633545	3.341663	14.95451	0.84229988	0.835580349	0.002063776	1.844950438	44.27881	10.42445469	10.34311008	0.041965146	37.4571877	898.9725342	24	21397.52051
	07	510.2416	880.6013184	3.324873	14.98438	0.78633726	0.783626676	0.001935454	1.709127069	41.01905	9.730491638	9.704336166	0.039373491	34.6823807	832.3770752	24	21134.43164
	08	517.5768	893.2607422	3.353429	14.93358	0.91654611	0.906222939	0.002238252	2.000169516	48.00407	9.42476368	9.318843842	0.037809413	33.7802925	810.7269897	24	21438.25781
	09	516.0353	890.6008911	3.330534	14.97431	0.90859693	0.9036538	0.002231907	1.992230058	47.81352	9.705519676	9.666717529	0.039220866	34.9163589	837.9926147	24	21374.42139
	10	511.6295	882.9957275	3.326656	14.98122	0.87107718	0.866127133	0.00213922	1.894376278	45.46503	9.667219162	9.643155098	0.039125245	34.525444	828.6107178	24	21191.89746
	11	512.244	884.0578613	3.318896	14.99501	0.83641797	0.835087419	0.002062557	1.826107502	43.82658	9.737169266	9.729899406	0.039477177	34.8911362	837.3873291	24	21217.38867
	12	511.9727	883.5884399	3.32125	14.99082	0.8308531	0.82941699	0.002048553	1.811686277	43.48047	9.685498238	9.672924995	0.039246012	34.6769676	832.2471924	24	21206.12256
	13	508.6787	877.9035034	3.33206	14.97159	0.88427228	0.879376769	0.002171945	1.908180475	45.79633	9.615066528	9.56964016	0.038826976	34.0867462	818.0819092	24	21069.68408
	14	510.404	880.8811646	3.350757	14.93833	1.01766062	1.007097483	0.002487401	2.193924665	52.65419	9.513792038	9.415949821	0.038203392	33.6558609	807.7406616	24	21141.14795

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	506.9068	874.845459	3.34885	14.94173	0.90684789	0.897464275	0.00221662	1.94152081	46.5965	9.395986557	9.304363251	0.037750676	33.0254745	792.6113892	24	20996.29102
	16	509.4072	879.1599731	3.341473	14.95485	0.97139603	0.963973641	0.002380889	2.09504509	50.28108	9.552267075	9.47978878	0.038462419	33.8146935	811.5526123	24	21099.83936
	17	509.764	879.7763062	3.33613	14.96435	0.77822953	0.773065388	0.001909371	1.682304144	40.3753	9.84559536	9.787053108	0.039709084	34.9327431	838.3858032	24	21114.63135
	18	516.4394	891.2978516	3.348785	14.94185	0.86265004	0.85376507	0.002108688	1.880894184	45.14146	9.795830727	9.700183868	0.039356619	35.0782127	841.8770752	24	21391.14844
	19	514.1345	887.3199463	3.334948	14.96646	0.91691262	0.911503196	0.002251294	1.997196078	45.93551	9.417413712	9.364355087	0.037994083	33.7118492	775.3724976	24	21295.67871
	20	509.8266	879.885437	3.333587	14.96887	0.94071233	0.935336471	0.002310158	2.034234524	48.82163	9.005361557	8.959035873	0.036349576	31.9813786	767.5531006	24	21117.25049
	21	506.4503	874.0582275	3.34376	14.95078	0.82258606	0.815573096	0.002014358	1.761408806	42.27381	8.885485649	8.813388824	0.035758611	31.2603092	750.2473755	24	20977.39746
	22	501.0136	864.675354	3.314827	15.00225	0.83244294	0.832113206	0.002055211	1.778597951	42.68635	9.033500671	9.037714958	0.036668777	31.7054539	760.9309082	24	20752.2085
	23	505.9564	873.2047729	3.318834	14.99514	0.77123404	0.770967603	0.001904188	1.664500833	39.94802	9.44113636	9.434082031	0.038276959	33.4254456	802.2106934	24	20956.91455
	24	511.7007	883.1190796	3.31667	14.99898	0.83117139	0.830967605	0.002052383	1.814157963	43.53979	9.421422005	9.419960022	0.038219679	33.7561874	810.1484985	24	21194.85791
	25	509.2115	878.8233643	3.304466	15.02069	0.84773314	0.850420654	0.002100427	1.84623909	42.4635	9.19466877	9.226459503	0.037434582	32.8887901	756.4421997	24	21091.76074
	26	505.0742	871.6828613	3.314891	15.00214	0.79524076	0.795139253	0.00196389	1.712914944	41.10996	9.082785606	9.089571953	0.036879193	32.1482849	771.5587769	24	20920.38867
	27	502.4835	867.211853	3.322013	14.98946	0.75501764	0.753651083	0.00186142	1.615969539	38.78327	9.208542824	9.194054604	0.037303112	32.3484955	776.3638916	24	20813.08447
	28	502.6566	867.5105591	3.330535	14.97431	0.66725826	0.663769662	0.001639425	1.424475551	34.18741	9.458785057	9.419528961	0.038217928	33.1531296	795.6751099	24	20820.25342
Mar02	01	507.5442	875.9453735	3.299946	15.02872	0.66582733	0.668650389	0.001651479	1.449525595	34.78862	10.00521374	10.05486965	0.04079568	35.7332268	857.5974121	24	21022.68896
	02	510.3741	880.8289185	3.278006	15.06777	0.71749723	0.725094557	0.001790888	1.580427885	37.93027	9.907598495	10.02355385	0.040668629	35.8162537	859.5900879	24	21139.89404
	03	508.2831	877.2209473	3.271584	15.07919	0.73880118	0.748446405	0.001848564	1.623494148	38.96386	9.599806786	9.730594635	0.039480012	34.6279526	831.0709229	24	21053.30273
	04	509.4893	879.3021851	3.258291	15.10285	0.79285586	0.806332707	0.001991537	1.753393769	42.08145	9.526034355	9.696219444	0.03934053	34.5893517	830.1444092	24	21103.25244
	05	506.0104	873.2996826	3.280231	15.0638	0.77981913	0.787279904	0.001944478	1.700276256	40.80663	9.512522697	9.619777679	0.039030381	34.0797768	817.9146118	24	20959.19238
	06	502.3762	867.0268555	3.301917	15.02522	0.73578054	0.738131762	0.001823088	1.582484961	37.97964	9.238591194	9.281366348	0.037657358	32.6458092	783.4993896	24	20808.64453
	07	507.6815	876.1824951	3.305479	15.01889	0.78935856	0.791414022	0.00195469	1.71323204	41.11757	9.308545113	9.33955574	0.037893441	33.2032509	796.8779907	24	21028.37988
	08	518.1514	894.2516479	3.296828	15.03428	0.88888347	0.893351853	0.002206462	1.976275444	47.43061	9.796624184	9.853466988	0.039978534	35.7538261	858.0917969	24	21462.03955
	09	512.4148	884.3516846	3.291042	15.04457	0.97314429	0.979695678	0.002419721	2.146428823	51.51429	9.302820206	9.373398781	0.038030759	33.6420135	807.4083252	24	21224.44043
	10	507.6212	876.078064	3.280741	15.0629	0.83164817	0.839961827	0.002074594	1.81925416	43.6621	9.273407936	9.374622345	0.038035724	33.321003	799.7041016	24	21025.87354
	11	509.387	879.1268921	3.288961	15.04827	0.95661736	0.963705122	0.002380224	2.093857288	48.15872	9.047796249	9.123780251	0.037017975	32.5356255	748.319397	24	21099.04541
	12	504.8683	871.3272705	3.279468	15.06517	0.86026531	0.870199144	0.00214928	1.873674989	44.9682	9.179448128	9.284217834	0.037668929	32.822773	787.746582	24	20911.85449
	13	512.0001	883.6358643	3.269993	15.08202	0.79444587	0.805318415	0.001989032	1.759271622	42.22252	9.780402184	9.919407845	0.040246077	35.5607071	853.4570313	24	21207.26074
	14	515.2969	889.3254395	3.292441	15.04208	0.87393814	0.879848599	0.002173112	1.935570002	46.45368	9.775322914	9.846147537	0.039948836	35.5243225	852.5837402	24	21343.81055
	15	511.7474	883.199707	3.271455	15.0794	0.82656014	0.836849153	0.002066906	1.831212878	43.94911	9.897102356	10.03309441	0.040707324	35.9449158	862.6779785	24	21196.79297
	16	143.272	593.4384155	2.232753	12.57332	10.1236286	46.39894485	0.114599161	14.78428078	147.8428	8.095879555	11.16503334	0.04529988	28.1162319	281.162323	9.663889	5734.922935
	17	523.3869	903.2888794	3.302681	15.02388	0.87505066	0.877479911	0.002167261	1.961509943	47.07624	10.04433155	10.08539963	0.040919591	36.959404	887.0256958	24	21678.93311
	18	526.4698	908.6083984	3.232666	15.14842	0.81107008	0.831190765	0.002052933	1.867123485	42.94384	9.791400909	10.0461359	0.04076029	37.0091019	851.2092896	24	21806.60156
	19	516.4284	891.2789307	3.262999	15.09446	0.90382695	0.918423176	0.002268387	2.025039911	48.60096	9.582952499	9.739229202	0.039515045	35.2250671	845.4016113	24	21390.69434
	20	505.6483	872.6738281	3.274633	15.07376	0.8621732	0.872566462	0.002155125	1.881394625	45.15347	9.437004089	9.557655334	0.038778327	33.8445549	812.2692871	24	20944.17188
	21	501.8434	866.1071777	3.284746	15.05578	0.77520877	0.782341361	0.001932282	1.676303387	40.23128	9.459737778	9.550252914	0.038748294	33.5614929	805.4758301	24	20786.57227
	22	506.5614	874.2479858	3.301217	15.02646	0.69984996	0.702487051	0.001735052	1.517130375	36.41113	9.790430069	9.836452484	0.039909486	34.891346	837.392334	24	20981.95166
	23	509.8439	879.9140015	3.303253	15.02285	0.73959613	0.742369592	0.001833556	1.613806725	38.73136	9.555924416	9.593226433	0.038922671	34.2485733	821.9658203	24	21117.93604
	24	512.7222	884.8827515	3.295621	15.03643	0.67329949	0.676354766	0.001670508	1.482384324	35.57722	9.709186554	9.770918846	0.039643627	35.0740089	841.7761841	24	21237.18604
	25	511.3714	882.5499878	3.29187	15.0431	0.69905531	0.704193771	0.001739266	1.534062862	36.81751	9.672460556	9.743225098	0.03953125	34.8941116	837.4586792	24	21181.19971
	26	508.0109	876.7514038	3.29435	15.03868	0.71352261	0.71938467	0.001776785	1.55847168	37.40332	9.491535187	9.554636002	0.038766101	33.9903793	815.769104	24	21042.03369
	27	503.0055	868.1127319	3.302425	15.02431	0.7130456	0.716299951	0.001769167	1.535902977	36.86167	9.24638176	9.285392761	0.037673686	32.7043114	784.9035034	24	20834.70557
	28	501.9393	866.2729492	3.31966	14.99365	0.66073978	0.659679472	0.001629322	1.41221416	33.89314	9.520470619	9.510749817	0.038588032	33.4263573	802.232605	24	20790.55078
	29	497.7304	859.0092773	3.330151	14.97498	0.63450748	0.631750226	0.001560342	1.3434093	32.24182	9.413474083	9.373918533	0.038032871	32.6720123	784.1282959	24	20616.22266
	30	495.3354	854.8748779	3.324684	14.98472	0.58251935	0.580525577	0.001433823	1.228035808	29.47286	9.233185768	9.209300041	0.03736496	31.9450836	766.6820068	24	20516.99707
	31	494.7719	853.902832	3.313746	15.00417	0.71463543	0.715221882	0.001766503	1.508660793	36.20786	9.088986397	9.095524788	0.036903352	31.5122623	756.2943115	24	20493.66797
Apr02	01	494.7169	853.8079834	3.291976	15.0429	0.80742937	0.81265825	0.002007161	1.715832114	41.17997	9.154117584	9.221747398	0.037415471	31.9451504	766.6835938	24	20491.3916
	02	495.2147	854.6661987	3.307005	15.01617	0.72512901	0.727196813	0.001796082	1.537681699	36.90436	9.195506096	9.221054077	0.037412655	31.976017	767.4243774	24	20511.98877
	03	499.874	862.7075806	3.321821	14.98981	0.66328335	0.661579609	0.001634014	1.412665129	33.90396	9.197892189	9.181830406	0.037253518	32.1419487	771.4067993	24	20704.98193
	04	503.4067	868.8049927	3.316671	14.99897	0.68983394	0.68945539	0.001702864	1.480460763	35.53106	9.274681091	9.273258209	0.03762446	32.6897812	784.5546875	24	20851.31982
	05	507.1214	875.215271	3.30993	15.01097	0.69635212	0.697545469	0.001722846	1.508906245	36.21375	9.441455841	9.459427834	0.038379818	33.5921211	806.2109375	24	21005.1665
	06	501.8605	866.1355591	3.306432	15.0172	0.59746397	0.599262714	0.001480101	1.282385826	30.77726	9.628898621	9.657569885	0.039183721	33.9393082	814.543396	24	20787.25342
	07	478.8238	862.3087769	3.316544	14.9992	0.60386467	0.60357964	0.001490762	1.288205147	29.62872	9.494444847	9.493375778	0.038517542	33.2143173	763.9293213	24	20695.41064
	08	499.0576	861.2993164	3.312034	15.00723	0.68802762	0.688805044	0.001701258	1.467473865	32.28442	8.89058876	8.900450706	0.036111865	31.1316776	684.8969116	24	20671.18359

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	09	499.8848	862.7264404	3.319659	14.99365	0.52671587	0.527335346	0.001302451	1.126920819	27.0461	8.717122078	8.707938194	0.035330784	30.480938	731.5424805	24	20705.43457
	10	499.8685	862.697998	3.317751	14.99706	0.71225083	0.71142906	0.001757137	1.517593384	36.42224	8.591683388	8.587360382	0.034841564	30.0582008	721.3967896	24	20704.75195
	11	499.0691	861.3182983	3.314318	15.00316	0.56693852	0.567599177	0.001401895	1.212491632	29.0998	8.660046577	8.66523838	0.035157531	30.2803211	726.7277222	24	20671.63916
	12	496.3324	856.5959473	3.32252	14.98857	0.54054719	0.538896501	0.001331003	1.139969349	27.35926	8.63508606	8.618396759	0.034967478	29.9563656	718.9528198	24	20558.30273
	13	492.4964	849.9769287	3.314509	15.00282	0.58776587	0.588028491	0.001452353	1.238686204	29.72847	8.508852005	8.513082504	0.034540195	29.3564548	704.5548706	24	20399.44629
	14	487.8435	841.9451904	3.307832	15.01471	0.48871851	0.489656657	0.001209388	1.020367265	24.48881	8.662431717	8.685025215	0.035237823	29.6645203	711.9484863	24	20206.68457
	15	505.1288	871.77771	3.284366	15.05645	0.47456887	0.478952497	0.00118295	1.03415215	24.81965	9.722539902	9.81717205	0.039831292	34.731842	833.564209	24	20922.66504
	16	508.5907	877.7518921	3.303571	15.02228	0.71797413	0.719991803	0.001778285	1.561440825	37.47458	9.564509392	9.601383209	0.038955759	34.1927185	820.6253052	24	21066.04541
	17	508.091	876.888855	3.297909	15.03235	0.74659139	0.750104427	0.00185266	1.626587868	39.03811	9.453697205	9.506322861	0.038570076	33.8212662	811.7103882	24	21045.33252
	18	511.475	880.7270508	3.286782	15.07118	0.79206115	0.800496399	0.001977521	1.746384144	41.91322	9.44654274	9.564761162	0.038816471	34.1719513	820.1268311	24	21137.44922
	19	510.5246	877.6334229	3.287799	15.08307	0.75931019	0.770081818	0.001902769	1.671892524	40.12542	9.451153755	9.587283134	0.0389142	34.1507874	819.6188965	24	21063.20215
	20	505.0496	868.2210693	3.28888	15.08116	0.72035897	0.729961455	0.001803633	1.566757917	37.60219	9.402981758	9.535391808	0.038703561	33.6007538	806.4180908	24	20837.30566
	21	501.9068	862.8180542	3.295558	15.06932	0.81193423	0.821406007	0.002029581	1.752498746	42.05997	9.1486063	9.25804615	0.037577849	32.4241905	778.180603	24	20707.6333
	22	498.7029	857.3115234	3.302574	15.05692	0.86333913	0.871495008	0.002153345	1.846882463	44.32518	8.93985939	9.027302742	0.036641262	31.4128666	753.9088135	24	20575.47656
	23	496.9892	854.364563	3.306368	15.0502	0.8306942	0.837918878	0.002070382	1.770724177	42.49738	8.864340782	8.941394806	0.036292568	31.0054836	744.1315918	24	20504.74951
	24	499.6017	858.8557739	3.319723	15.02658	0.66391951	0.666496992	0.001646823	1.414623737	33.95097	8.751620293	8.791965485	0.035686068	30.6479759	735.5513916	24	20612.53857
	25	500.5638	860.5088501	3.315845	15.03344	0.75660747	0.760724723	0.001879645	1.615248203	38.76596	8.874517441	8.925338745	0.036227398	31.1733627	748.1607056	24	20652.2124
	26	500.3543	860.1498413	3.319597	15.0268	0.84563929	0.850340068	0.002101073	1.808471203	43.40331	8.992641449	9.033951759	0.036668245	31.5404549	756.9708862	24	20643.59619
	27	309.877	752.0106812	2.882909	13.9564	7.88221359	22.05620575	0.05449795	8.566984177	145.6387	8.865502357	9.565074921	0.038824048	30.9224644	525.6818848	16.325	12276.57494
	28	512.3354	880.7456055	3.31877	15.02826	0.8068465	0.810664773	0.002003042	1.765350461	42.36841	9.273727417	9.318824768	0.037824549	33.3155899	799.5742188	24	21137.89453
	29	508.6516	874.4124756	3.313237	15.03805	0.44022816	0.443157643	0.001094982	0.959178865	23.02029	9.308226585	9.369166374	0.038028874	33.2527504	798.065979	24	20985.89941
	30	511.3321	879.0219727	3.31311	15.03827	0.49650875	0.499470145	0.001234122	1.085459352	26.05102	9.435095787	9.497159004	0.038548384	33.8833961	813.2014771	24	21096.52734
May 02	01	508.5552	874.2471924	3.301154	15.05943	0.84913611	0.858763695	0.002121888	1.847222447	44.33334	9.452584267	9.549096107	0.038759205	33.8829842	813.1915894	24	20981.93262
	02	504.1613	866.6955566	3.325765	15.01589	0.95581478	0.95980978	0.002371558	2.055705786	49.33694	9.210290909	9.236388206	0.037489936	32.4916954	779.8007202	24	20800.69336
	03	501.9968	862.9740601	3.334859	14.9998	0.58363241	0.582947612	0.001440383	1.248901606	29.97364	8.941449165	8.941134453	0.036291525	31.3220577	751.7293701	24	20711.37744
	04	499.4368	858.5723267	3.320485	15.02522	0.59110457	0.592597783	0.001464229	1.258320928	30.1997	9.005838394	9.044653893	0.036711689	31.5192051	756.4608765	24	20605.73584
	05	498.2202	856.4801636	3.332951	15.00317	0.62830681	0.628775954	0.00155362	1.328374267	31.88098	8.945264816	8.950423241	0.036329214	31.1142464	746.7418823	24	20555.52393
	06	498.7939	857.4672241	3.315207	15.03456	0.72163087	0.725847721	0.001793469	1.538599372	36.92638	9.141926765	9.196728706	0.037328955	32.0052567	768.1262207	24	20579.21338
	07	501.4609	862.0531616	3.316734	15.03187	0.75628954	0.76020509	0.001878363	1.620502114	38.89205	9.237638474	9.289587021	0.037705876	32.5063667	780.152832	24	20689.27588
	08	504.632	867.5031738	3.328245	15.0115	0.86026531	0.861815512	0.002129427	1.848009229	44.35222	9.19884491	9.217185974	0.037411999	32.454113	778.8986816	24	20820.07617
	09	502.7146	864.206604	3.313617	15.03738	0.83991551	0.844865739	0.002087549	1.805547476	43.33314	9.236047745	9.296348572	0.037733313	32.6070061	782.5681152	24	20740.9585
	10	507.1235	871.7866821	3.308404	15.0466	0.85152107	0.858243644	0.002120602	1.849144578	44.37947	9.384378433	9.459646225	0.038396146	33.4725342	803.3408203	24	20922.88037
	11	503.8634	866.1807861	3.312983	15.0385	0.86662436	0.871744812	0.002153963	1.866978765	44.80749	9.122373581	9.183478355	0.037275165	32.2863312	774.8720093	24	20788.33887
	12	498.748	857.387146	3.32621	15.0151	0.83371502	0.834961057	0.002063073	1.77191329	42.52592	8.84367466	8.866270065	0.035987645	30.8570633	740.569519	24	20577.2915
	13	498.3156	856.6455688	3.301282	15.0592	0.92481327	0.933692575	0.002307025	1.978066206	47.47359	8.724434853	8.813441277	0.035773236	30.6458206	735.4996948	24	20559.49365
	14	498.5078	856.9761963	3.312092	15.04008	0.84850061	0.854425132	0.002111167	1.811215401	43.46917	8.890097618	8.951018333	0.036331639	31.1356659	747.2559814	24	20567.42871
	15	494.0906	849.381958	3.320932	15.02444	0.760741	0.763787031	0.001887213	1.60492003	38.51808	8.841766357	8.878875732	0.036038809	30.6104832	734.6516113	24	20385.16699
	16	494.1405	849.4668579	3.33575	14.99823	0.7602641	0.759733677	0.001877198	1.595876217	38.30103	8.812829971	8.810394287	0.035760857	30.3771877	729.0524902	24	20387.20459
	17	489.5903	841.6461792	3.327482	15.01285	0.63418925	0.634803057	0.001568512	1.321872473	31.72494	8.916329384	8.936638832	0.03627326	30.5268173	732.6436157	24	20199.5083
	18	491.3625	844.6921387	3.328118	15.01173	0.65994495	0.660959721	0.00163314	1.380787492	33.1389	8.940335274	8.958930016	0.036363747	30.7148876	737.1572876	24	20272.61133
	19	498.2969	856.6123657	3.342045	14.98709	0.63895899	0.637569249	0.001575345	1.35052228	32.41254	9.080559731	9.061328888	0.036779389	31.5070801	756.1699219	24	20558.69678
	20	503.039	864.763916	3.341854	14.98742	0.73959607	0.737849474	0.001823125	1.576960444	37.84705	9.063708305	9.045179367	0.036713813	31.7536793	762.0883179	24	20754.33398
	21	507.8739	873.0758667	3.324366	15.01836	0.57584202	0.577199221	0.001426179	1.246175885	29.90822	9.079447746	9.108050346	0.036969032	32.2759743	774.6234131	24	20953.8208
	22	503.9755	866.3743896	3.305032	15.05257	1.28491294	1.295918465	0.003202035	2.77414012	66.57937	9.013150215	9.095341682	0.036917422	31.9833088	767.5994263	24	20792.98535
	23	500.0983	859.7105103	3.30179	15.05832	1.38093936	1.395424366	0.003447898	2.966302633	71.19126	9.063707352	9.155899048	0.037163228	31.9514999	766.8359985	24	20633.05225
	24	493.3654	848.1350098	3.314318	15.03614	0.98602235	0.991657555	0.002450248	2.084730864	50.03354	8.836677551	8.891201019	0.036088832	30.6106663	734.6560059	24	20355.24023
	25	334.0988	725.4859009	2.857063	13.64827	3.56941724	10.03903866	0.024805082	6.08236742	115.565	8.036916733	8.860695839	0.035965025	27.3678284	519.9887085	18.29722	13274.37669
	26	495.3956	851.6251831	3.331997	15.00486	0.80430311	0.805827618	0.001991089	1.692807317	40.62737	9.07293129	9.080985069	0.036859158	31.3872414	753.2938232	24	20439.00439
	27	496.134	852.8955688	3.333015	15.00306	0.78395253	0.783897877	0.001936903	1.652289867	39.65496	8.946537971	8.951449394	0.036333371	30.98843	743.72229	24	20469.49365
	28	495.8845	852.4656982	3.308212	15.04694	0.83085263	0.837270617	0.002068781	1.764463544	42.34712	8.746373177	8.817196846	0.035788465	30.5058632	732.140686	24	20459.17676
	29	490.1546	842.6141968	3.306815	15.04941	0.88331807	0.89143765	0.002202619	1.85413897	44.49934	8.548916817	8.621522903	0.034994245	29.4883251	707.7197876	24	20222.74072
	30	483.8842	831.8369751	3.298738	15.06371	0.90732473	0.916575313	0.002264729	1.887897372	45.30954	8.421092987	8.513636589	0.034556318	28.7450752	689.8817749	24	19964.0874
	31	482.1806	828.9086914	3.300073	15.06135	0.60938764	0.615607619	0.001521082	1.261823297	30.28376	8.659252167	8.751978874	0.035523746	29.4484005	706.7615967	24	19893.80859

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
Jun 02	01	491.7251	845.3156738	3.303825	15.0547	0.68395096	0.690193892	0.001705376	1.439944506	34.55867	9.180562019	9.267187119	0.037614938	31.7979507	763.1508179	24	20287.57617
	02	503.5628	865.6660156	3.315018	15.0349	0.6241731	0.626872838	0.001548916	1.343089819	32.23415	9.307589531	9.363503456	0.038005892	32.9008369	789.6201172	24	20775.98438
	03	497.904	855.9370728	3.315612	15.03385	0.80870211	0.812593758	0.002007806	1.713894606	41.13347	8.908327103	8.960277557	0.036369212	31.138237	747.317688	24	20542.48975
	04	490.3461	842.9447632	3.320995	15.02433	0.7882452	0.79130733	0.00195521	1.648891687	39.5734	8.514257431	8.54928875	0.034701038	29.2542324	702.1016235	24	20230.67432
	05	486.5222	836.3707886	3.31667	15.03197	0.63307625	0.63630712	0.001572228	1.317100048	31.6104	8.319820404	8.365207672	0.033953853	28.3992214	681.5812988	24	20072.89893
	06	484.2718	832.5028687	3.312346	15.03963	0.59809989	0.601052344	0.001485119	1.23667407	29.68018	8.388978004	8.447063446	0.034286115	28.5429497	685.0308228	24	19980.06885
	07	487.3101	837.7263184	3.311137	15.04176	0.86026514	0.86613977	0.002140112	1.792969465	43.03127	8.779921532	8.842665672	0.035891835	30.0690956	721.6583252	24	20105.43164
	08	494.8596	850.7042236	3.31915	15.02759	0.57059544	0.575281978	0.001421439	1.207621813	28.98292	9.074518204	9.117686272	0.037008129	31.4859409	755.6625977	24	20416.90137
	09	502.2529	863.413269	3.313492	15.0376	0.91670406	0.922939956	0.00228046	1.967436552	47.21848	9.501391411	9.563022614	0.038815718	33.5174294	804.4182739	24	20721.91846
	10	496.5991	853.6938477	3.303549	15.05519	0.65082955	0.657149374	0.001623726	1.385067344	33.24162	9.160105705	9.246674538	0.037531678	32.0432053	769.0368652	24	20488.65234
	11	494.0798	849.3629761	3.310057	15.04367	0.77759331	0.783737838	0.001936508	1.647397041	39.53753	8.91537571	8.982671738	0.036460109	30.9707546	743.2980957	24	20384.71143
	12	492.2773	846.2648315	3.311774	15.04064	0.86900944	0.875297666	0.002162738	1.82895422	43.8949	8.743354797	8.804522514	0.035737026	30.2428493	725.8284302	24	20310.35596
	13	492.2224	846.1703491	3.310566	15.04278	0.84357154	0.849914551	0.002100025	1.778269172	42.67846	8.786758423	8.851671219	0.035928398	30.4049416	729.7186279	24	20308.08838
	14	493.9342	849.1126099	3.31648	15.03231	0.82831013	0.832577288	0.002057185	1.75024128	42.00579	8.780239105	8.829357147	0.035837829	30.4391289	730.5391235	24	20378.70264
	15	491.3687	844.7017212	3.313937	15.03681	0.72067678	0.725315571	0.001792155	1.514420867	36.3461	8.768792152	8.823927879	0.035815783	30.2526798	726.0643311	24	20272.84131
	16	493.6948	848.7018433	3.317053	15.0313	0.74977106	0.753645837	0.001862155	1.581017494	37.94442	8.888985634	8.936793327	0.036273897	30.7847748	738.8345947	24	20368.84424
	17	492.7147	847.0158081	3.28995	15.07928	0.66224283	0.670413971	0.001656501	1.403843522	30.88456	8.654368401	8.772060394	0.035605267	30.1443825	663.1763916	24	20328.37939
	18	487.426	837.9244995	3.301537	15.05877	0.61844999	0.624340951	0.001542661	1.293402433	31.04166	8.42681694	8.511757851	0.0345487	28.9477577	694.7462158	24	20110.18799
	19	484.1291	832.2573242	3.312092	15.04009	0.64976996	0.654216588	0.001616479	1.345924139	32.30218	8.509329796	8.567673683	0.034775659	28.9409542	694.5828857	24	19974.17578
	20	487.467	837.9953003	3.30872	15.04604	0.68983412	0.695185065	0.001717707	1.440198302	34.56476	8.789142609	8.859305382	0.035959367	30.1372051	723.2929077	24	20111.88721
	21	496.1786	852.9711914	3.314571	15.03569	0.87950206	0.884838223	0.002186312	1.864788294	44.75492	8.958460808	9.013702393	0.036586076	31.2075615	748.9815063	24	20471.30859
	22	493.4475	848.2767334	3.311203	15.04165	0.71749729	0.723297358	0.001787168	1.518285871	36.43886	8.507899284	8.568754196	0.03478004	29.5057621	708.1383057	24	20358.6416
	23	487.308	837.7214355	3.312919	15.03861	0.56042045	0.564368844	0.001394478	1.170713186	28.09712	8.455116272	8.510975838	0.034545537	28.9378586	694.508606	24	20105.31445
	24	487.5334	838.1087646	3.303698	15.05492	0.66582727	0.672007322	0.001660438	1.391793489	33.40305	8.435878754	8.515414238	0.034563553	28.9673328	695.2160034	24	20114.61035
	25	485.2892	834.2503662	3.313363	15.03782	0.75581253	0.760602176	0.001879343	1.568564177	37.64554	8.251934052	8.305914879	0.033713188	28.1246796	674.9923096	24	20022.00879
	26	486.6483	836.5880127	3.313746	15.03715	0.64754415	0.651578128	0.001609961	1.347572088	32.34173	8.398674965	8.452505112	0.034308214	28.7016926	688.8405762	24	20078.1123
	27	486.9093	837.0366211	3.312792	15.03884	0.71781522	0.722350478	0.001784828	1.493627906	35.84707	8.447645187	8.503874779	0.034516715	28.8914089	693.3937988	24	20088.87891
	28	485.7007	834.9586182	3.303761	15.05481	0.63975382	0.645939529	0.001596028	1.333429813	32.00232	8.347482681	8.425907135	0.034200244	28.5554295	685.3303223	24	20039.00684
	29	449.6015	772.8306885	3.046398	14.20391	1.02227008	6.98724556	0.017264511	1.683859587	40.41263	7.718858719	8.185822487	0.033225745	26.4738636	635.3727417	24	18547.93652
	30	33.86804	698.6650391	2.82738	15.89765	3.78700995	12.88724422	0.031842574	7.768569946	15.53714	9.891994476	15.68330956	0.063657448	33.1637001	66.32740021	1.991667	1391.508125
Jul 02	01	481.0745	827.0055542	3.320741	15.02478	0.76423848	0.767283916	0.001895853	1.56882751	37.65186	8.247163773	8.282618523	0.03361864	27.8063545	667.352478	24	19848.1333
	02	488.7307	840.1679077	3.316226	15.03276	0.75072491	0.754745483	0.001864871	1.567437053	37.61849	8.488503456	8.536808014	0.034650393	29.1170998	698.8104248	24	20164.02979
	03	491.4726	844.8811646	3.315908	15.03333	0.63244057	0.636098027	0.001571711	1.32886374	31.89273	8.66529274	8.71487999	0.03537317	29.8869171	717.2860107	24	20277.14795
	04	490.3709	842.9871826	3.321251	15.02388	0.65056479	0.653363764	0.001614372	1.361393332	32.67344	8.679284096	8.71440506	0.035371251	29.8165913	715.5982056	24	20231.69238
	05	491.4038	844.7630615	3.321249	15.02388	0.81368268	0.816638947	0.002017802	1.705165386	40.92397	8.457183838	8.491972923	0.03446839	29.1173878	698.8173218	24	20274.31348
	06	490.6927	843.5397339	3.318896	15.02804	0.60541338	0.608223855	0.001502837	1.269129872	30.45912	8.420775414	8.461356163	0.034344126	28.9703407	695.288208	24	20244.95361
	07	489.6097	841.6790771	3.327673	15.01251	0.62655795	0.627878964	0.001551402	1.306607485	31.35858	8.256544113	8.274219513	0.033584557	28.2670422	678.4089966	24	20200.29785
	08	490.4282	843.0865479	3.33346	15.00228	0.74007303	0.740568399	0.001829843	1.544764161	37.07434	8.157178879	8.160383224	0.033122491	27.9254875	670.2116699	24	20234.07715
	09	485.7502	835.0436401	3.333205	15.00272	0.48983145	0.490575165	0.001212143	1.015496016	24.3719	8.122519493	8.126898766	0.032986574	27.5474453	661.1386719	24	20041.04736
	10	482.0661	828.7104492	3.333331	15.0025	0.48681071	0.487306803	0.001204069	0.998783767	23.97081	8.068147659	8.072174072	0.032764461	27.1513367	651.6320801	24	19889.05078
	11	485.5215	834.6514282	3.31737	15.03074	0.37727028	0.378688872	0.000935688	0.77969718	18.71273	8.33412838	8.378286362	0.034006953	28.3860283	681.2647095	24	20031.63428
	12	484.1068	832.2193604	3.325256	15.01679	0.73705256	0.738912046	0.001825749	1.521558285	36.5174	8.338419914	8.362551689	0.033943091	28.2529202	678.0700684	24	19973.26465
	13	485.2524	834.1887207	3.330343	15.00779	0.6725046	0.673084319	0.001663099	1.389449716	33.34679	8.128879547	8.139979362	0.033039674	27.5605373	661.4528809	24	20020.5293
	14	480.7802	826.5001831	3.343634	14.98427	0.59571499	0.59375906	0.001467097	1.213387847	29.12131	8.031105042	8.010500908	0.03251414	26.8717422	644.921814	24	19836.00439
	15	486.5	836.3330688	3.323328	15.0202	0.62650484	0.627703726	0.00155097	1.298171163	31.15611	8.154634476	8.183432579	0.033216063	27.7790546	666.6973267	24	20071.99365
	16	488.2228	839.2942505	3.330664	15.00723	0.68840301	0.688867033	0.001702097	1.429420471	34.30609	8.27132988	8.282168388	0.033616818	28.2165203	677.1965332	24	20143.06201
	17	488.9203	840.4937134	3.339566	14.99148	0.71813303	0.716950595	0.001771487	1.490937352	35.7825	8.166718483	8.155262947	0.033101715	27.8203583	667.6885986	24	20171.84912
	18	488.4485	839.6812744	3.328881	15.01038	0.75485873	0.756177545	0.001868409	1.571075797	37.70582	8.153203964	8.167955399	0.033153225	27.8368874	668.0853271	24	20152.35059
	19	485.7448	835.0341187	3.338165	14.99395	0.7445246	0.743744195	0.001837689	1.535277963	36.84667	8.073713303	8.065869331	0.032738883	27.3374214	656.0980835	24	20040.81885
	20	306.3543	743.4431152	2.985078	13.77565	3.53573442	7.646397591	0.018893192	4.910804749	83.48368	7.75560236	8.000602722	0.032473959	25.9948292	441.9121094	16.88611	12553.86245
	21	492.3076	846.3166504	3.330979	15.00666	0.72035897	0.721187472	0.001781954	1.51030004	36.2472	8.552412987	8.562316895	0.034753907	29.4139996	705.9359741	24	20311.59961
	22	493.4099	848.2106934	3.326908	15.01386	0.76185405	0.76368314	0.001886957	1.602059126	38.44942	8.464178085	8.484847069	0.034439478	29.2189999	701.2559814	24	20357.05664
	23	491.7693	845.3911743	3.341473	14.9881	0.81845242	0.816990733	0.00201867	1.708427548	41.00226	8.246845245	8.23208046	0.033413503	28.25737	678.1768799	24	20289.38818

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	24	488.734	840.1726074	3.343762	14.98405	0.83975619	0.83717382	0.00206854	1.740190029	41.76456	7.911708832	7.890538692	0.032027211	26.9095173	645.8283691	24	20164.14258
	25	487.3487	837.7924805	3.335621	14.99845	0.83975649	0.839427829	0.00207411	1.738379955	41.72112	7.982456207	7.980929852	0.032394107	27.1392632	651.3422852	24	20107.01953
	26	490.6568	843.4785156	3.322075	15.02241	0.76201332	0.764700592	0.00188947	1.594156265	38.25975	8.31012249	8.342090607	0.033860043	28.5598621	685.4367065	24	20243.48438
	27	490.3407	842.9353638	3.320932	15.02444	0.69062907	0.693284035	0.001713009	1.444577456	34.66986	8.450982094	8.487108231	0.03444865	29.0388966	696.9334717	24	20230.44873
	28	490.1292	842.5715942	3.354318	14.96537	0.72449249	0.720341444	0.001779864	1.500626683	36.01504	8.214572906	8.167541504	0.033151537	27.9355011	670.4520264	24	20221.71826
	29	489.9334	842.2363892	3.32621	15.0151	0.77075702	0.772044837	0.001907617	1.608337522	38.6001	7.989608765	8.010235786	0.032513048	27.3836422	657.2073975	24	20213.67334
	30	485.2964	834.2644653	3.344779	14.98225	0.79285598	0.791102767	0.001954706	1.632418275	39.17804	7.919974804	7.897236824	0.032054413	26.7423115	641.8154907	24	20022.34717
	31	486.6642	836.616333	3.339056	14.99238	0.78458875	0.783201814	0.001935183	1.620966673	38.9032	8.008371353	7.998240948	0.032464366	27.1592293	651.8215332	24	20078.79199
Aug 02	01	486.4476	836.2432861	3.338228	14.99384	0.73021597	0.729297519	0.001801993	1.508164644	36.19595	8.106305122	8.098504066	0.032871328	27.4869499	659.6867676	24	20069.83887
	02	485.5117	834.6327515	3.347833	14.97685	0.65628827	0.653915167	0.001615735	1.349514246	32.38834	8.115684509	8.084817886	0.032815784	27.3905964	657.3743286	24	20031.18604
	03	490.203	842.6991577	3.339883	14.99091	0.76773649	0.76626128	0.001893325	1.596434593	38.31443	8.10455513	8.092131615	0.032845471	27.6800327	664.3208008	24	20224.77979
	04	493.9396	849.1219482	3.339501	14.99159	0.83403307	0.832582355	0.002057197	1.748000026	41.952	8.252569199	8.241127014	0.033450242	28.4029865	681.6716919	24	20378.92676
	05	494.0908	849.381958	3.328562	15.01094	0.79842049	0.79983294	0.001976276	1.679897904	40.31755	8.28357029	8.299099922	0.03368555	28.61092	686.6621094	24	20385.16699
	06	496.4641	853.4624023	3.330916	15.00677	0.7171793	0.718145311	0.001774439	1.51587379	36.38097	8.381505966	8.391274452	0.034059659	29.0686665	697.6480103	24	20483.09766
	07	495.0464	851.0252686	3.32799	15.01195	0.81559086	0.816910565	0.002018474	1.718647957	41.24755	8.26815033	8.285261154	0.033629362	28.6194916	686.8677979	24	20424.60645
	08	491.9675	845.7311401	3.33982	14.99102	0.80875432	0.807899177	0.001996207	1.690057039	40.56137	8.177846909	8.165475845	0.033143166	28.0303879	672.7293091	24	20297.54736
	09	488.003	838.9163208	3.343254	14.98495	0.72783136	0.726022899	0.001793903	1.507033706	36.16881	8.136828423	8.11635685	0.032943793	27.6363506	663.2723999	24	20133.9917
	10	485.6185	834.8170166	3.327609	15.01262	0.68967515	0.691187799	0.00170783	1.42688334	34.2452	8.192950249	8.210924149	0.033327639	27.8218002	667.7232056	24	20035.6084
	11	486.1758	835.7756958	3.335177	14.99924	0.6920597	0.691799998	0.001709344	1.429754615	34.31411	8.19438076	8.193671227	0.033257607	27.7952538	667.0861206	24	20058.6167
	12	485.1158	833.9526978	3.329707	15.00891	0.81988347	0.820646524	0.002027703	1.691811204	40.60347	8.151245117	8.164309502	0.033138447	27.6347256	663.2333984	24	20014.86475
	13	483.8429	831.7660522	3.322904	15.02095	0.64913392	0.651279569	0.001609222	1.339419961	32.14608	8.169261932	8.199401855	0.033280868	27.6803875	664.3292847	24	19962.38525
	14	483.8648	831.803894	3.343253	14.98495	0.64706719	0.645252705	0.00159433	1.327857733	31.86858	8.174509048	8.154135704	0.033097144	27.529583	660.710022	24	19963.29346
	15	483.4342	831.0623779	3.345163	14.98158	0.61081868	0.608644247	0.001503877	1.250963211	30.02312	8.177370071	8.152384758	0.033090033	27.4976501	659.9436035	24	19945.49707
	16	482.8105	829.9902344	3.346179	14.97977	0.57870364	0.576640725	0.0014248	1.183582425	28.40598	8.144460678	8.117113113	0.032946866	27.3451366	656.2833252	24	19919.76563
	17	482.3298	829.1638184	3.35769	14.95941	0.63832307	0.633624136	0.001565597	1.298727036	31.16945	7.997398853	7.943410397	0.032241825	26.732563	641.5814819	24	19899.93164
	18	482.8324	830.0280151	3.334096	15.00115	0.59571499	0.595353425	0.001471035	1.221700072	29.3208	8.300743103	8.303701401	0.03370421	27.9738884	671.373291	24	19920.67236
	19	485.8823	835.2702637	3.330534	15.00745	0.55400807	0.554549396	0.001370215	1.145158768	27.48381	8.298144341	8.309066772	0.033725996	28.169754	676.0740967	24	20046.48633
	20	488.2338	839.3130493	3.335493	14.99868	0.62703508	0.626805484	0.001548749	1.300383329	31.2092	8.265288353	8.26363945	0.033541609	28.1510868	675.6260986	24	20143.51318
	21	491.047	844.1491699	3.33454	15.00036	0.58140659	0.581555903	0.001436944	1.213674426	29.12819	8.465608597	8.466345787	0.034364384	29.0098	696.2352295	24	20259.58008
	22	491.261	844.517334	3.348469	14.97573	0.70128071	0.698282063	0.001725359	1.458292484	34.99902	8.334923744	8.301225662	0.033694163	28.4557877	682.9389038	24	20268.41602
	23	492.489	846.628479	3.344464	14.98281	0.68267965	0.68039155	0.001681154	1.425475001	34.2114	8.217752457	8.194141388	0.033259515	28.1592083	675.8209839	24	20319.0835
	24	490.1015	842.5244751	3.337085	14.99586	0.6647144	0.664064944	0.001640812	1.383671641	33.20812	8.152885437	8.147441864	0.033069976	27.8607216	668.6572876	24	20220.5874
	25	490.4699	843.1573486	3.332758	15.00351	0.6694839	0.669445395	0.00165411	1.395972133	33.50333	8.180548668	8.186032295	0.033226594	28.0130463	672.3131104	24	20235.77637
	26	490.75	843.638916	3.327609	15.01262	0.6497699	0.651024818	0.001608593	1.358337045	32.60009	8.27784729	8.295956612	0.033672772	28.4060669	681.7456055	24	20247.33398
	27	486.6843	836.649231	3.334541	15.00036	0.5763191	0.576385021	0.001424168	1.192421675	28.61812	8.354001999	8.355031967	0.033912554	28.3724174	680.9379883	24	20079.58154
	28	484.6591	833.1685181	3.353237	14.96729	0.5891968	0.58610785	0.001448191	1.20730257	28.97526	8.34923172	8.303425789	0.033703092	28.0795498	673.9091797	24	19996.04443
	29	485.4427	834.5146484	3.363349	14.9494	0.57616019	0.571102142	0.001411114	1.178421617	28.28212	8.181025505	8.111698151	0.032924891	27.4764671	659.4351807	24	20028.35156
	30	484.0968	832.2005615	3.371552	14.93489	0.65088278	0.643715799	0.001590534	1.324535489	31.78885	8.112187386	8.024097443	0.032569315	27.1032085	650.4769897	24	19972.81348
	31	333.9644	725.1937866	2.953537	14.02446	3.71060324	10.92699814	0.026999192	5.339241028	101.4456	7.703955173	8.727071762	0.035422631	25.2363472	479.4906006	18.39722	13341.55146
Sep 02	01	486.8951	837.0130615	3.370218	14.93725	0.77155203	0.76328814	0.00188598	1.580608368	37.9346	8.237307549	8.151051521	0.03308462	27.6924458	664.6187134	24	20088.31348
	02	486.0466	835.5536499	3.356544	14.96144	0.73307765	0.728129685	0.001799108	1.503975391	36.09541	8.325543404	8.272276878	0.033576671	28.0534325	673.2824097	24	20053.2876
	03	487.5249	838.0944824	3.311156	15.04175	0.67721629	0.681299269	0.001683397	1.411432624	31.05152	8.539957047	8.599697113	0.034905642	29.2517452	643.5383911	24	20114.26758
	04	488.2608	839.3602905	3.308403	15.0466	0.68236166	0.687867641	0.001699627	1.427479148	34.2595	8.279596329	8.346503258	0.033877946	28.4394093	682.5457764	24	20144.64697
	05	496.1157	852.8624878	3.329644	15.00902	0.85724461	0.858317673	0.002120786	1.809605479	43.43053	8.442238808	8.455207825	0.03431917	29.2725716	702.541687	24	20468.69971
	06	494.5939	850.2460938	3.326272	15.01499	0.80748248	0.809315264	0.001999707	1.700792074	40.81901	8.566723824	8.589271545	0.034863319	29.6412048	711.388916	24	20405.90625
	07	497.077	854.515564	3.322776	15.02118	0.73355478	0.736263454	0.001819206	1.555733681	37.33761	8.830318451	8.862980843	0.035974294	30.738966	737.7352295	24	20508.37354
	08	498.6318	857.1885376	3.335177	14.99924	0.80859518	0.808229268	0.001997024	1.712621689	41.10292	8.608059883	8.606925011	0.034934986	29.9453831	718.689209	24	20572.5249
	09	492.9613	847.440918	3.322778	15.02118	0.67393547	0.676260114	0.001670944	1.418560028	34.04544	8.500426292	8.531416893	0.034628503	29.3466911	704.3206177	24	20338.58203
	10	488.7252	840.1583252	3.314063	15.03659	0.60445923	0.608041644	0.001502386	1.262834191	30.30802	8.395655632	8.448560715	0.034292195	28.8107452	691.4578857	24	20163.7998
	11	488.1568	839.1807861	3.310756	15.04244	0.59698707	0.601075828	0.001485176	1.246984124	29.92762	8.41425705	8.476086617	0.034403905	28.8691864	692.8604736	24	20140.33887
	12	487.9204	838.7746582	3.324048	15.01892	0.64309263	0.644988358	0.001593677	1.337692499	32.10462	8.430631638	8.458236694	0.034331478	28.7964706	691.1152954	24	20130.5918
	13	487.9087	838.7556763	3.328627	15.01083	0.65342647	0.654390275	0.001616906	1.356785893	32.56286	8.368787766	8.384601593	0.034032568	28.5445175	685.0684204	24	20130.13623
	14	487.1731	837.4899292	3.322458	15.02174	0.6561293	0.658584654	0.001627272	1.364164114	32.73994	8.484051704	8.515091896	0.03456223	28.9406414	694.5753784	24	20099.7583

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	486.8822	836.9893799	3.316097	15.03299	0.64309257	0.646521747	0.001597466	1.338649035	32.12758	8.317276955	8.364628792	0.033951517	28.4160252	681.9846191	24	20087.74512
	16	491.6651	845.211731	3.333397	15.00239	1.02878916	1.025427699	0.002533688	2.147867441	51.54882	8.361473083	8.364816666	0.033952281	28.6934662	688.6431885	24	20285.08154
	17	491.4704	844.8764648	3.33117	15.00632	0.69905519	0.699571967	0.001728545	1.462012053	35.08829	8.331585884	8.340965271	0.033855475	28.6024914	686.4597778	24	20277.03516
	18	485.571	834.7366333	3.332632	15.00374	0.5802936	0.580631912	0.001434662	1.199146152	28.77951	8.322680473	8.32845974	0.0338047	28.2177162	677.2252197	24	20033.6792
	19	478.6047	822.7597656	3.317626	15.03029	0.50859135	0.510871172	0.001262293	1.040312409	24.9675	8.319979668	8.364076614	0.033949271	27.9270458	670.2490845	24	19746.23438
	20	478.5984	822.7504272	3.309167	15.04525	0.54229641	0.546267271	0.001349751	1.111739993	26.68176	8.341601372	8.406612396	0.034121931	28.0747623	673.7943115	24	19746.01025
	21	479.9037	824.9935303	3.304207	15.05403	0.60048467	0.605896115	0.001497085	1.236647844	29.67955	8.201853752	8.278017044	0.033599954	27.7184715	665.2432861	24	19799.84473
	22	479.9725	825.1115112	3.312029	15.04019	0.72751302	0.73267132	0.00181033	1.493408799	35.84181	8.166718483	8.223046303	0.033376824	27.5393715	660.9448853	24	19802.67627
	23	477.8354	821.437439	3.302342	15.05733	0.54627132	0.55076623	0.001360867	1.122555852	26.94134	8.118598938	8.198471069	0.033277094	27.335413	656.0499268	24	19714.49854
	24	478.8597	823.1989746	3.313301	15.03794	0.71717906	0.721542537	0.001782831	1.466786385	35.20287	8.20026207	8.25353241	0.033500586	27.5776882	661.864502	24	19756.77539
	25	479.9644	825.0976563	3.319787	15.02647	0.78029627	0.784162521	0.001937558	1.597886205	38.34927	8.378167152	8.417180061	0.034164835	28.1860161	676.4644165	24	19802.34375
	26	482.0823	828.7387695	3.313555	15.03749	1.01082313	1.017292976	0.002513591	2.08410573	50.01854	8.502016068	8.556886673	0.03473188	28.7832546	690.7980957	24	19889.73047
	27	489.3322	841.2020264	3.336448	14.99699	0.86503524	0.86626327	0.002140419	1.798390985	43.16138	8.526182175	8.52233696	0.034591645	29.0980949	698.3543091	24	20188.84863
	28	492.368	846.4208374	3.346369	14.97944	0.76201302	0.759732723	0.001877193	1.58894527	38.13469	8.395656586	8.366605759	0.033959541	28.7439384	689.8544922	24	20314.1001
	29	493.6781	848.6732788	3.314579	15.03568	1.08045983	1.083199501	0.002676434	2.274594069	50.04107	8.29980278	8.350334167	0.033893511	28.7504539	632.5100098	24	20368.15869
	30	494.1592	849.499939	3.26145	15.12972	0.75310981	0.769391358	0.00190106	1.616452932	38.79487	8.266452789	8.45304966	0.034310408	29.1443329	699.4639893	24	20387.99854
Oct 02	01	498.0389	856.1685181	3.272219	15.11065	0.69635242	0.710184455	0.001754768	1.502878785	36.06909	8.595023155	8.759957314	0.035556134	30.4431381	730.6353149	24	20548.04443
	02	490.9509	843.9837646	3.283539	15.09062	0.84516209	0.858396769	0.002120982	1.776644111	42.63946	8.688029289	8.823076248	0.035812311	30.2446918	725.8726196	24	20255.61035
	03	497.8716	855.8804321	3.28125	15.09468	0.68077189	0.691344917	0.001708219	1.463922143	35.13413	8.647484779	8.788705826	0.035672829	30.5316467	732.7595215	24	20541.13037
	04	493.0986	847.677002	3.279406	15.09793	0.60684407	0.617207587	0.001525035	1.293947935	31.05475	8.761639595	8.909697533	0.036163915	30.6544952	735.7078857	24	20344.24805
	05	491.0045	844.0782471	3.293268	15.07338	0.63657427	0.644298553	0.001591973	1.345484614	32.29163	8.544465065	8.652041435	0.035118125	29.6446667	711.4719849	24	20257.87793
	06	486.6485	836.5880737	3.288881	15.08114	0.60096157	0.609231174	0.001505326	1.260797381	30.25914	8.303284645	8.419257164	0.034173258	28.5907497	686.1779785	24	20078.11377
	07	482.4451	829.3621216	3.289136	15.08069	0.55056351	0.558062315	0.001378895	1.144742489	27.47382	8.296290398	8.411561966	0.034142014	28.3150425	679.5609741	24	19904.69092
	08	478.8459	823.1754761	3.305224	15.05223	0.50223213	0.506604314	0.001251751	1.03149116	24.75579	8.415688515	8.491194725	0.034465231	28.3702049	680.8848877	24	19756.21143
	09	479.019	823.4729004	3.325193	15.0169	0.50652486	0.507932246	0.001255028	1.034105897	24.81854	8.411077499	8.435424805	0.034238886	28.1957703	676.6984863	24	19763.34961
	10	484.2203	832.4130249	3.342936	14.98551	0.57806814	0.576545	0.001424563	1.186949015	28.48678	8.449551582	8.42920208	0.034213603	28.4810371	683.5449219	24	19977.9126
	11	491.5739	845.0557861	3.350376	14.97235	0.71002501	0.706431687	0.001745495	1.476478338	35.43548	8.267673492	8.228825569	0.033400308	28.2281036	677.4744873	24	20281.33887
	12	282.966	686.741272	2.723581	13.00778	5.16255045	19.80517197	0.048936006	11.28863716	191.9068	6.877633095	7.608379841	0.030881947	23.5038948	399.5661926	16.69444	11464.76416
	13	251.0387	739.8092651	2.936398	13.71507	0.68962944	0.832957089	0.002058121	1.433882833	20.07436	8.162628174	9.45071125	0.038359858	27.9760647	391.664917	13.28056	9825.078172
	14	490.8184	843.757019	3.345924	14.98023	0.80175894	0.798743606	0.001973585	1.666526675	39.99664	8.433016777	8.405083656	0.034115717	28.7855549	690.8532715	24	20250.16846
	15	492.9944	847.4975586	3.343318	14.98484	0.81400096	0.811705589	0.002005614	1.701308727	40.83141	8.639378548	8.617444992	0.034977678	29.6435452	711.4451294	24	20339.94141
	16	498.4177	856.8200684	3.362076	14.95165	0.85565501	0.848840475	0.002097369	1.797925472	43.15021	8.800429344	8.729177475	0.035431199	30.3595467	728.6290894	24	20563.68164
	17	498.7085	857.3208008	3.365128	14.94625	0.8772766	0.869074523	0.002147363	1.842048287	44.20916	8.713307381	8.634531021	0.035047021	30.0488033	721.1713257	24	20575.69922
	18	495.1897	851.2710571	3.203983	15.23136	0.6939674	0.707406878	0.001747904	1.489282608	35.74278	8.319662094	8.688191414	0.035264842	30.0198212	720.475708	24	20430.50537
	19	496.6785	853.8308105	3.337976	14.99429	0.99540228	0.994392931	0.002457007	2.099483252	50.3876	8.484209061	8.476236343	0.03440452	29.377037	705.0488892	24	20491.93945
	20	494.6375	850.3216553	3.341853	14.98742	0.91225344	0.91041404	0.002249506	1.914798737	45.95517	8.50487709	8.487104416	0.034448635	29.2939339	703.0543823	24	20407.71973
	21	493.772	848.8339844	3.109885	15.39784	0.64892185	0.672807932	0.001662415	1.412462711	33.89911	8.251086235	8.880840302	0.036046796	30.593771	734.2504883	24	20372.01563
	22	496.4173	853.382019	3.30497	15.05268	0.85788065	0.865474164	0.002138468	1.826101303	43.82643	8.645578384	8.723623276	0.035408672	30.2185211	725.2445068	24	20481.16846
	23	499.1796	858.128479	3.311267	15.04154	0.94993258	0.956350446	0.00236301	2.029569864	48.70968	8.579280853	8.639984131	0.035069168	30.0959492	722.3027954	24	20595.0835
	24	503.7768	866.0343018	3.306813	15.04941	0.99937713	1.007667422	0.00248981	2.156800508	51.76321	8.602811813	8.675602913	0.035213754	30.4964256	731.9141846	24	20784.82324
	25	501.3632	861.8829956	3.307323	15.04851	0.96567202	0.973768592	0.002406047	2.074602127	49.79045	8.667042732	8.739320755	0.035472367	30.5748577	733.7966309	24	20685.19189
	26	499.8271	859.243103	3.302171	15.05763	0.95915395	0.968940854	0.002394117	2.058014631	49.39235	8.559727669	8.643489838	0.035083383	30.1429214	723.4301147	24	20621.83447
	27	499.2609	858.2700195	3.294222	15.07169	0.96360517	0.991898179	0.002450844	2.104127407	50.49906	8.56020546	8.796717644	0.035705317	30.645071	735.4816895	23.9	20512.65314
	28	498.854	857.5710449	3.326909	15.01386	0.98061615	0.982824385	0.002428425	2.083810806	50.01146	8.525385857	8.545637131	0.034686223	29.7462044	713.9088745	24	20581.70508
	29	496.618	853.7268677	3.338165	14.99395	0.92179215	0.920825005	0.002275232	1.943379641	46.64111	8.672606468	8.664181709	0.035167374	30.0235996	720.5664063	24	20489.44482
	30	497.2993	854.8980103	3.352601	14.96841	0.923859	0.918804765	0.002270242	1.941816211	46.60359	8.729999542	8.683666229	0.035246465	30.1323833	723.1771851	24	20517.55225
	31	503.1351	864.9291382	3.350502	14.97213	1.02672267	1.02155757	0.002524128	2.18417573	52.42022	8.765452385	8.724309921	0.035411432	30.6289883	735.0957031	24	20758.29932
Nov 02	01	503.9732	866.3696899	3.326909	15.01386	1.0001719	1.002109051	0.002476076	2.146430016	51.51432	8.808380127	8.829658508	0.035839058	31.0489368	745.1744995	24	20792.87256
	02	503.7446	865.9777222	3.306624	15.04975	1.05645168	1.064905405	0.002631234	2.281502962	54.75607	8.809333801	8.884697914	0.036062449	31.2273293	749.4559326	24	20783.46533
	03	502.7578	864.2822266	3.324049	15.01892	1.04611909	1.049348831	0.002592797	2.2427876	53.8269	8.781511307	8.810275078	0.035760365	30.9076748	741.7841797	24	20742.77344
	04	501.14	861.5004883	3.317858	15.02988	1.01924872	1.024004221	0.00253017	2.181433678	52.35441	8.778490067	8.823475838	0.035813954	30.8502121	740.4050903	24	20676.01172
	05	500.7908	860.9008179	3.306432	15.05009	1.19047499	1.2000736	0.002965215	2.554842949	61.31623	8.625864029	8.701028824	0.035316955	30.4043999	729.7056274	24	20661.61963
	06	499.1459	858.0717163	3.308403	15.0466	1.26313233	1.273018241	0.003145453	2.700861216	64.82067	8.550983429	8.619613647	0.034986489	30.0214043	720.5136719	24	20593.72119

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	07	496.3954	853.3443604	3.312284	15.03974	1.17886984	1.186811328	0.002932447	2.505618334	60.13484	8.250343323	8.306997299	0.033717588	28.7810497	690.7451782	24	20480.26465
	08	484.2198	832.4130859	3.334923	14.99969	0.91781759	0.917668521	0.002267433	1.889114141	45.33874	8.00057888	7.999657154	0.032470111	27.0265007	648.6359863	24	19977.91406
	09	485.829	835.180542	3.341599	14.98787	0.99731088	0.99498409	0.002458471	2.057528734	49.38069	8.104077339	8.087839127	0.032828048	27.4096088	657.8305664	24	20044.33301
	10	500.2473	859.9655762	3.322967	15.02084	1.35089207	1.35546875	0.003349176	2.881040335	69.14497	8.041278839	8.069968224	0.032755502	28.1686878	676.0485229	24	20639.17383
	11	500.5407	860.4708862	3.310884	15.04221	1.49604464	1.506638765	0.003722695	3.204185724	76.90046	7.891038418	7.947980881	0.03226037	27.7599659	666.2391968	24	20651.30127
	12	494.3025	849.7454224	3.320124	15.02586	1.28104365	1.286975384	0.003179938	2.707248211	64.97396	7.828557491	7.863312244	0.0319167	27.1238632	650.9727173	24	20393.89014
	13	495.3433	851.5354004	3.337784	14.99463	1.25152791	1.25028336	0.003089281	2.63125968	63.15023	7.884203434	7.877166271	0.031972926	27.2265511	653.4371948	24	20436.84961
	14	492.602	846.8220215	3.278197	15.10005	1.20605588	1.222817421	0.003021414	2.559743404	61.43384	7.792149067	7.935112476	0.03220813	27.2668419	654.4041748	24	20323.72852
	15	494.6978	850.4255981	3.343381	14.98472	1.20494378	1.201852798	0.002969614	2.528446198	60.68271	7.902008057	7.881912708	0.031992201	27.2101955	653.0446777	24	20410.21436
	16	496.4065	853.3630981	3.344906	14.98203	1.29286301	1.289006233	0.003184958	2.721853256	65.32448	8.057177544	8.034003258	0.03260953	27.8341751	668.0202026	24	20480.71436
	17	500.0189	859.5735474	3.345607	14.98079	1.29190874	1.287298322	0.00318074	2.735793352	65.65904	8.026810646	8.00083065	0.032474887	27.9160366	669.9849243	24	20629.76514
	18	500.1971	859.8804932	3.347068	14.9782	1.32428789	1.319197893	0.003259555	2.803715944	67.28918	7.801213264	7.772830486	0.031549435	27.1319256	651.1661987	24	20637.13184
	19	499.9502	859.4554443	3.347133	14.97809	1.43419957	1.428513765	0.00352966	3.035369635	72.84887	7.560987473	7.532928944	0.030575687	26.2798252	630.7158203	24	20626.93066
	20	492.1238	846.0004883	3.333778	15.00171	1.1648798	1.16516149	0.002878957	2.440227032	58.56545	7.659959793	7.66117239	0.031096222	26.2847385	604.5490112	24	20304.01172
	21	486.549	836.4177856	3.335432	14.99879	1.05597675	1.055167913	0.002607176	2.183393002	52.40143	7.918224812	7.918123722	0.032139171	26.8818378	645.1641235	24	20074.02686
	22	488.8325	840.3424683	3.349676	14.97359	1.1076448	1.102814555	0.002724904	2.291323662	54.99177	7.923155785	7.888035774	0.032017041	26.9057331	645.7376099	24	20168.21924
	23	497.7141	855.611145	3.349869	14.97325	1.15550041	1.150128722	0.002841812	2.431912422	58.3659	7.97625494	7.940438271	0.032229755	27.5761871	661.8284912	24	20534.66748
	24	498.8867	857.6278076	3.341981	14.9872	1.24675536	1.243861675	0.003073411	2.636390924	63.27338	7.956381798	7.939231396	0.032224849	27.637104	663.2905273	24	20583.06738
	25	496.9528	854.3028564	3.333206	15.00272	1.19142997	1.191963792	0.002945177	2.516640902	60.39938	8.000897408	8.004732132	0.032490712	27.7565327	666.1567993	24	20503.26855
	26	500.2619	859.9891968	3.330025	15.00835	1.26631045	1.267662048	0.003132219	2.695145369	64.68349	7.924267292	7.935638905	0.032210257	27.7010422	664.8250122	24	20639.74072
	27	501.2112	861.623291	3.32322	15.02039	1.2130512	1.216850877	0.003006675	2.591099501	62.18639	8.128880501	8.158755302	0.033115882	28.5365295	684.876709	24	20678.95898
	28	499.585	858.8273926	3.328753	15.0106	1.28681982	1.288400054	0.003183458	2.737354279	65.6965	8.069260597	8.084347725	0.032813858	28.1796494	676.3115845	24	20611.85742
	29	497.7857	855.7340698	3.328244	15.0115	1.20732892	1.20953238	0.002988586	2.558764696	61.41035	8.172441483	8.189088821	0.033239007	28.4447079	682.6729736	24	20537.61768
	30	494.8272	850.6474609	3.31419	15.03636	1.13133419	1.138234138	0.002812422	2.392862558	57.4287	7.928083897	7.977479935	0.032380108	27.5442467	661.0618896	24	20415.53906
Dec 02	01	496.6428	853.7692871	3.327734	15.0124	1.13721645	1.139675975	0.002815982	2.405228376	57.72548	7.928400517	7.945135593	0.032248829	27.5324879	660.7797241	24	20490.46289
	02	497.7504	855.6726074	3.324303	15.01847	1.11368668	1.11717999	0.002760401	2.362702847	56.70487	8.096287727	8.12184906	0.032966085	28.2098255	677.0358276	24	20536.14258
	03	497.7011	855.5877075	3.339437	14.9917	1.12624609	1.124544501	0.002778597	2.378242493	57.07782	8.081025124	8.069885254	0.032755174	28.0256958	672.6166992	24	20534.10498
	04	497.7723	855.7104492	3.338421	14.9935	1.16789913	1.1665591	0.002882411	2.467583656	59.22201	7.984204292	7.975563049	0.032372322	27.7024117	664.8579102	24	20537.05078
	05	497.679	855.5498047	3.334223	15.00093	1.21957207	1.219526291	0.00301328	2.578529119	61.8847	8.048592567	8.049993515	0.032674443	27.9556293	670.9351196	24	20533.19531
	06	494.5381	850.1516113	3.336895	14.9962	1.02974391	1.029034257	0.002542601	2.163261175	51.91827	8.186749458	8.18164444	0.03320878	28.2331715	677.5961304	24	20403.63867
	07	494.8105	850.6192627	3.348914	14.97494	1.10589719	1.101164699	0.002720827	2.315047026	55.56113	7.991359234	7.957692623	0.032299794	27.474926	659.3981934	24	20414.8623
	08	496.1619	852.9428101	3.330725	15.00711	1.19778979	1.199302435	0.002963312	2.528690338	60.68857	7.920928955	7.930783272	0.032190569	27.4567509	658.9619751	24	20470.62744
	09	495.0223	850.9827881	3.330025	15.00835	1.20017576	1.201572776	0.002968919	2.527305365	60.65533	8.138258934	8.150054932	0.033080593	28.1515331	675.6367798	24	20423.58691
	10	497.8298	855.8096313	3.334287	15.00081	1.55630004	1.556043744	0.003844768	3.291697025	79.00073	8.243825912	8.245207787	0.033466786	28.6412754	687.390625	24	20539.43115
	11	499.2782	858.2985229	3.322203	15.02219	1.46536088	1.470759153	0.003634042	3.119561672	74.86948	8.321251869	8.352828026	0.03390361	29.0993671	698.3848267	24	20599.16455
	12	500.2862	860.0318604	3.327101	15.01353	1.44723499	1.450669527	0.003584402	3.083724976	74.0094	8.397246361	8.417367935	0.034165572	29.3849239	705.2382202	24	20640.76465
	13	498.0331	856.1590576	3.332188	15.00453	1.37140036	1.372354984	0.003390906	2.903945923	69.6947	8.401536942	8.408336639	0.034128912	29.2212296	701.3095093	24	20547.81738
	14	25.77472	354.4706726	1.402626	7.96841	1.71320999	8.06523037	0.019928038	2.893606663	8.68082	4.150136471	7.477113247	0.030349167	13.7164001	41.14920044	3	1063.412018
	15															0	0
	16	35.7225	368.4595642	1.465584	10.47222	20.5968208	71.64090729	0.177014813	31.86576462	127.4631	4.654114723	8.256714821	0.033513449	15.1266346	60.50653839	3.769444	1388.887689
	17	509.3024	875.5318604	3.276862	15.10243	1.2749182	1.296983957	0.003204672	2.808363438	64.59236	8.532576561	8.683621407	0.035246301	30.862257	709.8319092	24	21012.76465
	18	516.3762	887.692749	3.297529	15.06584	1.52386665	1.5409621	0.003807507	3.381192446	81.14862	8.482938766	8.578660011	0.034820255	30.9098244	741.8358154	24	21304.62598
	19	501.5961	862.2843628	3.183506	15.26762	1.16472089	1.207100034	0.002982577	2.590550184	62.17321	8.521252632	8.923727989	0.036220867	31.2425709	749.8217163	24	20694.82471
	20	495.212	851.3088989	3.202647	15.23372	1.231812	1.277689576	0.003156994	2.689238787	64.54173	7.941755295	8.266626358	0.033553716	28.5783081	685.8793945	24	20431.41357
	21	504.5387	867.3425293	3.267196	15.11955	1.09922016	1.121574759	0.002771259	2.404774666	57.71459	8.350503922	8.523381233	0.034595888	30.0061092	720.1466064	24	20816.2207
	22	496.9917	854.3691406	3.287863	15.08294	2.44359207	2.478275061	0.006123475	5.188703537	124.5289	7.943025589	8.056490898	0.032700803	27.96315	671.1156006	24	20504.85938
	23	489.5084	841.5043945	3.309358	15.04492	2.50480175	2.520770788	0.006228476	5.205104351	124.9225	8.081662178	8.145218849	0.033060949	27.8483009	668.3591919	24	20196.10547
	24	487.2695	837.6552734	3.31489	15.03512	2.75361204	2.767004251	0.006836887	5.681175232	136.3482	7.806617737	7.854194641	0.031879682	26.7292957	641.5031128	24	20103.72656
	25	483.2364	830.7223511	3.290789	15.07779	3.05186749	3.088923454	0.0076323	6.315506458	151.5722	7.650336266	7.752622604	0.031467415	26.1520672	627.6495972	24	19937.33643
	26	487.0413	837.2631836	3.264714	15.12395	1.91242456	1.950388193	0.004819143	4.000888348	96.02132	7.73745966	7.904230118	0.032082792	26.8863544	645.272522	24	20094.31641
	27	493.2805	847.9886475	3.269421	15.11562	1.45105112	1.477886081	0.003651651	3.080304623	73.92731	7.714247704	7.869477272	0.031941716	27.0938625	650.2526855	24	20351.72754
	28	494.8734	850.7279663	3.267767	15.11854	1.26647127	1.287564635	0.003181395	2.689330816	64.54394	8.078322411	8.247974396	0.033478029	28.4997787	683.9946899	24	20417.47119
	29	479.0196	823.4729004	3.313363	15.03782	2.23786592	2.250816584	0.00556146	4.572799683	109.7472	7.661465645	7.71135807	0.03129993	25.7776413	618.6633911	24	19763.34961

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	487.0109	837.2113647	3.287991	15.08272	1.94438112	1.955049157	0.004830657	4.002661228	96.06387	7.664486408	7.780570507	0.031580858	26.4669342	635.2064209	24	20093.07275
	31	498.2717	856.5700073	3.179945	15.2739	1.32577276	1.355906367	0.003350258	2.82818532	67.87645	7.438091278	7.819291592	0.031738028	27.2156124	653.1746826	24	20557.68018
Jan 03	01	474.4092	815.5480957	3.325956	15.01555	2.40289164	2.407875538	0.005949525	4.845103264	116.2825	7.367820263	7.387201309	0.029984204	24.451767	586.8424072	24	19573.1543
	02	490.4453	843.1148682	3.308339	15.04672	1.99636912	2.006497622	0.00495778	4.129558563	99.10941	7.616155624	7.67877388	0.031167675	26.3024502	631.2587891	24	20234.75684
	03	500.5989	860.5700684	3.315336	15.03434	1.58761954	1.598028779	0.003948507	3.38711381	81.29073	7.703118801	7.747816086	0.031447925	27.0764008	649.8336182	24	20653.68164
	04	501.3984	861.944397	3.319024	15.02781	1.82450712	1.835497141	0.004535258	3.904203653	93.70089	7.565756321	7.600728035	0.0308509	26.5964661	638.3151855	24	20686.66553
	05	501.7585	862.5632324	3.318006	15.02961	1.741835	1.751367927	0.004327388	3.718497992	89.24395	7.667187691	7.705725193	0.031277072	26.9877453	647.7059326	24	20701.51758
	06	505.0467	868.2163086	3.306686	15.04964	1.32640707	1.337454557	0.003304665	2.870387793	68.88931	7.804870129	7.871079922	0.031948231	27.7396507	665.7515869	24	20837.19141
	07	494.4395	849.9816895	3.309484	15.04469	2.3653717	2.383174658	0.005888498	4.94631052	118.7114	7.559238434	7.61666441	0.030915579	26.3031292	631.2750854	24	20399.56055
	08	500.9502	861.1746826	3.304779	15.05302	1.39381766	1.406657577	0.003475655	2.993385077	71.84124	7.93507719	8.006827354	0.032499239	27.991991	671.8078003	24	20668.19238
	09	499.3707	858.4591064	3.311583	15.04097	1.22195554	1.229916692	0.003038954	2.611084461	62.66603	7.782610416	7.837613106	0.031812392	27.3067341	655.3615723	24	20603.01855
	10	500.69	860.7258911	3.316099	15.03299	1.31670916	1.323277116	0.003269637	2.816940784	67.60658	7.484354496	7.527177811	0.030552346	26.2948284	631.0759277	24	20657.42139
	11	501.2118	861.6231689	3.299819	15.06179	1.38411915	1.398337483	0.003455098	2.97837925	71.4811	7.494373798	7.574015617	0.030742453	26.4892998	635.7432251	24	20678.95605
	12	502.6869	864.1594849	3.327992	15.01195	1.46774745	1.470499992	0.003633401	3.140670776	75.3761	7.444449902	7.459684372	0.030278409	26.1652966	627.9671021	24	20739.82764
	13	502.621	864.0462036	3.294159	15.0718	1.43228996	1.449655056	0.0035819	3.09623909	74.30974	7.431731701	7.52329874	0.03053662	26.3849754	633.2393799	24	20737.10889
	14	504.5605	867.3803711	3.318705	15.02838	1.84946668	1.856178284	0.004586366	3.951679945	94.84032	7.527122974	7.564477921	0.030703755	26.6498413	639.5961914	24	20817.12891
	15	504.4345	867.1630859	3.315526	15.034	1.60685623	1.615743279	0.003992277	3.451509237	82.83622	7.540158272	7.584261417	0.030784057	26.7006302	640.8151245	24	20811.91406
	16	491.86	845.5471191	3.315844	15.03344	2.44534087	2.456689596	0.006070143	5.074027538	121.7767	7.254462719	7.296280384	0.029615168	25.061079	601.4658813	24	20293.13086
	17	497.4264	855.1153564	3.321059	15.02421	2.55249596	2.560689926	0.006327112	5.353239059	128.4777	7.478632927	7.510259628	0.030483671	26.0998993	626.397583	24	20522.76855
	18	508.7471	874.5778198	3.307833	15.04761	1.69700122	1.709792495	0.004224663	3.687400341	88.49761	7.740321159	7.803735256	0.031674899	27.7067127	664.9611206	24	20989.86768
	19	479.9037	824.9936523	3.33804	14.99417	3.11530328	3.108492613	0.007680657	6.294371605	151.0649	7.314718723	7.308682442	0.029665483	24.4956703	587.8961182	24	19799.84766
	20	483.4697	831.1237183	3.333333	15.0025	3.32118797	3.319450855	0.008201906	6.733438015	161.6025	7.482924938	7.487210274	0.030390121	25.3005047	607.2120972	24	19946.96924
	21	489.0964	840.7959595	3.329136	15.00992	2.73977947	2.741579533	0.006774067	5.616370201	134.7929	7.337930679	7.350626945	0.029835738	25.103796	602.4910889	24	20179.10303
	22	501.9557	862.9031982	3.313236	15.03805	1.49509001	1.503762126	0.003715587	3.208904505	77.01371	7.486422539	7.535835743	0.030587504	26.3943462	633.4642944	24	20709.67676
	23	499.5688	858.7990723	3.305605	15.05155	1.4141674	1.425825715	0.003523014	3.029696226	72.71271	7.377676487	7.443198204	0.030211495	25.9436092	622.6466064	24	20611.17773
	24	501.0458	861.3398438	3.316226	15.03276	1.52974916	1.537972093	0.003800117	3.274654627	78.59171	7.292142868	7.333189011	0.029764971	25.636858	615.2846069	24	20672.15625
	25	175.7721	659.2719727	2.596985	13.45528	14.453598	41.30662918	0.102063172	15.65682888	172.2251	7.173731804	8.766458511	0.035582516	23.9433041	263.3763428	10.35278	6825.296661
	26	504.9616	868.0699463	3.313173	15.03816	1.47823954	1.487628341	0.003675725	3.191715479	76.60117	7.688651085	7.738708496	0.031410929	27.2675533	654.4213257	24	20833.67871
	27	506.1071	870.0393066	3.31451	15.0358	1.5440588	1.55302453	0.00383731	3.341866732	80.2048	7.941118717	7.989577293	0.0324292	28.2162876	677.190918	24	20880.94336
	28	504.0162	866.4451904	3.296894	15.06697	1.49154043	1.508268356	0.003726721	3.227091789	77.4502	7.878798008	7.969867706	0.032349207	28.0295715	672.7097168	24	20794.68457
	29	501.8787	862.7709351	3.300137	15.06123	1.41591585	1.430636287	0.003534902	3.050397396	73.20954	7.728716373	7.810150623	0.03170092	27.3511333	656.4271851	24	20706.50244
	30	503.1761	865.0001831	3.324428	15.01825	1.5892092	1.593980789	0.003938506	3.408820868	81.8117	7.642705441	7.666457176	0.031117683	26.9157085	645.9769897	24	20760.00439
	31	503.2636	865.151123	3.316036	15.0331	1.58952749	1.59808588	0.003948647	3.419780493	82.07473	7.783883095	7.827612877	0.031771783	27.4891758	659.7401733	24	20763.62695
Feb 03	1	506.8159	871.2578125	3.301727	15.05842	1.4788754	1.494122505	0.00369177	3.217161179	77.21187	8.033013344	8.113823891	0.032933511	28.6948204	688.6757202	24	20910.1875
	2	493.1924	847.8376465	3.316609	15.03209	1.91767252	1.926960945	0.004761257	4.008221626	96.19732	7.94620657	7.99028635	0.032432087	27.5176868	660.4244995	24	20348.10352
	3	479.7117	824.663147	3.316925	15.03152	2.30543494	2.31630826	0.00572328	4.668705463	112.0489	7.784519196	7.826962471	0.031769153	26.2257919	629.4190063	24	19791.91553
	4	495.4807	851.7716064	3.307068	15.04896	1.68905163	1.700963736	0.00420285	3.541565895	84.99758	7.993266106	8.060739517	0.032718029	27.8944378	669.4664917	24	20442.51855
	5	489.8463	842.085144	3.302555	15.05695	1.81941879	1.832739711	0.004528449	3.770745516	90.49789	7.980705261	8.060398102	0.032716665	27.5782833	661.8787842	24	20210.04346
	6	493.3548	848.1162109	3.29276	15.0743	1.42927098	1.443410397	0.00356647	2.995169163	71.88406	8.302014351	8.410198212	0.034136474	28.9721088	695.3305664	24	20354.78906
	7	494.9451	850.850708	3.053265	15.49804	0.58522213	0.620293558	0.001532661	1.307074904	31.3698	7.954314709	8.687624931	0.035262529	30.0087547	720.210083	24	20420.41699
	8	496.0875	852.8153687	3.308722	15.04604	1.56742787	1.577885866	0.003898738	3.293823004	79.05175	8.173871994	8.239181519	0.033442322	28.5487576	685.1702271	24	20467.56885
	9	486.2469	835.8984985	3.313555	15.03749	1.91481042	1.922778726	0.00475092	3.928090811	94.27418	7.948750496	8.000930786	0.032475274	27.1761494	652.2276001	24	20061.56396
	10	490.5383	843.2753296	3.28818	15.08241	1.69477308	1.714131951	0.004235383	3.523478746	84.56349	8.007627487	8.12300396	0.032970775	27.8375492	668.1011963	24	20238.60791
	11	496.9153	854.2369995	3.299372	15.06259	1.20192182	1.214007735	0.002999642	2.552522421	61.26054	7.998513699	8.086229324	0.032821517	28.0571995	673.3728027	24	20501.68799
	12	491.2011	844.4135132	3.316226	15.03276	0.82115513	0.825806439	0.002040453	1.723726273	41.36943	7.857810497	7.902178764	0.032074466	27.0837956	650.0111084	24	20265.92432
	13	497.4969	855.2379761	3.344844	14.98214	1.11670744	1.113040209	0.002750169	2.354257107	56.50217	7.678953648	7.656369209	0.031076742	26.5783672	637.8807983	24	20525.71143
	14	504.4197	867.1395264	3.346051	14.98	1.29826796	1.293483734	0.003196019	2.772523642	66.54057	7.558759212	7.533582687	0.030578341	26.5155335	636.3728027	24	20811.34863
	15	500.3329	860.1120605	3.346455	14.97929	1.36165047	1.356722474	0.003352275	2.884459257	69.22702	7.430195808	7.404364586	0.030053863	25.8496914	620.3925781	24	20642.68945
	16	497.8373	855.8236694	3.342108	14.98697	1.6008141	1.598723769	0.003950224	3.361943722	80.68665	7.364799976	7.348050117	0.029825276	25.5366707	612.880127	24	20539.76807
	17	504.2144	866.7852173	3.33416	15.00104	1.62816167	1.628377914	0.004023497	3.474570274	83.38969	7.611225128	7.612647057	0.030899279	26.7934837	643.0435791	24	20802.84522
	18	505.0548	868.2304688	3.329326	15.00959	1.39254665	1.393856645	0.003444027	2.989565849	71.74958	7.674820423	7.687610149	0.031203549	27.0932999	650.2391968	24	20837.53125
	19	501.5687	862.2371826	3.316926	15.03152	1.65471208	1.663173318	0.004109473	3.509604216	84.2305	7.692943573	7.734933853	0.031395633	27.0925369	650.2208862	24	20693.69238
	20	497.0689	854.5014038	3.313427	15.03773	1.8717258	1.880874157	0.004647381	3.917731524	94.02556	7.552876949	7.603411198	0.03086178	26.4123993	633.897583	24	20508.03369

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	507.2585	872.0179443	3.333905	15.00149	1.33674252	1.336846709	0.003303167	2.882465839	69.17918	7.699940681	7.701810837	0.03126118	27.2653256	654.3677979	24	20928.43066
	22	503.0939	864.8583374	3.330216	15.00801	1.25200248	1.253149986	0.003096361	2.679908752	64.31781	7.635549068	7.646016121	0.031034708	26.8414326	644.194397	24	20756.6001
	23	499.0165	857.8498535	3.315526	15.034	1.04516506	1.051020861	0.002596929	2.229133844	53.49921	7.767348766	7.812852859	0.031711888	27.2053299	652.9279175	24	20588.39648
	24	493.8134	848.9049683	3.281313	15.09455	0.88935965	0.903274596	0.002231866	1.897484183	45.53962	7.915046215	8.044594765	0.032652523	27.7159824	665.1835938	24	20373.71924
	25	500.7049	860.7542114	3.300455	15.06066	1.01384437	1.024108887	0.002530434	2.180140495	52.32337	7.907096863	7.989573956	0.032429185	27.9105625	669.8535156	24	20658.10107
	26	503.5934	865.7178955	3.290788	15.07779	1.10573816	1.119649529	0.002766497	2.39705205	57.52925	7.828081608	7.933494091	0.032201566	27.8759499	669.0228271	24	20777.22949
	27	492.278	846.2648315	3.288944	15.08104	1.93150377	1.957606316	0.004836976	4.043894291	97.05346	7.579746246	7.685609341	0.031195404	26.4362087	634.4689941	24	20310.35596
	28	489.4834	841.461853	3.292568	15.07464	1.54246807	1.557714462	0.003848898	3.193546295	76.64511	7.630462646	7.730309963	0.031376854	26.435854	634.4605103	24	20195.08447
Mar 03	1	501.8457	862.7142334	3.271838	15.11133	0.97632474	0.995033562	0.002458595	2.122673273	50.94416	7.881180286	8.032956123	0.032605272	28.1300259	675.1206055	24	20705.1416
	2	501.3295	861.8262939	3.256829	15.1379	1.12640643	1.153604269	0.002850397	2.45768404	58.98442	7.688649654	7.872760296	0.031955045	27.5391369	660.93927	24	20683.83105
	3	500.8467	860.9951782	3.255367	15.1405	1.02719986	1.05236125	0.002600242	2.239287376	53.7429	7.874346256	8.066729546	0.03274237	28.1911335	676.5872192	24	20663.88428
	4	493.7121	848.7302856	3.29047	15.07835	1.32338762	1.339875817	0.003310648	2.783369541	66.80087	7.762579441	7.868527889	0.031937886	27.1303463	651.1282959	24	20369.52685
	5	490.0194	842.3828125	3.325256	15.01679	1.64914608	1.652377844	0.004082797	3.406280756	81.75074	7.529667377	7.551667213	0.030651754	25.8398285	620.1558838	24	20217.1875
	6	496.7836	854.0102539	3.310249	15.04334	1.24850583	1.257095575	0.003106113	2.641554117	63.3973	7.556853771	7.613041401	0.030900883	26.3976212	633.5429077	24	20496.24609
	7	497.5112	855.2617188	3.295176	15.07	1.16837645	1.18210113	0.002920807	2.498412609	59.9619	7.602004051	7.693650246	0.031228047	26.7079163	640.9899902	24	20526.28125
	8	145.5085	666.9656982	2.437084	11.94587	1.77808404	1.626535654	0.004018942	3.174093246	28.56684	5.733619213	6.110918999	0.024803834	21.2546215	191.2915955	8.75	5835.949859
	9	102.4286	704.3320923	2.690272	16.14023	13.0151186	110.4760513	0.272971898	24.62042618	147.7225	7.073538303	12.62842178	0.051257934	24.8277378	148.9664307	5.241667	3691.87414
	10	504.9039	867.9707031	3.282457	15.09253	1.47696579	1.500042558	0.003706399	3.219272614	77.26254	7.878797054	8.00398159	0.032487676	28.2013741	676.8330078	24	20831.29687
	11	499.5363	858.7423096	3.288562	15.08173	1.31416583	1.332210422	0.003291707	2.827874899	67.869	7.79453516	7.905025482	0.032086	27.5543118	661.3035278	24	20609.81543
	12	495.3681	851.578186	3.295622	15.06922	1.25009632	1.264302492	0.003123919	2.662540436	63.90097	7.666871071	7.757762909	0.031488281	26.8167419	643.6018066	24	20437.87646
	13	494.5331	850.1422729	3.301854	15.0582	1.18173266	1.192850351	0.002947367	2.508020878	60.1925	7.658919811	7.73511982	0.031396385	26.6935177	640.6444092	24	20403.41455
	14	497.3766	855.0302124	3.287798	15.08307	1.20240045	1.219689965	0.003013689	2.577413797	61.85793	7.751769066	7.862401962	0.031913009	27.2851658	654.8439941	24	20520.7251
	15	495.2808	851.4267578	3.262108	15.12857	1.10335338	1.127999663	0.002787134	2.374564886	56.98956	7.859243393	8.034615517	0.032612018	27.7693462	666.4642944	24	20434.24219
	16	501.5466	862.1995239	3.26179	15.12912	1.16853762	1.193780065	0.002949666	2.546810865	61.12346	8.139532089	8.32220459	0.033779331	29.122467	698.939209	24	20692.78857
	17	507.0627	871.6828003	3.25187	15.14667	1.34151125	1.374852061	0.00339707	2.962806702	71.10736	7.934601784	8.136559486	0.033025783	28.7889156	690.934021	24	20920.38721
	18	509.0087	875.0264893	3.2457	15.15763	1.4413538	1.48060286	0.00365837	3.202598333	76.86236	7.867667675	8.083734512	0.032811385	28.7107716	689.0584717	24	21000.63574
	19	507.5746	872.5612793	3.251741	15.14693	1.46138501	1.498567939	0.003702755	3.232199192	77.57278	7.824743748	8.024553299	0.03257117	28.4203129	682.0875244	24	20941.4707
	20	507.3955	872.2542725	3.24888	15.15199	1.54866755	1.589164615	0.003926611	3.427401543	82.25764	7.68737936	7.890295029	0.03202622	27.9357452	670.4578857	24	20934.10254
	21	496.3464	853.2593384	3.287418	15.08374	2.01560617	2.04282546	0.005047542	4.267856121	102.4286	7.504704475	7.613345623	0.030902095	26.3807125	633.137085	24	20478.22412
	22	497.3018	854.9026489	3.257338	15.13702	1.40001667	1.433099985	0.003540996	3.029090881	72.69818	7.546201229	7.72604084	0.031359535	26.8104839	643.4515991	24	20517.66357
	23	498.676	857.2639771	3.281758	15.09376	1.48348498	1.50678587	0.003723063	3.195785284	76.69885	7.513291836	7.634640694	0.030988546	26.5659885	637.5836792	24	20574.33545
	24	499.192	858.1520996	3.284875	15.08823	1.44866872	1.470619202	0.003633699	3.119117022	74.85881	7.547367573	7.66201973	0.031099662	26.6879158	640.5100098	24	20595.65039
	25	499.9838	859.512207	3.288944	15.08104	1.59016252	1.61164999	0.003982166	3.424966574	82.1992	7.499936104	7.604584217	0.03086653	26.5297413	636.7138062	24	20628.29297
	26	498.1892	856.4282837	3.273809	15.10784	1.58968628	1.618433714	0.003998926	3.426389933	82.23336	7.413448334	7.551814556	0.030652359	26.2538376	630.0921021	24	20554.27881
	27	493.0304	847.5588989	3.272918	15.10941	1.90082002	1.935884118	0.004783308	4.00363493	96.08724	7.760671616	7.907551765	0.032096259	27.2223587	653.3366089	24	20341.41357
	28	500.0186	859.5735474	3.289137	15.0807	1.24023879	1.257314563	0.003106654	2.67006135	64.08147	7.881817341	7.991514683	0.032437075	27.8832169	669.1972046	24	20629.76514
	29	500.6759	860.7023926	3.296512	15.06764	1.30542254	1.320188284	0.003262003	2.811851978	67.48445	7.787858963	7.8781147	0.031976774	27.5264702	660.6353149	24	20656.85742
	30	497.1868	854.7044678	3.281568	15.0941	1.22561157	1.244511604	0.003075019	2.633930922	63.21434	7.642864227	7.767013073	0.031525835	26.9442997	646.663208	24	20512.90723
	31	492.4625	846.5813599	3.262426	15.12801	1.05947352	1.083028316	0.002676012	2.268143654	54.43545	7.599937916	7.768631458	0.031532388	26.6948967	640.6774902	24	20317.95264
Apr 03	1	497.4864	855.2191162	3.286082	15.08612	1.34103549	1.360297203	0.003361108	2.863503695	68.72409	7.705028057	7.819892406	0.031740464	27.1576958	651.784729	24	20525.25879
	2	487.9649	838.8502808	3.295557	15.06933	2.15249324	2.174777746	0.005373578	4.475996017	107.4239	7.513608932	7.604342937	0.030865571	25.9137955	621.9310913	24	20132.40674
	3	478.5963	822.7455444	3.297212	15.06643	2.49128747	2.510354757	0.006202742	5.055931091	121.3424	7.575771809	7.665498257	0.031113779	25.6292801	615.1027222	24	19745.89307
	4	482.7119	829.8202515	3.298038	15.06494	2.23230171	2.253335476	0.005567681	4.556735992	109.3617	7.610908508	7.697318554	0.031242933	25.9523335	622.8560181	24	19915.68604
	5	513.3679	882.5214844	3.294478	15.07124	1.51464546	1.532499194	0.003786597	3.341257811	80.19019	7.855905056	7.952409744	0.032278359	28.4859009	683.6616211	24	21180.51563
	6	466	835.921936	3.287611	15.08341	2.49326468	2.524014711	0.006236491	5.155009747	118.5652	7.398504734	7.505001545	0.030462347	25.495266	586.3911133	24	20062.12646
	7	491.3929	844.7442017	3.297784	15.0654	1.8936646	1.916412473	0.004735194	3.974531651	95.38876	7.357644081	7.439871311	0.030197987	25.5185871	612.446106	24	20273.86084
	8	497.2988	854.8980713	3.29206	15.07553	1.36472249	1.381365418	0.003413165	2.923307419	70.15938	7.494849205	7.592720509	0.030818384	26.3430786	632.2338867	24	20517.55371
	9	495.7639	852.2580566	3.293968	15.07215	1.25105012	1.266253114	0.00312874	2.672019958	64.12848	7.55605793	7.650597572	0.031053308	26.4654675	635.1712036	24	20454.19336
	10	497.1458	854.6334839	3.315845	15.03344	1.30542171	1.312764525	0.003243659	2.773293257	66.55904	7.422035217	7.464497566	0.030297929	25.8929749	621.4313965	24	20511.20361
	11	497.7121	855.6064453	3.311455	15.0412	1.32291079	1.332287908	0.0032919	2.817992449	67.63182	7.345402718	7.397332191	0.030025346	25.6893711	616.5449219	24	20534.55469
	12	498.3358	856.6784668	3.198323	15.24136	1.05216062	1.073539376	0.002652567	2.278470039	54.68328	7.4489007	7.777049065	0.031566568	27.0369453	648.8867188	24	20560.2832
	13	497.3182	854.9312744	3.320487	15.02522	1.05931521	1.064332962	0.002629817	2.250094175	54.00226	7.525533199	7.559515476	0.030683605	26.2353535	629.6484985	24	20518.35059
	14	485.8821	835.2703857	3.312028	15.04019	1.57935214	1.588772655	0.00392564	3.241154671	77.78771	7.528235912	7.581220627	0.030771721	25.7290382	617.4968872	24	20046.48926

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	15	488.223	839.2940063	3.2981	15.06483	1.74501407	1.763532162	0.004357445	3.620248795	86.88597	7.526010513	7.610460758	0.030890405	25.9495297	622.7886963	24	20143.05615
	16	501.6423	862.3648071	3.273808	15.10785	1.30144703	1.32521379	0.003274422	2.818089485	67.63415	7.771639824	7.916796684	0.032133784	27.7166004	665.1984253	24	20696.75537
	17	503.204	865.0473633	3.293077	15.07372	1.31146288	1.327866673	0.003280975	2.838581324	68.12595	7.555580616	7.651402473	0.031056579	26.8660297	644.784729	24	20761.13672
	18	500.772	860.8677368	3.277052	15.10212	1.54326332	1.570240855	0.003879848	3.329288721	79.90293	7.546520233	7.680294514	0.031173849	26.8425617	644.2214966	24	20660.82568
	19	499.2503	858.2512817	3.279469	15.09782	1.25136828	1.272079587	0.003143132	2.699375868	64.78502	7.623149872	7.752020359	0.031464983	27.0036297	648.0870972	24	20598.03076
	20	495.777	852.2816162	3.2857	15.08677	1.11909163	1.135620117	0.002805962	2.394434214	57.46642	7.63078022	7.74495697	0.031436302	26.7906551	642.975708	24	20454.75879
	21	496.8383	854.1046143	3.277243	15.10175	1.27314937	1.295654655	0.003201387	2.718486786	65.24368	7.612020969	7.745768547	0.031439599	26.8625202	644.7005005	24	20498.51074
	22	485.3759	834.4013062	3.262426	15.128	2.24995208	2.303781748	0.005692329	4.693768501	112.6504	7.450172424	7.614383221	0.030906316	25.8189869	619.6557007	24	20025.63135
	23	501.5412	862.1900024	3.280296	15.09634	1.35407043	1.37616837	0.003400323	2.933565378	70.40557	7.569729805	7.695567131	0.031235829	26.9302158	646.3251953	24	20692.56006
	24	501.8846	862.7805176	3.297403	15.06606	1.40192497	1.417899132	0.00350343	3.024862528	72.5967	7.492782116	7.577920914	0.030758305	26.5384121	636.921875	24	20706.73242
	25	502.3627	863.602356	3.284174	15.08949	1.28141618	1.300628185	0.003213675	2.777208805	66.65301	7.610272408	7.728289127	0.031368658	27.0879593	650.1110229	24	20726.45654
	26	506.0161	869.8833618	3.283412	15.09083	1.41671121	1.438402534	0.003554094	3.093453646	74.24289	7.650176048	7.770296097	0.031539142	27.4328003	658.387207	24	20877.20068
	27	502.6927	864.1688232	3.283029	15.09149	1.38682163	1.408862114	0.003481107	3.011066675	72.2656	7.711227894	7.832817554	0.031792924	27.4738541	659.3724976	24	20740.05176
	28	499.8553	859.2903442	3.261931	15.12887	1.34127474	1.370079517	0.003385279	2.913042545	66.99998	7.5813241	7.751151562	0.031461462	27.0816956	622.8790283	24	20622.96826
	29	497.3434	854.9736938	3.26516	15.12315	1.64167416	1.675444961	0.004139793	3.509725332	84.23341	7.611543655	7.774570942	0.031556513	26.9990921	647.9782104	24	20519.36865
	30	497.4392	855.1389771	3.275589	15.10468	1.5574137	1.584192395	0.003914322	3.329212904	79.90111	7.516311169	7.652751923	0.031062054	26.5744743	637.7874146	24	20523.33545
May 03	1	498.4587	856.8911133	3.286909	15.08463	1.27394378	1.292394161	0.003193328	2.733306646	65.59936	7.5981884	7.709095955	0.031290736	26.8151341	643.5632324	24	20565.38672
	2	462.9779	795.8967285	3.064078	14.17262	2.14152169	4.974232197	0.012290628	3.81960535	91.67053	7.220442295	7.718318939	0.031328186	25.2326164	605.5828247	24	19101.52148
	3															0	0
	4	475.6873	817.7444458	3.127352	14.49835	1.90622604	2.795660973	0.006907695	3.992246628	95.81392	7.612975597	8.118452072	0.032952286	26.8369122	644.0858765	23.03889	18839.92346
	5	493.3983	848.1917725	3.30853	15.04638	1.36578202	1.375914931	0.003399699	2.864976645	68.75944	7.876253128	7.939378738	0.032225445	27.3440094	656.2562256	24	20356.60254
	6	497.9925	856.0882568	3.310247	15.04334	1.09890127	1.106953263	0.002735129	2.342541695	56.221	8.088656425	8.148853302	0.03307569	28.3150501	679.5612183	24	20546.11816
	7	499.684	858.9974365	3.31807	15.0295	1.08920169	1.094471693	0.002704287	2.323837519	55.7721	8.087703705	8.128534317	0.032993227	28.3420868	680.210083	24	20615.93848
	8	481.8269	828.2995605	3.332569	15.00385	1.48793554	1.488129497	0.003676962	2.994585037	71.87004	8.016953468	8.022172928	0.032561492	27.0165958	648.3983154	24	19879.18945
	9	480.2555	825.5981445	3.316608	15.03211	1.65105355	1.651407242	0.004080402	3.303954601	79.29491	7.942550659	7.990702629	0.032433767	26.8298531	643.9165039	24	19814.35547
	10	499.8326	859.2523804	3.284047	15.08972	1.21845794	1.236792922	0.003055947	2.627378225	63.05708	7.975778103	8.099762917	0.032876447	28.2494717	677.9873047	24	20622.05713
	11	495.4748	851.7620239	3.301981	15.05796	1.14373374	1.154976249	0.002853786	2.43324542	58.39789	7.852246761	7.930401325	0.032189008	27.4188042	658.0513306	24	20442.28857
	12	488.4257	839.6434937	3.313491	15.0376	0.98077613	0.986707091	0.002438017	2.049570799	49.1897	7.846205235	7.896901608	0.032053057	26.9133663	645.9207764	24	20151.44385
	13	486.2719	835.9408569	3.319088	15.0277	0.95979053	0.964472353	0.002383077	1.993466258	47.84319	7.792786121	7.829765797	0.031780537	26.5658627	637.5806885	24	20062.58057
	14	491.1926	844.399353	3.310311	15.04323	0.92306447	0.929731667	0.002297239	1.940672159	46.57613	7.879751682	7.938951492	0.03222372	27.2108994	653.0615845	24	20265.58447
	15	489.3024	841.1502075	3.32939	15.00947	1.05295563	1.054172158	0.002604716	2.189485312	52.54765	7.575452805	7.588062286	0.030799491	25.9102459	621.8458862	24	20187.60498
	16	490.0795	842.4866943	3.317561	15.0304	1.05867779	1.063981175	0.002628949	2.216296673	53.19112	7.651290417	7.691297054	0.031218508	26.3016911	631.2406006	24	20219.68066
	17	486.8707	836.97052	3.284747	15.08847	0.96964628	0.984144688	0.002431685	2.03599453	48.86387	7.632530689	7.749155998	0.031453338	26.3255367	631.8129272	24	20087.29248
	18	492.9366	847.3983765	3.280422	15.09612	1.05772352	1.075077653	0.002656372	2.251895905	54.0455	7.811706066	7.941156864	0.032232683	27.3142242	655.5413818	24	20337.56104
	19	490.4371	843.100708	3.28958	15.0799	1.03848743	1.052601099	0.002600832	2.196035862	52.70486	7.708683968	7.81480217	0.031719811	26.7488785	641.9730835	24	20234.41699
	20	484.6127	833.0884399	3.285065	15.0879	0.92719775	0.940927684	0.002324904	1.939050436	46.53721	7.529507637	7.643686771	0.031025259	25.845459	620.2910156	24	19994.12256
	21	480.6129	826.2121582	3.286591	15.0852	0.8337149	0.845455945	0.002089006	1.728417873	41.48203	7.555580139	7.666738987	0.031118818	25.7093163	617.0236206	24	19829.0918
	22	476.7169	819.5153198	3.283729	15.09028	0.78681457	0.798756957	0.001973621	1.619250774	38.86202	7.49023819	7.607152462	0.030876972	25.3029881	607.2717285	24	19668.36768
	23	474.5602	815.8078613	3.28996	15.07924	0.73132896	0.74107796	0.001831102	1.494729996	35.87352	7.575455666	7.679330349	0.031169938	25.4264832	610.2355957	24	19579.38867
	24	478.7257	822.9676514	3.29594	15.06865	0.7159074	0.724408388	0.001789914	1.474263787	35.38233	7.695646763	7.78653574	0.031605083	26.0100632	624.2415161	24	19751.22363
	25	485.0055	833.7637329	3.322965	15.02084	0.79460472	0.797458053	0.00197041	1.644272923	39.46255	7.745091438	7.772600174	0.031548511	26.3014908	631.2357788	24	20010.32959
	26	482.3523	829.2015991	3.339374	14.99181	0.88252306	0.8810094	0.002176853	1.806380391	43.35313	7.446199417	7.436210632	0.030183125	25.0263538	600.6325073	24	19900.83838
	27	479.3268	824.0018311	3.326697	15.01424	0.86402845	0.86557281	0.002138712	1.765860438	42.38065	7.44556284	7.463668346	0.030294567	24.9679661	599.2312012	24	19776.04395
	28	468.9646	806.1876831	3.286718	15.085	0.69667023	0.70560658	0.001743457	1.407769203	33.78646	7.236975193	7.343545914	0.02980702	24.0295754	576.7097778	24	19348.50439
	29	471.2004	810.0318604	3.282205	15.09298	0.64643127	0.656139195	0.001621229	1.314304948	31.54332	7.59500885	7.717414379	0.03132451	25.377409	609.0578003	24	19440.76465
	30	480.8353	826.5947266	3.329199	15.00981	0.81654459	0.817636013	0.002020267	1.671937466	40.1265	7.607568264	7.62063694	0.030931691	25.5704384	613.6904907	24	19838.27344
	31	476.5359	819.2035522	3.325256	15.01679	0.78888148	0.790767491	0.001953876	1.60299921	38.47198	7.478952885	7.500844479	0.030445471	24.938942	598.5346069	24	19660.88525
Jun 03	1	473.0031	813.1300049	3.323858	15.01926	0.74468362	0.746531367	0.001844574	1.502300024	36.0552	7.531257153	7.556394577	0.030670937	24.937458	598.4990234	24	19515.12012
	2	469.9197	807.8311768	3.305352	15.052	0.71495348	0.720862329	0.001781151	1.440671206	34.57611	7.44572258	7.512169361	0.030491428	24.6313953	591.1535034	24	19387.94824
	3	468.0961	804.6952515	3.298865	15.06349	0.65930915	0.665882111	0.001645303	1.325444698	31.81067	7.390396595	7.471386433	0.030325908	24.4016781	585.6403198	24	19312.68604
	4	473.2331	813.5267334	3.315527	15.034	0.70748115	0.711431682	0.001757852	1.430853367	34.34048	7.387851715	7.430802345	0.030161167	24.5368824	588.8851929	24	19524.6416
	5	470.8979	809.5125122	3.333651	15.00194	0.74563748	0.74569875	0.001842519	1.492472887	35.81935	7.241586208	7.244318008	0.029404238	23.8040123	571.2963257	24	19428.30029
	6	475.061	816.6674805	3.34389	14.98382	0.7888813	0.786731482	0.001943905	1.588529587	38.12471	7.270363331	7.250783443	0.029430479	24.037508	576.9002075	24	19600.01953

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	7	473.3325	813.6968384	3.344653	14.98248	0.78824526	0.785786271	0.001941568	1.58108747	37.9461	7.18975687	7.168622017	0.02909698	23.6772633	568.2543335	24	19528.72412
	8	470.6508	809.0874023	3.336259	14.99732	0.7691673	0.768523335	0.001898915	1.538019538	36.91247	7.140789509	7.13781023	0.028971937	23.4406834	562.576416	24	19418.09766
	9	474.3293	815.4110718	3.316798	15.03175	0.78347588	0.786997199	0.001944561	1.586460829	38.07506	7.314241886	7.355744839	0.029856505	24.3510494	584.4251709	24	19569.86572
	10	486.8075	836.8618774	3.288031	15.08265	0.92182148	0.934598744	0.002309268	1.932951331	42.52493	7.341269016	7.445281029	0.030219931	25.2793236	556.1450806	24	20084.68506
	11	488.7531	840.2056885	3.294477	15.07126	0.96726143	0.979307294	0.002419732	2.03531456	48.84755	7.341905117	7.432073593	0.030166341	25.3483582	608.3605957	24	20164.93652
	12	485.9944	835.4639893	3.06236	15.48194	0.70255286	0.729425848	0.001802312	1.512749195	36.30598	6.884984016	7.49148941	0.030407492	25.4086952	609.8087158	24	20051.13574
	13	485.3572	834.3682861	3.31063	15.04266	0.99142754	0.998494923	0.002467143	2.060197592	49.44474	7.338089466	7.391802788	0.030002879	25.0340042	600.8161011	24	20024.83887
	14	223.7911	659.4552002	2.664945	13.5739	9.98195076	36.62093735	0.090484917	11.39781761	159.5694	7.560396194	8.475148201	0.034400102	24.8030701	347.242981	12.84722	8472.167574
	15	488.1541	839.1760864	3.295558	15.06933	1.19683552	1.210474968	0.002990917	2.512063265	60.28952	7.749066353	7.84175396	0.031829201	26.7091293	641.019104	24	20140.22607
	16	483.4917	831.161499	3.28443	15.08902	1.13499093	1.151886702	0.002846157	2.369610786	56.87066	7.638836861	7.755981922	0.031481057	26.1688385	628.052124	24	19947.87598
	17	477.7448	821.2815552	3.293078	15.07371	1.0923835	1.105478287	0.002731485	2.246838808	53.92413	7.417741299	7.511965752	0.030490616	25.0411034	600.9865112	24	19710.75732
	18	480.1675	825.4470215	3.297785	15.06539	1.03387702	1.04451859	0.00258086	2.131205559	51.14893	7.56480217	7.651125431	0.03105545	25.6356831	615.2564087	24	19810.72852
	19	487.0273	837.2396851	3.301028	15.05966	1.00255632	1.012898088	0.002502731	2.096778631	50.32269	7.896921158	7.977637291	0.032380745	27.1096878	650.6325073	24	20093.75244
	20	491.8959	845.6083984	3.307705	15.04784	1.12815499	1.137248635	0.002809983	2.378480911	57.08354	7.897875309	7.962700844	0.032320127	27.332859	655.9885864	24	20294.60156
	21	492.0107	845.8068237	3.289708	15.0797	1.16599286	1.181984782	0.002920523	2.472261667	59.33428	7.865599155	7.973224163	0.032362826	27.3734741	656.9633789	24	20299.36377
	22	490.4914	843.1950684	3.301791	15.0583	1.18364036	1.195142865	0.002953034	2.491532803	59.79679	7.840322018	7.919448853	0.032144561	27.1048546	650.5164795	24	20236.68164
	23	491.5411	844.9992065	3.28621	15.08587	1.05820096	1.07344234	0.002652327	2.244395018	53.86548	8.06878376	8.188140869	0.033235159	28.0823288	673.9758911	24	20279.98096
	24	491.7747	845.4006958	3.305035	15.05257	0.99015594	0.998763025	0.002467807	2.087607622	50.10258	7.910117626	7.983767033	0.032405615	27.4103165	657.8475952	24	20289.6167
	25	483.055	830.4106445	3.301918	15.05808	1.00192058	1.010772228	0.002497477	2.07665205	49.83965	7.476724148	7.551485062	0.030651012	25.4523335	610.8560181	24	19929.85547
	26	475.5992	817.5931396	3.227769	15.18929	0.90986878	0.930991769	0.002300353	1.891139388	45.38734	7.282763958	7.522422314	0.030533049	24.9695034	599.2680664	24	19622.23535
	27	469.9037	807.8028564	3.219055	15.2047	1.01193655	1.033887386	0.002554593	2.003076315	48.07383	7.281651497	7.549731255	0.030643892	24.7918758	595.0050049	24	19387.26855
	28	475.6431	817.6686401	3.287227	15.08408	0.78554261	0.796486437	0.001968008	1.611512899	38.67631	7.512496948	7.621270657	0.030934274	25.2946625	607.0718994	24	19624.04736
	29	479.8159	824.8423462	3.296386	15.06787	0.84341264	0.852484822	0.002106372	1.738620877	41.7269	7.604389191	7.694320679	0.031230776	25.7577591	618.1862183	24	19796.21631
	30	484.2032	832.3846436	3.298675	15.06382	0.9068476	0.91547817	0.002262018	1.886078715	45.26589	7.665121078	7.750918865	0.031460509	26.1821137	628.3707275	24	19977.23145
Jul 03	1	486.5418	836.4037476	3.291425	15.07665	1.22020686	1.234660387	0.003050675	2.554275513	61.30261	7.659874439	7.762451172	0.031507324	26.3524666	632.4591675	24	20073.68994
	2	483.2061	830.6703491	3.303636	15.05504	1.21718621	1.227643013	0.003033337	2.528649092	60.68758	7.56750536	7.639294624	0.03100743	25.7521591	618.0518188	24	19936.08838
	3	483.2035	830.6656494	3.30567	15.05144	1.16456175	1.174060345	0.002900941	2.414002895	57.93607	7.506454468	7.572455406	0.030736126	25.5317783	612.7626953	24	19935.97559
	4	481.5299	827.7895508	3.310949	15.0421	0.91320694	0.919328749	0.002271535	1.8832196	45.19727	7.518856049	7.573272228	0.030739438	25.4439907	610.6558228	24	19866.94922
	5	480.5055	826.0278931	3.295496	15.06944	0.82004237	0.829547405	0.002049698	1.695082545	40.68198	7.596918106	7.687993526	0.031205099	25.7749176	618.5980225	24	19824.66943
	6	480.3871	825.8248901	3.299819	15.0618	0.77441365	0.782324553	0.001933016	1.597849607	38.34839	7.616312504	7.697246075	0.031242657	25.7999382	619.1984863	24	19819.79736
	7	481.5462	827.817749	3.305352	15.052	1.10017192	1.109386563	0.002741141	2.271337509	54.5121	7.260665417	7.326206207	0.029736638	24.6149178	590.7579956	24	19867.62598
	8	486.7194	836.7108154	3.29098	15.07743	1.31178129	1.328646183	0.003282903	2.752534628	66.06083	7.454942703	7.554206371	0.030662067	25.6532364	615.6776733	24	20081.05957
	9	480.9674	826.821228	3.297848	15.06528	1.26440418	1.278312445	0.003158531	2.615530729	62.77274	7.225211143	7.306856155	0.029658088	24.528141	588.675415	24	19843.70947
	10	477.5927	821.0217896	3.29734	15.06619	1.2677418	1.28052783	0.003164008	2.601736784	62.44168	7.092459679	7.174007893	0.029118858	23.9045296	573.7086792	24	19704.52295
	11	476.3077	818.8116455	3.299184	15.06291	1.04611874	1.057159781	0.002612096	2.145519257	51.49246	7.165591717	7.242948055	0.029398674	24.0722046	577.7329102	24	19651.47949
	12	474.8571	816.3179321	3.291934	15.07575	0.92783445	0.939439952	0.002321227	1.896766305	45.52239	7.145718575	7.239175797	0.02938338	23.9839535	575.6149292	24	19591.63037
	13	476.4533	819.0617676	3.308468	15.04649	0.98888403	0.996098161	0.002461221	2.017888308	48.42932	7.131411076	7.188521385	0.029177766	23.8970127	573.5283203	24	19657.48242
	14	473.7364	814.3910522	3.30319	15.05583	0.93339825	0.942208767	0.002328067	1.899742961	45.59383	7.181489944	7.250263691	0.029428367	23.9672051	575.2128906	24	19545.38525
	15	469.2168	806.6220703	3.311203	15.04165	0.79174304	0.797222614	0.001969828	1.590822101	38.17973	7.11789608	7.168889046	0.029098084	23.470705	563.296875	24	19358.92969
	16	470.9729	809.6400146	3.329263	15.0097	0.84023327	0.841359437	0.002078882	1.684743285	40.43384	7.186259747	7.198252201	0.029217258	23.6550369	567.7208862	24	19431.36035
	17	470.9286	809.5645142	3.351585	14.97021	0.79333276	0.792157352	0.001957312	1.581898332	37.96556	7.472272396	7.427231312	0.030146671	24.4214916	586.1157837	24	19429.54834
	18	471.3104	810.2208252	3.338294	14.99372	0.79412806	0.795169055	0.001964754	1.587586045	38.10207	7.387056828	7.371816635	0.029921742	24.270462	582.4910889	24	19445.2998
	19	471.4201	810.4098511	3.305671	15.05145	0.86121923	0.868451774	0.002145825	1.739879966	41.75712	7.199296474	7.263642311	0.029482679	23.8930378	573.4329224	24	19449.83643
	20	470.3517	808.5725708	3.308596	15.04628	0.81145698	0.817210138	0.002019214	1.634995818	39.2399	7.143333435	7.199884415	0.029223887	23.6323586	567.1765747	24	19405.7417
	21	470.1672	808.2563477	3.306971	15.04914	0.75919467	0.766551495	0.001894043	1.529776454	33.65508	7.251370907	7.309361935	0.029668255	23.9916554	527.8164063	24	19398.15234
	22	430.9507	740.7631836	3.060707	14.17905	0.84373105	1.150182486	0.002841941	1.595783591	38.29881	6.890233994	7.15474081	0.029040663	22.4867153	539.6811523	24	17778.31641
	23	468.8824	806.0459595	3.329073	15.01004	0.7521559	0.753905237	0.001862795	1.499941587	35.9986	7.188486099	7.197683811	0.029214963	23.5619125	565.4859009	24	19345.10303
	24	470.1672	808.2561035	3.337722	14.99474	0.66980195	0.671070635	0.001658123	1.339305758	32.14334	7.357327461	7.34390974	0.029808478	24.1035576	578.4854126	24	19398.14648
	25	473.5692	814.1029053	3.350949	14.97134	0.58617598	0.585366488	0.00144636	1.176044345	28.22507	7.655900955	7.610261917	0.030889601	25.1602993	603.847168	24	19538.46973
	26	205.0139	650.5973511	2.707454	12.49461	3.78979993	5.058949471	0.012500006	6.994190693	90.92448	6.252641678	6.763312817	0.027451871	20.3156548	264.1035156	12.74167	8289.694662
	27	472.8296	812.8326416	3.34478	14.98225	0.8858617	0.882197082	0.002179787	1.772670865	42.5441	7.152555466	7.132528782	0.028950505	23.5307865	564.7388916	24	19507.9834
	28	472.2806	811.8879395	3.329751	15.00884	0.83228397	0.833171666	0.002058652	1.672308326	40.1354	7.150913239	7.16189146	0.029069679	23.600729	566.4174805	24	19485.31055
	29	471.8686	811.1795654	3.339375	14.99181	0.89905745	0.898477554	0.002220015	1.800248265	43.20596	7.226323128	7.214160442	0.029281834	23.7593994	570.2255859	24	19468.30957

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	30	475.7666	817.8811035	3.368692	14.93995	1.07839203	1.069728732	0.002643149	2.158058882	51.79342	7.199932098	7.1224823	0.028909709	23.6598492	567.8364258	24	19629.14648
	31	477.1346	820.2330322	3.357308	14.96009	1.11273289	1.106221914	0.002733323	2.24030304	53.76727	7.150327682	7.100395679	0.028820058	23.6489296	567.5742798	24	19685.59277
Aug 03	1	477.4752	820.8187256	3.375114	14.92859	1.18300319	1.17098248	0.002893337	2.372563601	56.94153	7.116466045	7.02682209	0.028521447	23.4219551	562.1268921	24	19699.64941
	2	478.2003	822.0655518	3.339057	14.99238	1.1734637	1.172183752	0.002896303	2.382737398	57.1857	7.021391869	7.013200283	0.028466154	23.4036408	561.6873779	23.99167	19722.7228
	3	477.5717	820.9840698	3.359408	14.95638	1.13689792	1.128359199	0.00278802	2.28994751	54.95874	7.032521248	6.981154442	0.028336074	23.2634087	558.3217773	23.99722	19701.33772
	4	472.1923	811.7368774	3.311839	15.04054	1.23149395	1.74153924	0.004303101	2.403941631	57.6946	7.680066586	8.157151222	0.033109371	25.2629414	606.3106079	24	19481.68506
	5	390.3657	700.246582	2.838496	12.92567	1.38921881	3.741481304	0.009244686	2.849562168	65.53993	6.365962029	6.806291103	0.027626326	21.2558079	488.883606	21.76944	15243.97841
	6	481.0577	826.9771729	3.35966	14.95592	0.95629251	0.949128091	0.002345164	1.941159606	46.58783	7.223938942	7.170513153	0.02910468	24.068737	577.6497192	24	19847.45215
	7	480.6598	826.2922363	3.356609	14.96132	0.95279455	0.946422815	0.002338479	1.934455395	46.42693	7.25827837	7.211188316	0.02926977	24.1850128	580.4403076	24	19831.01367
	8	480.3105	825.6925049	3.351331	14.97066	1.21607244	1.209730387	0.002989079	2.468029261	59.2327	7.301682949	7.265734196	0.029491162	24.3512173	584.4291992	24	19816.62012
	9	151.1356	623.4522095	2.635226	12.58202	10.672822	23.41352844	0.057851683	11.79847908	117.9848	6.809494019	7.305756092	0.029653626	21.2533379	212.5333862	9.358333	5834.473158
	10	476.5716	819.2648926	3.35292	14.96785	1.39540756	1.387503386	0.003428331	2.810369968	67.44888	7.259551048	7.220417023	0.029307226	24.0111084	576.2666016	24	19662.35742
	11	481.599	827.9074707	3.328882	15.01038	1.74628663	1.74906373	0.004321694	3.579986572	85.91968	7.281809807	7.295568943	0.029612275	24.5163879	588.3933105	24	19869.7793
	12	479.9093	825.0031738	3.337403	14.9953	1.29524732	1.297317624	0.003205493	2.647605419	63.54253	7.602958202	7.593967438	0.030823441	25.4322338	610.3735962	24	19800.07617
	13	479.0271	823.4869995	3.350758	14.97167	1.27139914	1.26506412	0.003125798	2.575778008	61.81867	7.423624039	7.388398647	0.029989051	24.6947422	592.6738281	24	19763.68799
	14	476.764	819.59552	3.346052	14.98	1.3133713	1.308698773	0.003233612	2.652206659	63.65296	7.363209724	7.338594913	0.0297869	24.4125252	585.9006348	24	19670.29248
	15	479.0247	823.4822998	3.345862	14.98034	1.29556537	1.290812135	0.003189417	2.62727952	63.05471	7.439681053	7.415712357	0.030099921	24.7864456	594.8746948	24	19763.5752
	16	476.6126	819.3356934	3.317054	15.0313	1.14802682	1.154460788	0.002852514	2.339324236	56.14378	7.462416172	7.502706051	0.030453037	24.9523544	598.8565063	24	19664.05664
	17	475.5438	817.4986572	3.331172	15.00632	1.06265307	1.063498259	0.002627759	2.150182486	51.60438	7.511859894	7.520363331	0.030524701	24.9516411	598.8394165	24	19619.96777
	18	473.9015	814.6745605	3.328062	15.01183	1.03802478	1.040046453	0.002569811	2.093622208	46.05969	7.591193676	7.606259346	0.030873345	25.134882	552.9674072	24	19552.18945
	19	472.7286	812.6578369	3.322522	15.02162	1.06010914	1.063963294	0.002628906	2.137381315	51.29715	7.434275627	7.46171236	0.030286629	24.613245	590.7178955	24	19503.78809
	20	475.1233	816.776123	3.355337	14.96358	0.86217409	0.862577856	0.002131312	1.742191911	41.81261	8.007257462	7.94854641	0.032262668	26.3542633	632.5023193	24	19602.62695
	21	475.1156	816.7619019	3.365258	14.94602	0.8457973	0.841919005	0.002080266	1.696311235	40.71147	7.964807987	7.88525486	0.032005757	26.1516991	627.6408081	24	19602.28565
	22	473.2722	813.5929565	3.32621	15.0151	1.21098518	1.213981986	0.002999583	2.441604137	58.5985	7.078309536	7.0969944	0.028806278	23.4388332	562.5319824	24	19526.23096
	23	474.1734	815.1420288	3.318707	15.02837	1.32688463	1.333390832	0.003294625	2.687322855	64.49575	6.991981506	7.026037216	0.028518271	23.2491589	557.9797974	24	19563.40869
	24	470.176	808.2703857	3.330981	15.00666	1.42148089	1.42303288	0.003516117	2.843789577	68.25095	6.891820908	6.899852753	0.028006092	22.6365871	543.2780762	24	19398.48926
	25	469.7805	807.5903931	3.353831	14.96624	1.21813941	1.215535045	0.003003419	2.419703722	58.07289	7.337878227	7.288237572	0.029582504	23.9116211	573.8789063	24	19382.16943
	26	471.4587	810.4758911	3.36354	14.94906	1.19301951	1.18929553	0.002938585	2.372244596	56.93387	7.655105591	7.578808784	0.030761916	24.9589882	599.015686	24	19451.42139
	27	471.9368	811.2976685	3.330345	15.00779	1.93992877	1.942324638	0.004799213	3.894891739	93.4774	6.988165855	6.997514725	0.028402487	23.0428124	553.0275269	24	19471.14404
	28	476.6323	819.3687134	3.322396	15.02185	1.89048505	1.896994591	0.004687212	3.843656301	92.24775	7.197865486	7.225038528	0.029325979	24.026741	576.6417847	24	19664.84912
	29	479.5137	824.322937	3.321505	15.02343	1.94756079	1.953746676	0.004827436	3.983185768	95.59646	7.200568676	7.2296381	0.029344654	24.1888886	580.5333252	24	19783.75049
	30	476.2058	818.6369019	3.318007	15.02961	1.85932422	1.86867547	0.004617242	3.783566713	90.8056	7.118691444	7.15479517	0.029040879	23.7776871	570.6644897	24	19647.28565
	31	472.2527	811.8408203	3.320806	15.02466	1.81305909	1.82094121	0.004499295	3.654852867	87.71647	7.028707027	7.058202267	0.028648809	23.2569962	558.1679077	24	19484.17969
Sep 03	01	470.0905	808.1240234	3.323539	15.01982	1.73038793	1.736122966	0.004289723	3.468848467	83.25236	7.091506004	7.115624428	0.028881876	23.3386784	560.1282959	24	19394.97656
	02	469.305	806.7733154	3.304475	15.05357	1.36807692	1.381771445	0.003414167	2.74852252	60.46749	7.419836044	7.484456539	0.030378954	24.5105324	539.2316895	24	19362.55957
	03	467.4096	803.5144653	3.33346	15.00228	1.43165565	1.44043684	0.003559121	2.853266478	68.47839	7.191982269	7.185222149	0.029164376	23.4507751	562.8186035	24	19284.34717
	04	469.3766	806.8959961	3.348087	14.9764	1.39810956	1.398069143	0.003454435	2.785938978	66.86253	7.208835125	7.173830509	0.029118134	23.5037422	564.0897827	24	19365.50391
	05	474.0933	815.0050049	3.345225	14.98146	1.5316571	1.532878876	0.003787531	3.081969261	73.96726	7.175130844	7.145837307	0.029004529	23.660387	567.8493042	24	19560.12012
	06	472.5108	812.284729	3.313938	15.03681	1.80606329	1.817154527	0.004489935	3.649125099	87.579	6.765427589	6.808013916	0.027633304	22.4478836	538.7492065	24	19494.8335
	07	474.2166	815.2175293	3.33467	15.00014	1.44930291	1.448847055	0.003579901	2.921097994	70.10635	6.948896408	6.949000359	0.028205562	22.9957294	551.897522	24	19565.2207
	08	478.7748	823.0526123	3.327419	15.01297	1.37696588	1.378235459	0.003405428	2.806372166	67.35293	7.158755302	7.174532413	0.029120987	23.9695835	575.2700195	24	19753.2627
	09	482.5413	829.5275269	3.325384	15.01656	1.36901498	1.372741699	0.003391854	2.81440258	67.54566	7.373383522	7.394495964	0.030013809	24.8973923	597.5374146	24	19908.66064
	10	478.0413	821.7915649	3.34548	14.98101	1.43213379	1.426953316	0.003525804	2.899123669	69.57897	6.904062271	6.881586552	0.027931942	22.9573879	550.9772949	23.93889	19672.77668
	11	472.7092	812.6247559	3.330027	15.00835	1.49191129	1.493465781	0.003690149	3.000404596	72.00971	6.790706635	6.800866127	0.027604308	22.4310951	538.3463135	24	19502.99414
	12	471.4589	810.4759521	3.32284	15.02106	1.303514	1.307582259	0.003230856	2.62123704	62.90969	7.058913231	7.084915161	0.028757233	23.3051167	559.3228149	24	19451.42285
	13	195.4477	620.2904053	2.571968	13.1379	4.32516289	38.10274887	0.094146781	4.553461552	59.195	6.504769325	9.080949783	0.036859032	21.0281982	273.3665771	12.44722	7720.892228
	14	473.5415	814.0556641	3.342745	14.98585	1.15136683	1.148011923	0.002836579	2.311798334	55.48316	7.461302757	7.443825722	0.030214021	24.5953255	590.2877808	24	19537.33594
	15	475.7337	817.8244019	3.334054	15.00123	1.17372882	1.173539042	0.002899655	2.372850895	56.94842	7.656853199	7.659168243	0.031088101	25.4233742	610.1610107	24	19627.78564
	16	467.2719	803.250061	3.249326	14.71651	1.6184603	1.589962602	0.003928579	2.852274179	68.45458	8.038257599	8.233496666	0.03341927	26.4991741	635.9802246	24	19278.00146
	17	333.5904	724.3825073	2.946066	13.48768	3.6282618	10.0670681	0.024874348	4.723976612	89.75556	7.457346916	7.692715645	0.031224253	24.6967258	469.237793	18.05833	13081.14013
	18	482.4061	829.2960815	3.35699	14.96065	1.06519628	1.057085037	0.00261191	2.168128729	52.03509	7.843977928	7.791383743	0.031624749	26.2292461	629.5018921	24	19903.10596
	19	479.3157	823.9828491	3.327927	15.01207	1.01718342	1.018357515	0.00251622	2.074913263	49.79792	7.755424023	7.771225929	0.031542938	25.9918213	623.8037109	24	19775.58838
	20	478.588	822.7315674	3.31311	15.03828	1.01352632	1.019767761	0.002519705	2.074622154	49.79093	7.772753239	7.823637486	0.031755671	26.1276455	627.0634766	24	19745.55762

Unit 4 - CEMS Data

Month/Year	Day	Daily Fuel Gas in tons/day	fuel gas heat rate (mmbtu/hr) – lower heating value	Average CO2 conc. (%)	Average O2 conc. (%)	Average CO conc. uncorrected (ppm)	Average CO conc. corrected (ppm)	Average CO emission factor (lb/mmbtu)	Average CO mass emission rate (lb/hr)	CO mass emissions rate (lb/day)	Average NOx conc. uncorrected (ppm)	Average NOx conc. corrected (ppm)	Average NOx emission factor (lb/mmbtu)	Average NOx mass emission rate (lb/hr)	Daily NOx mass emissions rate (lb/day)	Daily turbine run time (hr/day)	Fuel Gas (MMBtu/day)
	21	473.8464	814.5800171	3.325767	15.01589	0.92497224	0.926843107	0.002290101	1.867486238	44.81967	7.764010906	7.784997463	0.031598821	25.7413998	617.7935791	24	19549.92041
	22	472.7826	812.7521973	3.315147	15.03467	0.8755281	0.880590975	0.00217582	1.770026088	42.48063	7.890084743	7.936120987	0.032212228	26.1858578	628.4605713	24	19506.05273
	23	474.7717	816.1715698	3.323477	15.01994	0.89079046	0.895252764	0.002212046	1.803880334	43.29313	8.146050453	8.169644356	0.03316009	27.0759239	649.8222046	24	19588.11768
	24	477.9835	821.6925049	3.325129	15.01701	1.29651916	1.299851298	0.003211755	2.641120911	63.3869	7.552721024	7.574591637	0.0307448	25.2645874	606.3500977	24	19720.62012
	25	481.1564	827.1472778	3.337277	14.99553	1.49636209	1.494181275	0.003691917	3.055812359	73.3395	7.428233147	7.422054768	0.030125676	24.919529	598.0687256	24	19851.53467
	26	480.4891	825.9996948	3.331363	15.00599	1.50653684	1.508615136	0.003727578	3.079839706	73.91615	7.528553963	7.534081459	0.030580375	25.2661705	606.3881226	24	19823.99268
	27	476.6978	819.4821167	3.333459	15.00228	1.49365914	1.49407959	0.003691666	3.029094934	72.69828	7.322350025	7.325212002	0.029732592	24.3686371	584.84729	24	19667.5708
	28	472.2775	811.8833008	3.341156	14.98866	1.24246502	1.240295768	0.0030646	2.494822979	59.87575	7.38006115	7.365764618	0.0298972	24.275629	582.6151123	24	19485.19922
	29	475.0276	816.6107178	3.358028	14.95881	1.00621331	0.998810828	0.002467923	2.015855312	48.38053	7.708682537	7.655288219	0.03107235	25.374279	608.9827271	24	19598.65723
	30	476.7476	819.5671997	3.360297	14.9548	1.19747174	1.187609792	0.002934421	2.407176733	57.77224	7.619493484	7.560814381	0.030688874	25.1551456	603.7235107	24	19669.61279
Oct 03	1	478.3651	822.348938	3.358262	14.9584	1.24373579	1.234487057	0.003050245	2.509871721	60.23692	7.654151917	7.600697041	0.030850772	25.3706799	608.8963013	24	19736.37451
	2	480.7202	826.3963013	3.362395	14.95109	1.14150834	1.131550908	0.002795908	2.312252998	55.49407	7.962264061	7.896974087	0.032053337	26.4889088	635.7338257	24	19833.51123
	3	480.132	825.3856201	3.367483	14.94209	1.08157218	1.070577383	0.002645249	2.18564868	52.45557	7.940005302	7.862533569	0.03191353	26.3470135	632.3283081	24	19809.25488
	4	476.2696	818.7454224	3.359788	14.9557	1.02513242	1.016884208	0.002512583	2.060054064	49.4413	7.668458939	7.611020088	0.030892663	25.2983074	607.1594238	24	19649.89014
	5	476.6835	819.4585571	3.375432	14.92803	1.70542622	1.683756471	0.00416033	3.411201239	81.86883	7.762261868	7.668614388	0.031126454	25.5073376	612.1760864	24	19667.00537
	6	475.1402	816.8043823	3.346879	14.97854	1.76552415	1.75742662	0.00434236	3.549710512	85.19305	7.743978024	7.715625763	0.03131726	25.5810204	613.944519	24	19603.30518
	7	473.6021	814.1596069	3.341727	14.98765	1.65789163	1.653889537	0.004086535	3.329749584	79.91399	7.774820805	7.758806705	0.03149252	25.6405506	615.3731689	24	19539.83057
	8	474.3356	815.4205933	3.355146	14.96391	1.69207251	1.680262089	0.004151694	3.388082981	81.31399	7.804709435	7.756079674	0.031481467	25.6736755	616.1682129	24	19570.09424
	9	477.6428	821.1068115	3.363731	14.94872	1.69636583	1.680977464	0.004153464	3.412744045	81.90586	7.961150169	7.892224789	0.032034058	26.3060589	631.3453979	24	19706.56348
	10	487.352	837.796936	3.341793	14.98754	2.04374623	2.038938284	0.005037937	4.222818375	101.3476	8.249707222	8.232889175	0.033416796	27.9977284	671.9454956	24	20107.12646
	11	486.6865	836.6540527	3.34637	14.97944	2.05741882	2.050781727	0.0050672	4.24212265	101.8109	8.151931763	8.125050545	0.032979086	27.5977879	662.3469238	24	20079.69726
	12	484.178	832.3421631	3.348723	14.97528	2.10463738	2.095322847	0.005177256	4.312353134	103.4965	8.069895744	8.036891937	0.032621242	27.1510296	651.6246948	24	19976.21191
	13	486.558	836.4320679	3.337403	14.9953	2.17538452	2.173515081	0.005370455	4.493988991	107.8557	8.268625259	8.262132645	0.033535492	28.0499668	673.1992188	24	20074.36963
	14	486.3211	836.0259399	3.28403	15.08975	2.56742048	2.60946393	0.006447624	5.388858318	123.9437	8.209242821	8.335990906	0.033835277	28.2763252	650.3554688	24	20064.62256
	15	483.5963	831.3410034	3.290216	15.07881	2.8594954	2.899171352	0.007163452	5.95793581	142.9905	8.132059097	8.244304657	0.03346312	27.8220825	667.7299805	24	19952.18408
	16	488.6919	840.1017456	3.31362	15.03738	3.43963075	3.460827589	0.008551229	7.18687439	172.485	8.058448792	8.109890938	0.032917552	27.6539955	663.6959229	24	20162.44189
	17	485.5853	834.7601318	3.304653	15.05324	3.49098301	3.522771358	0.008704283	7.268764496	174.4503	7.910752773	7.982993603	0.032402482	27.0532379	649.27771	24	20034.24316
	18	477.0083	820.0157471	3.296386	15.06787	2.51259112	2.542675495	0.0062826	5.169667721	124.072	7.822674751	7.913972378	0.032122329	26.3491707	632.380127	24	19680.37793
	19	479.1317	823.6665649	3.333524	15.00216	2.4014616	2.40229249	0.005935736	4.890661716	117.3759	7.704708099	7.707446575	0.031284049	25.7707157	618.4971924	24	19767.99756
	20	477.2063	820.355835	3.340328	14.99012	2.40638995	2.402776718	0.005936929	4.871973515	116.9274	7.620604515	7.608141422	0.030880978	25.3371162	608.0908203	24	19688.54004
	21	476.217	818.6557617	3.32265	15.0214	2.84455204	2.856722593	0.007058569	5.774778366	138.5947	7.575135231	7.602426529	0.030857787	25.2651253	606.3629761	24	19647.73828
	22	478.0442	821.7963257	3.314764	15.03535	3.66968131	3.691975355	0.009122363	7.49812603	179.955	7.57068491	7.616527557	0.030915026	25.4086456	609.8074951	24	19723.11182
	23	483.0933	830.4766846	3.322777	15.02118	4.09862185	4.112857819	0.0101623	8.44337368	202.641	7.596916676	7.624526978	0.030947484	25.7010117	616.8242798	24	19931.44043
	24	480.1566	825.4281006	3.328564	15.01094	3.69654918	3.704790831	0.009154028	7.559312344	181.4235	7.567822456	7.582199097	0.030775687	25.4058704	609.7409058	24	19810.27441
	25	188.481	648.0274048	2.673865	13.55676	13.1190701	42.59077835	0.105235912	15.39057732	184.6869	7.258277416	8.859405518	0.035959765	23.0595856	276.7150269	11.35833	7360.510817
	26	486.3134	836.0118408	3.313237	15.03805	3.38748336	3.40756464	0.00841962	7.046958923	169.127	7.757967949	7.808681011	0.03169496	26.4973373	635.9360962	24	20064.28418
	27	486.2063	835.8276367	3.299057	15.06314	3.08239245	3.115765333	0.007698626	6.44264555	154.6235	7.84779501	7.933058739	0.032199789	26.9192829	646.0628052	24	20059.86328
	28	485.8468	835.2088623	3.296895	15.06696	2.79081464	2.822952032	0.006975126	5.830886841	139.9413	8.028558731	8.12103653	0.032962784	27.5328255	660.7877808	24	20045.0127
	29	486.3214	836.026001	3.308977	15.04559	2.4620347	2.481913805	0.006132464	5.129858017	123.1166	8.300741196	8.365549088	0.033955257	28.3878422	681.3082275	24	20064.62402
	30	500.967	861.2028809	3.332253	15.00441	3.10306048	3.105093718	0.00767226	6.609216213	158.6212	8.530474663	8.537464142	0.034653038	29.8453369	716.2880859	24	20668.86914
	31	502.497	863.8335571	3.322395	15.02185	4.74521112	4.751255512	0.011739695	10.14801311	243.5523	8.374509811	8.40780735	0.034126773	29.4787331	707.489624	24	20732.00537
Total		341,001	593731.9904							74,714					462,911	16682.62	14,073,215
Average		482.3212	839.7906512	3.282094	14.9678	2.27092732	2.968476582	0.007333333	4.636657274	105.6774	8.001307278	8.116707627	0.032942374	27.6998055	654.753721	22.85291	19278.37652
Ann Avg.		170,501								37,357					231,455	8341.311	7,036,607

6898.634736 mmscf/yr

Fuel Sulfur Content Data

Month	ppm S	gr S/100 scf
Nov-01	<1.0	<0.06
Dec-01	1.1	0.07
Jan-02	<1.0	<0.06
Feb-02	<1.0	<0.06
Mar-02	<1.0	<0.06
Apr-02	<1.0	<0.06
May-02	<1.0	<0.06
Jun-02	<1.0	<0.06
Jul-02	<1.0	<0.06
Aug-02	<1.0	<0.06
Sep-02	<1.0	<0.06
Oct-02	<1.0	<0.06
Nov-02		
Dec-02	<1.0	<0.06
Jan-03	<1.0	<0.06
Feb-03	<1.0	<0.06
Mar-03	<1.0	<0.06
Apr-03	<1.0	<0.06
May-03	<1.0	<0.06
Jun-03	<1.0	<0.06
Jul-03	<1.0	<0.06
Aug-03	<1.0	<0.06
Sep-03	<1.0	<0.06
Oct-03	<1.0	<0.06

ATTACHMENT B

SCREEN3 Dispersion Model Results

12/08/03
16:53:47

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 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 96043 ***

KRCC SIMPLE CYCLE

SIMPLE TERRAIN INPUTS:
   SOURCE TYPE            =        POINT
   EMISSION RATE (G/S)    =      1.00000
   STACK HEIGHT (M)       =      14.2000
   STK INSIDE DIAM (M)    =       5.3600
   STK EXIT VELOCITY (M/S)=      24.9000
   STK GAS EXIT TEMP (K)  =     824.8000
   AMBIENT AIR TEMP (K)   =     293.0000
   RECEPTOR HEIGHT (M)    =        .0000
   URBAN/RURAL OPTION     =        RURAL
   BUILDING HEIGHT (M)    =        .0000
   MIN HORIZ BLDG DIM (M) =        .0000
   MAX HORIZ BLDG DIM (M) =        .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.


BUOY. FLUX = 1130.753 M**4/S**3;  MOM. FLUX = 1581.930 M**4/S**2.

*** FULL METEOROLOGY ***

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***
```

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
25.	.6809E-10	6	1.0	1.2	10000.0	255.16	33.60	33.59	NO
100.	.5793E-01	6	1.0	1.2	10000.0	255.16	68.97	68.88	NO
200.	.5855E-01	6	1.0	1.2	10000.0	255.16	69.28	68.97	NO
300.	.5931E-01	6	1.0	1.2	10000.0	255.16	69.76	69.07	NO
400.	.6020E-01	6	1.0	1.2	10000.0	255.16	70.38	69.20	NO
500.	.6120E-01	6	1.0	1.2	10000.0	255.16	71.15	69.36	NO
600.	.6229E-01	6	1.0	1.2	10000.0	255.16	72.05	69.52	NO
700.	.6348E-01	6	1.0	1.2	10000.0	255.16	73.06	69.71	NO
800.	.6445E-01	6	1.0	1.2	10000.0	255.16	74.18	69.88	NO
900.	.1233	1	3.0	3.1	960.0	869.39	238.79	390.79	NO
1000.	.2360	1	3.0	3.1	960.0	869.39	259.91	479.56	NO
1100.	.3295	1	3.0	3.1	960.0	869.39	280.66	579.31	NO
1200.	.3819	1	3.0	3.1	960.0	869.39	301.09	690.12	NO
1300.	.3972	1	3.0	3.1	960.0	869.39	321.21	812.07	NO
1400.	.3971	1	2.5	2.6	1041.4	1040.43	364.51	953.94	NO
1500.	.3851	1	2.5	2.6	1041.4	1040.43	385.00	1097.96	NO
1600.	.3684	1	2.5	2.6	1041.4	1040.43	405.23	1253.37	NO
1700.	.3515	1	2.5	2.6	1041.4	1040.43	425.23	1420.24	NO
1800.	.3360	1	2.5	2.6	1041.4	1040.43	445.01	1598.63	NO
1900.	.3218	1	2.5	2.6	1041.4	1040.43	464.59	1788.60	NO
2000.	.3097	1	2.5	2.6	1041.4	1040.43	482.84	1989.93	NO
2100.	.3013	1	2.5	2.6	1041.4	1040.43	496.22	2201.95	NO
2200.	.2933	1	2.5	2.6	1041.4	1040.43	509.72	2425.94	NO
2300.	.2857	1	2.5	2.6	1041.4	1040.43	523.30	2661.93	NO
2400.	.2784	1	2.5	2.6	1041.4	1040.43	536.97	2909.94	NO

```
  2500.   .2715        1     2.5    2.6  1041.4 1040.43  550.70 3169.99    NO
  2600.   .2649        1     2.5    2.6  1041.4 1040.43  564.49 3442.12    NO
  2700.   .2585        1     2.5    2.6  1041.4 1040.43  578.33 3726.37    NO
  2800.   .2525        1     2.5    2.6  1041.4 1040.43  592.21 4022.76    NO
  2900.   .2467        1     2.5    2.6  1041.4 1040.43  606.13 4331.33    NO
  3000.   .2411        1     2.5    2.6  1041.4 1040.43  620.07 4652.13    NO
  3500.   .2167        1     2.5    2.6  1041.4 1040.43  690.06 5000.00    NO
  4000.   .2071        4    20.0   21.1  6400.0  135.51  241.95   85.29    NO
  4500.   .2027        4    20.0   21.1  6400.0  135.51  268.43   90.52    NO
  5000.   .1963        4    20.0   21.1  6400.0  135.51  294.64   95.58    NO
  5500.   .1888        4    20.0   21.1  6400.0  135.51  320.58  100.49    NO
  6000.   .1809        4    20.0   21.1  6400.0  135.51  346.28  105.25    NO
  6500.   .1728        4    20.0   21.1  6400.0  135.51  371.75  109.88    NO
  7000.   .1705        5     5.0    5.7 10000.0  188.03  300.08   82.62    NO
  7500.   .1759        5     5.0    5.7 10000.0  188.03  318.67   84.51    NO
  8000.   .1807        5     5.0    5.7 10000.0  188.03  337.15   86.35    NO
  8500.   .1848        5     5.0    5.7 10000.0  188.03  355.51   88.16    NO
  9000.   .1883        5     5.0    5.7 10000.0  188.03  373.76   89.93    NO
  9500.   .1912        5     5.0    5.7 10000.0  188.03  391.90   91.67    NO
 10000.   .1941        5     4.5    5.1 10000.0  194.24  410.16   94.33    NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND    25. M:
  1306.   .3973        1     3.0    3.1   960.0  869.39  322.21  818.46    NO

 DWASH=   MEANS NO CALC MADE (CONC = 0.0)
 DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

 *** INVERSION BREAK-UP FUMIGATION CALC. ***
  CONC (UG/M**3)   =    .6386
  DIST TO MAX (M)  = 26415.46

     ****************************************
     *** SUMMARY OF SCREEN MODEL RESULTS ***
     ****************************************

 CALCULATION         MAX CONC    DIST TO   TERRAIN
  PROCEDURE         (UG/M**3)    MAX (M)    HT (M)
--------------     -----------   -------   -------
SIMPLE TERRAIN       .3973         1306.        0.

INV BREAKUP FUMI     .6386        26415.       --


****************************************************
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
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12/08/03
17:03:22

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 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 96043 ***

KRCC CURRENT (COGEN)

SIMPLE TERRAIN INPUTS:
   SOURCE TYPE            =        POINT
   EMISSION RATE (G/S)    =      1.00000
   STACK HEIGHT (M)       =      19.3800
   STK INSIDE DIAM (M)    =       3.6600
   STK EXIT VELOCITY (M/S)=      27.8000
   STK GAS EXIT TEMP (K)  =     408.2000
   AMBIENT AIR TEMP (K)   =     293.0000
   RECEPTOR HEIGHT (M)    =        .0000
   URBAN/RURAL OPTION     =        RURAL
   BUILDING HEIGHT (M)    =        .0000
   MIN HORIZ BLDG DIM (M) =        .0000
   MAX HORIZ BLDG DIM (M) =        .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.


BUOY. FLUX =  257.647 M**4/S**3;  MOM. FLUX = 1857.746 M**4/S**2.

*** FULL METEOROLOGY ***

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***
```

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
25.	.8545E-09	6	1.0	1.4	10000.0	158.40	21.55	21.54	NO
100.	.5037E-01	6	1.0	1.4	10000.0	158.40	39.93	39.79	NO
200.	.5726E-01	5	1.0	1.3	10000.0	194.46	51.36	50.41	NO
300.	.6149E-01	5	1.0	1.3	10000.0	194.46	52.80	50.77	NO
400.	.6615E-01	5	1.0	1.3	10000.0	194.46	54.65	51.18	NO
500.	.7912E-01	4	20.0	22.1	6400.0	66.63	37.09	20.09	NO
600.	.3846	1	3.0	3.1	960.0	363.89	148.30	167.43	NO
700.	.7233	1	3.0	3.1	960.0	363.89	168.89	225.47	NO
800.	.8473	1	3.0	3.1	960.0	363.89	189.05	294.03	NO
900.	.9177	1	2.0	2.1	640.0	536.15	230.05	385.51	NO
1000.	1.050	1	2.0	2.1	640.0	536.15	250.68	474.62	NO
1100.	1.112	1	1.5	1.6	709.4	708.40	300.47	589.16	NO
1200.	1.119	1	1.5	1.6	709.4	708.40	314.34	696.01	NO
1300.	1.087	1	1.5	1.6	709.4	708.40	328.47	814.97	NO
1400.	1.051	4	20.0	22.1	6400.0	66.63	93.61	42.25	NO
1500.	1.044	4	20.0	22.1	6400.0	66.63	99.53	43.96	NO
1600.	1.032	4	20.0	22.1	6400.0	66.63	105.43	45.64	NO
1700.	1.015	4	20.0	22.1	6400.0	66.63	111.29	47.29	NO
1800.	.9948	4	20.0	22.1	6400.0	66.63	117.12	48.91	NO
1900.	.9723	4	20.0	22.1	6400.0	66.63	122.93	50.50	NO
2000.	.9484	4	20.0	22.1	6400.0	66.63	128.71	52.07	NO
2100.	.9237	4	20.0	22.1	6400.0	66.63	134.46	53.61	NO
2200.	.8985	4	20.0	22.1	6400.0	66.63	140.18	55.13	NO
2300.	.8732	4	20.0	22.1	6400.0	66.63	145.88	56.63	NO
2400.	.8481	4	20.0	22.1	6400.0	66.63	151.56	58.11	NO

```
  2500.   .8233        4    20.0   22.1  6400.0   66.63  157.22   59.57    NO
  2600.   .7991        4    20.0   22.1  6400.0   66.63  162.85   61.01    NO
  2700.   .7754        4    20.0   22.1  6400.0   66.63  168.46   62.44    NO
  2800.   .7524        4    20.0   22.1  6400.0   66.63  174.05   63.84    NO
  2900.   .7301        4    20.0   22.1  6400.0   66.63  179.62   65.23    NO
  3000.   .7085        4    20.0   22.1  6400.0   66.63  185.17   66.60    NO
  3500.   .6326        4    15.0   16.6  4800.0   84.73  213.01   73.88    NO
  4000.   .5708        4    15.0   16.6  4800.0   84.73  240.03   79.71    NO
  4500.   .5528        5     3.5    4.4 10000.0  134.69  201.79   62.25    NO
  5000.   .5798        5     3.0    3.8 10000.0  140.77  221.59   65.62    NO
  5500.   .6043        5     2.5    3.2 10000.0  148.38  241.25   69.11    NO
  6000.   .6262        5     2.0    2.5 10000.0  158.34  260.81   72.85    NO
  6500.   .6473        5     2.0    2.5 10000.0  158.34  279.77   74.98    NO
  7000.   .6655        5     1.5    1.9 10000.0  172.33  299.15   79.18    NO
  7500.   .6846        5     1.5    1.9 10000.0  172.33  317.80   81.15    NO
  8000.   .7005        5     1.5    1.9 10000.0  172.33  336.32   83.06    NO
  8500.   .7135        5     1.5    1.9 10000.0  172.33  354.72   84.94    NO
  9000.   .7310        5     1.0    1.3 10000.0  194.46  373.80   90.13    NO
  9500.   .7462        5     1.0    1.3 10000.0  194.46  391.95   91.86    NO
 10000.   .7594        5     1.0    1.3 10000.0  194.46  409.99   93.57    NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND    25. M:
  1158.   1.123        1     1.5    1.6   709.4  708.40  308.34  648.56    NO

 DWASH=   MEANS NO CALC MADE (CONC = 0.0)
 DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

 *** INVERSION BREAK-UP FUMIGATION CALC. ***
  CONC (UG/M**3)   =    1.815
  DIST TO MAX (M)  = 12280.78

     ****************************************
     *** SUMMARY OF SCREEN MODEL RESULTS ***
     ****************************************

 CALCULATION         MAX CONC    DIST TO   TERRAIN
  PROCEDURE         (UG/M**3)    MAX (M)    HT (M)
--------------     -----------   -------   -------
SIMPLE TERRAIN       1.123         1158.        0.

INV BREAKUP FUMI     1.815        12281.       --


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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
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