

OLS ENERGY – CAMARILLO

1947 West Potrero Road
Camarillo, California 93012
Phone: (805) 388-7065 Fax: (805) 484-4257

May 7, 2010

Mr. Keith Duval
Manager of Compliance
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93033

RECEIVED
VENTURA COUNTY
10 MAY -7 AM 9:30
A.P.C.D.

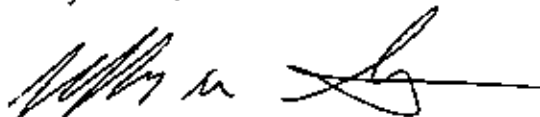
Subject: 2009 Annual Compliance Certification Report for OLS Energy - Camarillo

Dear Mr. Duval,

Attached is the 2009 Annual Compliance Certification Report for OLS Energy - Camarillo, for Permit No. 1267.

Should you have any questions, please contact me at the number listed above.

Very Truly Yours,



Jeffery M. Smith
Assistant Plant Manager

Attachments:

2009 Annual Compliance Report for OLS Energy - Camarillo

cc: Mr. Gerardo Rios, Chief, Permits Office, US EPA Region IX

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OLS Energy – Camarillo

Camarillo, CA

Title V part 70
Annual Compliance Certification

VCAPCD Permit to Operate #1267

Period covered April 1, 2009 to March 31, 2010

May 2010

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Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM

Cover Sheet

Form TVPF45/07-21-03 Page 1 of 2

Instructions

This compliance certification cover sheet signed by the responsible official, Form TVPF45, must be submitted annually, on the anniversary date of the Part 70 permit; or on a more frequent schedule, if required by an applicable requirement or permit condition. To complete the compliance certification, you will need to attach the following to this sheet:

1. A completed compliance certification permit form (Form TVPF46) for each applicable requirement or Part 70 permit condition. Be sure to attach to the form any information specifically required to be submitted with the compliance certification by the applicable requirement or Part 70 permit condition. On this form, indicate the method(s) for determining compliance; if you are currently in compliance, as determined by the most recent monitoring measurement or observation; and whether the method(s) used for determining compliance indicate continuous or intermittent compliance during the period of certification. *Continuous* compliance should be checked if the source is in compliance as determined by all monitoring measurements required by the permit during the certification period. *Intermittent* compliance should be checked if any of these monitoring measurements, or any other information or data, indicates a failure to meet a term or condition of the permit, including a failure to monitor, report, or collect data as required by the permit. For example, if the permit requires an annual source test to demonstrate compliance and that annual source test indicates compliance, and no pre-test or other information indicated noncompliance during the period, compliance is considered to be *continuous* for the reporting period. If the answer to Question No. 4, 5 or 6 is "Yes" on compliance certification permit form TVPF46, compliance cannot be considered *continuous* without some further explanation or documentation.

In addition, for the time period covered by the certification, please identify any excursions or exceedances as indicated by the monitoring data. Also identify any information or data beyond the required monitoring that indicates that you are not in compliance. Note that you may cross reference any previous reports regarding compliance status that have previously been submitted to the District.

2. For each applicable requirement or Part 70 permit condition that requires compliance with a quantifiable emission rate, attach a completed quantifiable applicable requirement or Part 70 permit condition form (TVPF47) to Form TVPF46 for all emission units subject to the requirement or condition. On this form, please indicate the emission units subject to the requirement or condition; the pollutant regulated by the requirement or condition; the most recent measured emission rate, and the limited emission rate, both in units consistent with the requirement or condition; and a specific source test or monitoring record citation including the test date.

In lieu of filling out Forms TVPF46 and/or TVPF47, you may supply all of the necessary information required on the attached forms in your own format, and attach this information to Form TVPF45.

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM

Cover Sheet

Form TVPF45/07-21-03 Page 2 of 2

A copy of each compliance certification shall be submitted to EPA Region IX at the following address:

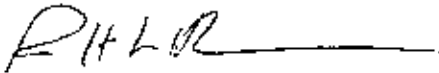
Mr. Gerardo Rios, Chief
Permits Office (AIR-3)
Office of Air Division
EPA Region IX
75 Hawthorne Street
San Francisco, CA 94105

Confidentiality

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

Certification by Responsible Official

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

Signature and Title of Responsible Official:  Robert Henderson Vice President	Date: 5/5/10
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Time Period Covered by Compliance Certification: 4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number: Attachment 74.9N7	Description: Rule 74.9.D.3 Applicable Requirements Emergency Standby Stationary Internal Combustion Engines Operated During Either an Emergency or Maintenance Operation
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Maintain records of:

- 1) Annual hours used during maintenance operations
- 2) Date, time, duration, and reason for emergency operation; and
- 3) Engine manufacturer, model number, operator id number, location.

Submit report of annual engine hours of maintenance to District every calendar year by February 15.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?

3. Please indicate if compliance during the reporting period was continuous or intermittent:
 - Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
 - Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.

4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by data and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

**Emergency Standby Stationary Internal Combustion Engines
Attachment 74.9N7**

Emergency standby stationary internal combustion engines are subject to the permit conditions of this Attachment. Annual Compliance Certification consists of the following information.

Engine	Maintenance Operations	Permit Condition
Blackstart Generator	5.80 hours	< 50 hours per year

Emergency Operations

Date / Time	Duration	Reason

Emergency Standby Stationary Internal Combustion Engine Data

Characteristic	Data
Manufacturer	Detroit Diesel
Model Number	16V71 GDT 565
Operator ID	Blackstart Engine
Location	Between switchyard and package boilers

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O.L.S ENERGY-CAMARILLO

1947 West Potrero Road
Camarillo, California 93012
Telephone: (805)388-7065 Fax: (805)484-4257

January 21, 2010

Tod Neilan
Air Quality Specialist, Compliance Division
Ventura County Air Pollution Control District
669 County Square Drive
Ventura, CA 93003

Re: Stationary Internal Combustion Engine Maintenance Hours

Mr. Neilan,

In compliance with Title V Attachment 74.9 condition 4, the annual hours of maintenance operation for CY 2009 are summarized below:

Engine	Maintenance Operations	Permit Condition
Blackstart Generator	2.10 hours per year	< 50 hours per year

If you have any questions please contact me at the numbers above or via email.

Sincerely,



Jeffery M. Smith
Assistant Plant Manager
OLS Energy - Camarillo
jsmith@olsenergy.com

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Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, including Attachment Number and/or Permit Condition Number: Attachment ATCM	Description: ATCM for Stationary Compression Ignition Engines
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Records of hours operated for maintenance and testing.

Records of fuel type purchased for use.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?
3. Please indicate if compliance during the reporting period was continuous or intermittent:
- Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
- Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.
4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by data and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

**Emergency Standby Stationary Internal Combustion Engines
Attachment ATCM**

Emergency standby stationary internal combustion engines are subject to the permit conditions of this Attachment. Annual Compliance Certification consists of the following information.

Engine	Maintenance Operations	Permit Condition
Blackstart Generator	5.80 hours	< 20 hours per year

Emergency Standby Stationary Internal Combustion Engine Fuel Purchases

No Fuel Oil Purchased this permit year.

Date	Volume	Fuel Type

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Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number: <p style="text-align: center;">Attachment 74.15N1</p>	Description: <p style="text-align: center;">Rule 74.15.B.1 Applicable Requirements Boilers, Heater Treaters, Steam Generators, and Process Heaters: NO_x and CO Emission Limits Annual Heat Input ≥ 9,000 MMBtu</p>
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Biennial source test: NO _x - ARB Method 100 CO - ARB Method 100
Maintain records of: 1) Source test report; and 2) Daily records of alternate fuel consumption.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?
3. Please indicate if compliance during the reporting period was continuous or intermittent:
 Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
 Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.
4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF47/12-21-98

Emission Unit Description: Boiler #2 Per Attachment 74.15 N1		Pollutant: NO _x
Measured Emission Rate: 32.7 ppm _{vd} @ 3% O ₂	Limited Emission Rate: 40 ppm _{vd} @ 3% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 18, 2008

Emission Unit Description: Boiler #2 Per Attachment 74.15 N1		Pollutant: CO
Measured Emission Rate: 233 ppm _{vd} @ 3% O ₂	Limited Emission Rate: 400 ppm _{vd} @ 3% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 18, 2008

Emission Unit Description: Boiler #3 Per Attachment 74.15 N1		Pollutant: NO _x
Measured Emission Rate: 37.0 ppm _{vd} @ 3% O ₂	Limited Emission Rate: 40 ppm _{vd} @ 3% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 18, 2008

Emission Unit Description: Boiler #3 Per Attachment 74.15 N1		Pollutant: CO
Measured Emission Rate: 29 ppm _{vd} @ 3% O ₂	Limited Emission Rate: 400 ppm _{vd} @ 3% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 18, 2008

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**BIENNIAL COMPLIANCE TEST REPORT FOR
BOILERS HX002 AND HX003 AT OLS ENERGY -
CAMARILLO COGENERATION**

PREPARED FOR:

**OLS ENERGY - CAMARILLO
1947 WEST POTRERO ROAD
CAMARILLO, CALIFORNIA 93010**

FOR SUBMITTAL TO:

**VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
669 COUNTY SQUARE DRIVE
VENTURA, CALIFORNIA 93003**

PREPARED BY:

MATTHEW R. McCUNE, P.E.

**DELTA AIR QUALITY SERVICES, INC.
1845 N. CASE STREET
ORANGE, CALIFORNIA 92865
(714) 279-6777**

NOVEMBER 2008

REPORT NUMBER: R036997

Delta 
Air Quality Services, Incorporated

1.0 INTRODUCTION AND SUMMARY

Delta Air Quality Services, Inc. (Delta) was contracted by OLS Energy – Camarillo Cogeneration to perform the biennial compliance tests for boilers HX002 and HX003 at OLS Energy – Camarillo Cogeneration. The tests are required by Ventura County Air Pollution Control District (VCAPCD) Rule 74.15.B.1.

This report documents the results of the tests performed on November 18, 2008. The Delta test team consisted of Matt McCune, David Wells, and Jose Zamora. Jeff Smith of OLS Energy coordinated the testing. A test plan was submitted to, and approved by the Ventura County Air Pollution Control District (VCAPCD). Mr. Lyle Olson of the VCAPCD was on-site to witness the tests.

The program consisted of a single, 64-minute, test of each boiler to determine NO_x and CO emissions at the exhaust stack location. The results of the tests are summarized in Table 1-1. The results show the NO_x emissions were below the emission limit of 40 ppm corrected to 3% O₂ and the CO emissions were below the emission limit of 400 ppm corrected to 3% O₂.

TABLE 1-1
BIENNIAL SOURCE TEST RESULTS SUMMARY
OLS ENERGY - CAMARILLO
NOVEMBER 18, 2008

Parameter	Units	HX002	HX003	Limit
Oxides of Nitrogen	ppm @ 3% O ₂	32.7	37.0	40
Carbon Monoxide	ppm @ 3% O ₂	233	29	400

Section 2.0 of this document provides a brief description of the unit, test conditions, and sample location. Details of the test procedures are provided in Section 3.0. Section 4.0 provides the results of each individual test. All raw data, calculations, quality assurance data, and unit operating conditions are provided in the appendices.

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number: Attachment STRMLN1267-LM-2500-NO _x ,NH ₃	Description: GE LM 2500-33 Gas Turbine Based Cogeneration Unit NO _x and NH ₃ Applicable Requirements Including Streamlined NO _x Requirements
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Continuous emission monitoring system for: Fuel consumption, NO _x , O ₂ , and control system operating parameters
Annual source test: NO _x – EPA Method 20 O ₂ – ARB Method 100 NH ₃ – BAAQMD Method ST-1B (1/20/82) Gaseous fuel HHV – ASTM Method D1826-88
Maintain records of: 1) Source test report; 2) Maintenance operations, periodic inspections, and repairs performed on the gas turbine, air pollution control system, and continuous emission monitors; and 3) Violations on exceedances of limits.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?

3. Please indicate if compliance during the reporting period was continuous or intermittent:
- Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
- Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as "a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring."
5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by data and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

**GE LM 2500-33 Gas Turbine Based Cogeneration Unit
Attachment STRMLN1267LM2500-NO_xNH₃**

GE LM 2500-33 Gas Turbine is subject to the permit conditions of this Attachment. Annual Compliance Certification includes the following information.

List of CEM Breakdowns

Date	Time	Description	Excess Emissions

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF47/12-21-98

Emission Unit Description: GE LM 2500-33 Natural Gas Fired Turbine Per Attachment STRMLN1267-LM-2500-NO _x ,NH ₃		Pollutant: NO _x
Measured Emission Rate: 8.0 ppm _{vd} @ 15% O ₂	Limited Emission Rate: 9 ppm _{vd} @ 15% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 23, 2009

Emission Unit Description: GE LM 2500-33 Natural Gas Fired Turbine Per Attachment STRMLN1267-LM-2500-NO _x ,NH ₃		Pollutant: NH ₃
Measured Emission Rate: 0.9 ppm _{vd} @ 15% O ₂	Limited Emission Rate: 20 ppm _{vd} @ 15% O ₂	Specific Source Test of Monitoring Record Citation: Emissions Testing PTO #1267 Test Date: November 23, 2009

Emission Unit Description:		Pollutant:
Measured Emission Rate:	Limited Emission Rate:	Specific Source Test of Monitoring Record Citation: Test Date:

Emission Unit Description:		Pollutant:
Measured Emission Rate:	Limited Emission Rate:	Specific Source Test of Monitoring Record Citation: Test Date:

**2009 ANNUAL COMPLIANCE
TEST REPORT FOR
OLS ENERGY - CAMARILLO**

PREPARED FOR:

**OLS ENERGY - CAMARILLO
1947 WEST POTRERO ROAD
CAMARILLO, CALIFORNIA 93010**

FOR SUBMITTAL TO:

**VENTURA COUNTY AIR POLLUTION CONTROL DISTRICT
669 COUNTY SQUARE DRIVE
VENTURA, CALIFORNIA 93003**

PREPARED BY:

MATTHEW R. McCUNE, P.E.

**DELTA AIR QUALITY SERVICES, INC.
1845 N. CASE STREET
ORANGE, CALIFORNIA 92865
(714) 279-6777**

DECEMBER 2009

REPORT NUMBER: R037820

Delta 
Air Quality Services, Incorporated

1.0 INTRODUCTION AND SUMMARY

Delta Air Quality Services, Inc. (Delta) was contracted by OLS Energy – Camarillo Cogeneration to perform the 2009 annual compliance test for Oxides of Nitrogen (NO_x) and Ammonia (NH₃) emissions.

This report documents the results of the tests performed on November 23, 2009. The Delta test team consisted of Matt McCune, Mike Miller, and Dan Avila. Jeff Smith of OLS Energy coordinated the testing. A test plan was submitted to, and approved by the Ventura County Air Pollution Control District (VCAPCD). Mr. Lyle Olson of the VCAPCD was on-site to witness the tests.

The program consisted of a triplicate, 60-minute, tests to determine NO_x and NH₃ emissions at the exhaust stack location. The results of the tests are summarized in Table 1-1. The results show the NO_x emissions were below the emission limit of 9 ppm corrected to 15% O₂ and the NH₃ emissions were below the emission limit of 20 ppm corrected to 15% O₂.

TABLE 1-1
ANNUAL SOURCE TEST RESULTS SUMMARY
OLS ENERGY - CAMARILLO
NOVEMBER 23, 2009

Parameter	Units	Measured	Limit
Oxides of Nitrogen	ppm @ 15% O ₂	8.0	9
Ammonia	ppm @ 15% O ₂	0.9	20

Section 2.0 of this document provides a brief description of the unit, test conditions, sample location, and CEMS. Details of the test procedures are provided in Section 3.0. Section 4.0 provides the results of each individual test. All raw data, calculations, quality assurance data, and unit operating conditions are provided in the appendices.



E-mail: pgtech@earthlink.net

4100 Burr Street
 P.O. Box 80847
 Bakersfield, CA 93380-0847
 Telephone (861) 324-1317
 Fax (861) 324-2746

RECEIVED

MAR 02 2010

O.I.S. ENERGY-CAMARILLO

OLS Energy
 1947 W. Potrero Rd.
 Camarillo, Ca 93012

Sampled: 2/9/2010
 Submitted: 2/9/2010
 Analyzed: 2/10/2010
 Reported: 2/12/2010

Gas Analysis by Chromatography - ASTM D 3588-91

Company:	OLS Energy	Lab No.:	100192-1
Location:	Camarillo	Purchase Order #:	
Description:	Co-gen Fuel Gas	Sample Type:	

Component	Mole %	Weight %	GMCF
Oxygen	ND	0.00	
Nitrogen	0.16	0.27	
Carbon Dioxide	0.88	2.30	
Hydrogen	ND	0.00	
Carbon Monoxide	ND	0.00	
Methane	96.21	91.61	
Ethane	2.04	3.64	
Propane	0.47	1.23	0.130
iso-Butane	0.06	0.21	0.020
n-Butane	0.08	0.28	0.025
iso-Pentane	0.03	0.13	0.011
n-Pentane	0.02	0.09	0.007
Hexanes Plus	0.05	0.26	0.021
Totals	100.00	100.00	0.213

Specific Volume, ft ³ /lb	22.62	Values Corrected for Compressibility	CHONS	Weight %
Compressibility (Z) Factor	0.9978			
Specific Gravity, Calculated	0.5817	0.5827	Carbon	73.920
			Hydrogen	24.142
GROSS				
BTU/lb	Dry	1029.6	Oxygen	1.671
	Wet	1010.6	Nitrogen	0.266
BTU/lb	Dry	23165.3	Sulfur	0.000
BTU/lb	Wet	22760.0	F FACTOR @	8625
NET				
BTU/lb	Dry	927.1	60 deg F, dry basis	
	Wet	910.9		
BTU/lb	Dry	20879.6	F FACTOR @	8496
BTU/lb	Wet	20514.2	60 deg F, dry basis	

Hydrogen Sulfide, ppm	Not Tested	Method	ASTM D4810
Total Sulfur as Hydrogen Sulfide, ppm	TR<1	Method	ASTM D 3246
Dew Point, deg F	Not Tested	Method	Bureau of Mines
Moisture, lbs H ₂ O/MMCF	Not Tested	Method	Bureau of Mines

ND : None Detected

Tr : Trace

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Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number; Attachment STRMLN1267-LM-2500-SO _x	Description: GE LM 2500-33 Gas Turbine Based Cogeneration Unit SO _x Applicable Requirements – Streamlined Natural Gas and Distillate Fuel Oil Limits
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Only used PUC quality gas. Did not have any fuel oil deliveries.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?
3. Please indicate if compliance during the reporting period was continuous or intermittent:
- Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
- Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.
4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number: Attachment PO1267PC1 Condition No. 1	Description: <p style="text-align: center;">Additional Permit Requirements OLS Energy – Camarillo Condition No. 1 Throughput and Consumption Limits</p>
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

1. Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Maintain 12-month rolling average records of throughput and consumption.

2. Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?
3. Please indicate if compliance during the reporting period was continuous or intermittent:
 - Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
 - Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.
4. Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
Form TVPF46/07-21-03 Page 2 of 2

5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by date and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)	EMISSION FACTORS (PER TON)
Fuel Gas (MMCF)	184,982	138,814	192,666	168,302	165,841	167,471	122,673	159,018	135,078	159,692	157,854	157,049	14.88 TONS	13.34 TONS
Fuel Oil (Mgals)	0	0	0	0	0	0	0	0	0	0	0	0	33.38 TONS	24.26 TONS
ROG	2334.64	1667.39	2207.69	2381.94	2346.95	2368.71	1734.41	2250.08	2200.01	2269.71	2233.63	2222.74	8.73 TONS	6.76 TONS
NOx	4284.03	3576.81	4159.02	4088.4	4164.85	4113.92	3136.86	4124.58	4102.52	4112.82	4076.3	4077.12	11524.87 LBS	8572.00 LBS
PM	1008.41	845.55	992.88	1028.07	1011.03	1027.87	747.70	970.00	948.41	974.76	952.91	958.00	25.01 TONS	18.57 TONS
SOx	88.99	83.17	97.91	100.98	99.59	100.98	73.54	95.41	93.28	95.82	94.77	94.23	57.69 TONS	42.44 TONS
CO	8716.17	7323.02	8294.83	8881.68	8761.38	8847.48	6475.56	8400.83	8213.88	8438.78	8338.42	8296.80	101724.30 LBS	80866.00 LBS
NH3 (Vapor Mads)	276.8781	188.4851	217.3251	205.7341	204.7821	203.0027	153.1881	199.8431	195.3215	195.3215	192.0120	192.0120	50.86 TONS	37.44 TONS

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)	EMISSION FACTORS (PER TON)
Fuel Gas (MMCF)	0.156	1.818	0.092	0.147	0.278	0.190	1.741	0.280	1.638	0.875	0.055	0.684	105.28 TONS	0.20 TONS
Fuel Oil (Mgals)	0	0	0	0	0	0	0	0	0	0	0	0	33.38 TONS	24.26 TONS
ROG	2.09	21.77	0.68	1.08	3.76	2.56	23.42	6.48	20.68	11.77	0.74	9.20	8.73 TONS	6.76 TONS
NOx	7.83	82.44	3.38	7.49	14.21	9.83	88.08	24.45	78.24	44.87	2.80	34.85	11524.87 LBS	8572.00 LBS
PM	1.18	12.30	0.51	1.12	2.17	1.44	13.23	3.86	11.62	6.55	0.42	5.20	25.01 TONS	18.57 TONS
SOx	0.08	0.87	0.04	0.08	0.17	0.11	1.04	0.29	0.92	0.53	0.03	0.41	5.77 TONS	4.24 TONS
CO	48.24	501.70	20.92	45.57	88.49	58.83	539.71	148.92	478.16	271.25	17.05	212.08	101724.30 LBS	80866.00 LBS

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PD1287P02

EMISSION SUBTOTALS	EMISSION FACTORS
7.83 MMCF	105.28 TONS
0.00 MMCF	33.38 TONS
2.09 ROG	8.73 TONS
7.83 NOx	11524.87 LBS
1.18 PM	25.01 TONS
0.08 SOx	57.69 TONS
48.24 CO	101724.30 LBS

3. EMERGENCY GENERATOR OPERATING HOURS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL HOURS
Maintenance	0.00	0.00	0.00	0.00	0.20	0.30	3.20	0.00	0.00	0.00	0.00	0.00	6.80 HOURS
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 HOURS

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines Attachment A10M In-Use Emergency Engines

PERMITTED LIMITS
Maintenance 20.00 HOURS
Emergency N/A HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	174.350	104.985	133.614	162.668	168.307	165.841	167.471	122.673	159.018	165.478	160.897	157.854
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2,497.06	2,334.54	1,891.39	2,301.88	2,361.54	2,349.65	2,369.71	1,724.41	2,250.00	2,200.01	2,289.71	2,233.63
NOx	4515.9	4284.63	3516.91	4159.02	4093.4	4164.85	4135.92	3138.96	4174.59	4102.53	4142.62	4015.3
PM	1063.54	1008.41	849.35	982.38	1026.38	1011.63	1021.67	747.70	875.00	848.41	874.16	882.91
SOx	104.61	98.99	83.17	87.61	100.86	92.60	100.48	78.54	95.41	93.29	93.82	84.71
CO	8710.93	8716.17	7320.00	8694.63	8691.68	8761.39	8947.46	6475.64	8400.63	8213.86	8436.78	8339.42
Permit Page (Mscr)	1226	1241	1188	1217	1227	1206	1243	1103	1160	1183	1150	1120

GE LM-2500-33 GAS TURBINE		EMISSION FACTORS	
EMISSION SUBTOTALS		FUEL GAS	FUEL OIL
1696.87	MMCF	16.14	16.14
0.00	MMCF	0.00	0.00
20640.73	LBS	13.42	TONS
48431.62	LBS	24.22	TONS
11570.92	LBS	5.79	TONS
11396.12	LBS	0.57	TONS
102111.73	LBS	60.11	TONS

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0.272	0.158	1.676	0.067	0.147	0.218	0.100	1.741	0.460	1.538	0.078	0.065
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	3.86	2.08	21.77	0.89	1.98	3.75	2.06	23.42	6.46	20.68	11.77	0.74
NOx	13.65	7.83	62.44	3.39	7.48	14.21	8.09	68.68	24.46	78.24	44.67	2.80
PM	2.97	1.16	12.30	0.61	1.12	2.12	1.44	13.23	3.85	11.87	6.83	0.42
SOx	0.18	0.09	0.97	0.04	0.09	0.17	0.11	1.04	0.29	0.92	0.53	0.03
CO	64.28	48.24	501.70	20.02	45.57	88.49	68.83	539.71	148.82	476.16	271.25	17.05

BABCOCK & WILCOX BOILERS		EMISSION FACTORS	
EMISSION SUBTOTALS		FUEL GAS	FUEL OIL
7.42	MMCF	7.42	7.42
0.00	MMCF	0.00	0.00
90.74	LBS	0.05	TONS
377.74	LBS	0.19	TONS
69.36	LBS	0.00	TONS
4.45	LBS	0.00	TONS
2288.79	LBS	1.16	TONS

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PO1267P02

PERMITTED CONDITIONS (PER YEAR)	
ROC	14.88 TONS
NOx	33.36 TONS
PM	8.73 TONS
SOx	25.01 TONS
CO	67.60 TONS

EMISSION TOTALS	
ROC	26940.47 LBS
NOx	48500.36 LBS
PM	11627.27 LBS
SOx	1142.87 LBS
CO	102510.62 LBS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.79	0.00	0.30	0.00	0.50	0.20	0.50	3.20	0.20	0.00	0.50	0.30
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS	
Maintenance	6.70 HOURS
Emergency	0.00 HOURS

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines Attachment ATCM In-Use Emergency Engines

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)
Fuel Gas (MMCF)	106.026	174.350	184.985	138.814	162.885	188.307	185.841	167.474	122.573	180.018	168.478	159.697	14.88 TONS
Fuel Oil (kgal)	0	0	0	0	0	0	0	0	0	0	0	0	33.33 TONS
NOx	248.80	2467.06	2134.54	1861.38	2301.99	2681.64	2348.65	2368.71	1734.41	2260.08	2200.01	2250.71	8.73 TONS
PM	4207.08	4515.8	4284.83	3316.81	4159.02	4093.4	4184.85	4135.82	3135.98	4174.56	4102.53	4112.82	25.01 TONS
SOx	869.48	1063.54	1008.41	843.86	922.39	1028.07	1011.83	1071.87	747.70	970.00	848.41	874.15	5.62 TONS
CO	95.38	104.81	88.99	83.17	97.81	100.96	99.50	100.48	73.94	95.41	81.28	85.82	0.57 TONS
CO	4398.07	8718.83	8718.17	7523.00	8384.63	8891.84	8781.38	8467.48	6476.54	8400.83	8213.88	8408.78	102650.12 LBS
PERMITTED CONDITIONS (PER YEAR)	228.609	230.844	228.609	189.465	217.278	252.084	243.182	230.022	163.166	219.843	203.019	230.120	

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)
Fuel Gas (MMCF)	0.000	0.272	0.106	1.018	0.087	0.447	0.278	0.180	1.241	0.480	1.636	0.875	0.00 MMCF
Fuel Oil (kgal)	0	0	0	0	0	0	0	0	0	0	0	0	0.00 MMCF
NOx	0.00	3.66	2.98	21.77	0.88	1.98	3.76	2.58	23.42	8.48	20.88	11.77	0.05 TONS
PM	0.00	13.85	7.83	82.44	3.38	7.48	14.51	8.88	98.09	24.45	78.24	44.57	0.18 TONS
SOx	0.00	2.07	1.18	12.30	0.61	1.12	2.12	1.44	13.23	3.65	11.87	0.65	0.08 TONS
CO	0.00	0.16	0.08	0.97	0.04	0.09	0.17	0.11	1.04	0.28	0.82	0.63	0.00 TONS
PERMITTED CONDITIONS (PER YEAR)	84.281	48.24	604.70	20.62	48.67	85.49	66.83	538.71	148.82	478.19	271.25		

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PO1267PC2

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)
Fuel Gas (MMCF)	0.000	0.272	0.106	1.018	0.087	0.447	0.278	0.180	1.241	0.480	1.636	0.875	0.00 MMCF
Fuel Oil (kgal)	0	0	0	0	0	0	0	0	0	0	0	0	0.00 MMCF
NOx	0.00	3.66	2.98	21.77	0.88	1.98	3.76	2.58	23.42	8.48	20.88	11.77	0.05 TONS
PM	0.00	13.85	7.83	82.44	3.38	7.48	14.51	8.88	98.09	24.45	78.24	44.57	0.18 TONS
SOx	0.00	2.07	1.18	12.30	0.61	1.12	2.12	1.44	13.23	3.65	11.87	0.65	0.08 TONS
CO	0.00	0.16	0.08	0.97	0.04	0.09	0.17	0.11	1.04	0.28	0.82	0.63	0.00 TONS
PERMITTED CONDITIONS (PER YEAR)	84.281	48.24	604.70	20.62	48.67	85.49	66.83	538.71	148.82	478.19	271.25		

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED LIMITS (HOURS)
Maintenance	0.40	0.20	0.00	0.30	0.00	0.50	0.20	0.30	3.20	0.20	0.00	0.50	20.00 HOURS
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A HOURS
TOTAL HOURS	0.40	0.20	0.00	0.30	0.00	0.50	0.20	0.30	3.20	0.20	0.00	0.50	20.00 HOURS

REFERENCE: Airborne Toxics Control Measure For Stationary Compression Engines.
Attachment A TOCM Includes Emergency Engines

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	185.177	163.928	174.350	164.959	138.614	162.683	168.307	185.841	187.471	172.673	166.018	155.478
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2337.25	2240.80	2497.06	2334.64	1901.30	2301.88	2381.64	2348.85	2308.71	1734.41	2260.08	2200.01
NOx	4073.1	4207.08	4515.8	4284.83	3518.81	4158.02	4099.4	4184.86	4135.02	3135.88	4174.98	4102.53
PM	1007.88	999.48	1093.94	1008.41	846.58	992.38	1026.07	1011.63	1021.67	747.70	970.00	948.41
SOx	98.11	96.38	104.81	98.99	83.17	97.81	100.88	98.50	100.48	73.54	95.41	83.28
CO	8728.28	8398.07	9210.93	8718.17	7323.00	8594.83	8891.86	8781.38	8947.49	6475.54	8400.93	8213.88
and Oper (MWh)	2288.856	2236.308	2336.944	2226.978	1891.488	2111.275	2051.764	2243.152	2200.077	1683.165	2189.943	2043.216

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0.599	0.000	0.272	0.158	1.618	0.067	0.147	0.278	0.190	3.741	0.480	1.638
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	9.27	0.00	3.68	2.08	21.77	0.88	1.98	3.75	2.56	23.43	6.46	20.88
NOx	35.10	0.00	13.85	7.93	82.44	3.36	7.49	14.21	9.68	88.68	24.45	78.24
PM	8.24	0.00	2.07	1.18	12.30	0.51	1.12	2.12	1.44	13.73	3.63	11.67
SOx	0.41	0.00	0.16	0.08	0.87	0.04	0.08	0.17	0.11	1.04	0.28	0.92
CO	213.88	0.00	84.38	48.24	601.70	20.82	45.67	86.40	58.93	539.71	148.82	478.16

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment POT1267/PC2

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.40	0.20	0.00	0.30	0.00	0.50	0.20	0.30	3.20	0.20	0.00
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines, Attachment ATCM to Use Emergency Engines

PERMITTED LIMITS	20.00 HOURS
Maintenance Emergency	N/A HOURS

GE LM-2500-33 GAS TURBINE		EMISSION SUBTOTALS		EMISSION FACTORS	
1803.42	MMCF	1803.42	MMCF	1.00	MMCF/MMCF
0.00	MMCF	0.00	MMCF	0.00	MMCF/MMCF
26933.45	LBS	26933.45	LBS	13.47	TONS
48787.66	LBS	48787.66	LBS	24.39	TONS
11810.88	LBS	11810.88	LBS	5.81	TONS
114210.5	LBS	114210.5	LBS	0.97	TONS
100557.86	LBS	100557.86	LBS	60.28	TONS

BABCOCK & WILCOX BOILERS		EMISSION SUBTOTALS		EMISSION FACTORS	
7.17	MMCF	7.17	MMCF	1.00	MMCF/MMCF
0.00	MMCF	0.00	MMCF	0.00	MMCF/MMCF
88.80	LBS	88.80	LBS	0.05	TONS
355.47	LBS	355.47	LBS	0.18	TONS
54.53	LBS	54.53	LBS	0.03	TONS
4.30	LBS	4.30	LBS	0.00	TONS
2224.08	LBS	2224.08	LBS	1.11	TONS

EMISSION TOTALS		PERMITTED CONDITIONS (PER YEAR)	
27028.84	LBS	14.88	TONS
48153.16	LBS	33.39	TONS
11665.41	LBS	6.73	TONS
1148.36	LBS	26.01	TONS
102761.86	LBS	67.59	TONS

TOTAL HOURS	
5.30	HOURS
0.00	HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)	EMISSION TOTALS	EMISSION FACTOR
Fuel Gas (MMCF)	171.347	165.117	158.826	174.360	164.985	139.614	162.885	168.307	166.841	167.471	122.973	159.010	14.88 TONS	2728.32	0.04 TONS/MMCF
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00 MMCF	0.00 TONS/MMCF
ROC	2374.96	2237.28	2248.80	2467.06	2334.54	1961.39	2301.99	2381.54	2346.65	2269.71	1734.41	2250.08	27158.00	13.58 TONS	0.04 TONS/MMCF
NOx	4272.05	4277.1	4207.06	4515.8	4284.83	3515.81	4159.02	4093.4	4194.65	4135.82	3135.98	4174.58	49267.20	24.63 TONS	0.15 TONS/MMCF
PM	1045.22	1037.98	988.45	1083.84	1000.41	845.85	892.38	1078.81	1071.63	1021.97	747.70	870.00	11707.69	5.85 TONS	0.02 TONS/MMCF
SOx	102.81	89.11	95.38	104.81	98.98	83.17	97.91	100.88	99.50	100.48	73.64	85.41	1151.66	0.58 TONS	0.003 TONS/MMCF
CO	5052.28	8728.28	8366.07	9210.83	8718.12	7323.00	8594.83	8591.66	8751.38	8847.49	6476.64	8400.83	101388.26	50.70 TONS	0.02 TONS/MMCF
CO Usage (Mscf)	288.955	288.958	228.808	228.944	228.978	188.288	218.276	228.758	228.572	230.027	183.158	228.943			

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	PERMITTED CONDITIONS (PER YEAR)	EMISSION TOTALS	EMISSION FACTOR
Fuel Gas (MMCF)	0.183	0.698	0.000	0.272	0.199	1.818	0.007	0.147	0.279	0.190	1.741	0.400	5.82 MMCF	78.33	0.15 TONS/MMCF
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00 MMCF	0.00 TONS/MMCF
ROC	2.48	8.27	0.00	3.65	2.09	21.77	0.89	1.88	3.76	2.58	23.42	8.45	78.33	0.15 TONS	0.15 TONS/MMCF
NOx	9.42	35.10	0.00	13.85	7.83	82.44	3.39	7.48	14.71	8.68	88.88	24.45	298.85	0.15 TONS	0.15 TONS/MMCF
PM	1.41	5.24	0.00	2.07	1.18	12.30	0.51	1.12	2.12	1.44	13.23	3.85	44.26	0.02 TONS	0.02 TONS/MMCF
SOx	0.11	0.41	0.00	0.16	0.09	0.87	0.04	0.08	0.17	0.11	1.04	0.28	3.48	0.003 TONS	0.003 TONS/MMCF
CO	67.39	213.59	0.00	84.28	48.24	501.70	20.62	45.87	88.48	59.93	539.71	148.82	1006.27	0.90 TONS	0.02 TONS/MMCF

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment P01207 P02

ROC	NOx	PM	SOx	CO
14.88 TONS	33.38 TONS	8.73 TONS	25.01 TONS	57.68 TONS
2728.32	49593.85	11761.85	1165.07	108201.53

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL HOURS
Maintenance	0.40	0.00	0.40	0.20	0.00	0.00	0.00	0.00	0.20	0.30	0.00	0.20	6.70 HOURS
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 HOURS

REFERENCE: Altonne Traffic Control Measure For Stationary Compression Engines Attachment ATCM In-Use Emergency Engines

PERMITTED LIMITS	HOURS
Maintenance	20.00 HOURS
Emergency	N/A

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	158.428	171.347	155.177	158.928	174.350	164.905	138.814	162.885	168.307	168.841	167.471	172.073
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	221374	242466	233725	224880	246708	233404	195138	220188	238184	234885	236971	173441
NOx	49774	457205	42771	420708	43159	428483	351891	410902	40934	418483	413582	313586
PM	85493	104522	100738	98945	105364	100841	84565	98238	102887	101103	102167	74770
SOx	9387	10281	9911	8536	10481	8898	8317	8761	10088	9080	10048	7354
CO	876815	805228	872820	839807	921083	871617	732303	859463	888189	876138	884748	847584
kgb Usage (Mwh)	2270557	2288955	2288955	2288955	2288955	2288955	2288955	2288955	2288955	2288955	2288955	2288955

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0.812	0.185	0.689	0.000	0.272	0.456	1.616	0.087	0.147	0.219	0.180	1.741
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	10.82	2.48	8.27	0.00	3.86	2.68	21.77	0.89	1.88	3.75	2.58	23.42
NOx	41.08	9.42	35.10	0.00	13.85	7.93	82.44	3.38	7.49	14.21	8.88	88.88
PM	6.17	1.41	5.24	0.00	2.07	1.18	12.30	0.51	1.12	2.12	1.44	13.73
SOx	0.49	0.11	0.41	0.00	0.18	0.09	0.97	0.04	0.09	0.17	0.11	1.04
CO	25172	5735	21369	0.00	8428	4824	50170	2062	4567	8648	6893	53971

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment POT267P02

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.40	0.00	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.30	3.20
Emergency	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines. Attachment ATCM In-Use Emergency Engines

GE LM-2500-33 GAS TURBINE		EMISSION SUBTOTALS		EMISSION FACTORS	
1916.72	MMCF	1916.72	MMCF	1.00	MMCF/MMCF
0.00	MMCF	0.00	MMCF	1.00	MMCF/MMCF
27721.66	LBS	27721.66	LBS	13.66	TONS
49154.02	LBS	49154.02	LBS	24.68	TONS
11692.02	LBS	11692.02	LBS	5.85	TONS
11500.00	LBS	11500.00	LBS	0.68	TONS
107260.57	LBS	107260.57	LBS	50.83	TONS

BABCOCK & WILCOX BOILERS		EMISSION SUBTOTALS		EMISSION FACTORS	
6.18	MMCF	6.18	MMCF	1.00	MMCF/MMCF
0.00	MMCF	0.00	MMCF	1.00	MMCF/MMCF
82.78	LBS	82.78	LBS	0.04	TONS
373.66	LBS	373.66	LBS	0.18	TONS
46.78	LBS	46.78	LBS	0.02	TONS
3.89	LBS	3.89	LBS	0.00	TONS
1808.17	LBS	1808.17	LBS	0.95	TONS

EMISSION TOTALS		PERMITTED CONDITIONS (PER YEAR)	
27204.45	LBS	14.88	TONS
49467.58	LBS	33.38	TONS
11758.80	LBS	6.73	TONS
1153.73	LBS	26.01	TONS
103168.75	LBS	57.69	TONS

TOTAL HOURS	
5.60	HOURS
0.00	HOURS

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	151,741	156,448	171,347	165,177	103,628	174,350	164,985	138,614	102,686	168,307	185,841	167,471
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
NOx	2147.13	2273.74	2424.68	2337.26	2246.60	2487.05	2334.54	1861.39	2301.99	2391.54	2148.65	2309.71
NOx	3914.50	4071.4	4572.05	4277.1	4207.08	4576.8	4284.63	3518.91	4159.02	4093.4	4184.65	4176.92
PM	826.62	854.93	1007.66	989.45	1083.52	1086.41	946.65	792.33	1026.67	1071.63	1021.57	1021.57
SOx	81.04	83.87	102.81	90.11	88.38	104.61	88.89	83.17	97.61	100.89	98.52	100.48
CO	8018.47	8265.13	8052.26	8720.26	8396.07	8210.93	8716.17	7523.00	8594.63	8891.68	8781.38	8847.48
NH3 Usage (lbs/cy)	289,819	270,957	294,954	283,966	226,609	238,844	226,878	189,495	217,273	209,794	249,152	228,007

GE LM-2500-33 GAS TURBINE	
Emission Subtotals	
1945 BB MMBtu	
0.00 MMBtu	
27634.38 LBS	13.77 TONS
49922.62 LBS	24.87 TONS
11893.84 LBS	6.33 TONS
1197.54 LBS	0.58 TONS
107801.50 LBS	51.40 TONS

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	1,292	0.612	0.165	0.689	0.000	0.272	0.158	0.010	0.087	0.147	0.279	0.190
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
NOx	17.24	10.52	2.49	8.27	0.001	3.64	2.08	21.77	0.69	1.98	3.75	2.86
NOx	63.91	41.38	8.42	38.10	0.001	13.83	7.83	82.44	3.39	7.49	14.21	8.68
PM	8.74	6.17	1.41	6.24	0.001	2.97	1.18	12.30	0.51	1.12	2.12	1.44
SOx	0.77	0.48	0.11	0.41	0.001	0.18	0.08	0.87	0.04	0.09	0.17	0.11
CO	397.42	251.72	57.35	213.58	0.001	84.28	48.24	501.70	20.67	45.57	88.49	58.83

BABCOCK & WILCOX BOILERS	
Emission Subtotals	
6.70 MMBtu	
0.00 MMBtu	
18.62 LBS	0.04 TONS
290.17 LBS	0.15 TONS
43.20 LBS	0.02 TONS
3.42 LBS	0.00 TONS
1763.88 LBS	0.86 TONS

EMISSION TOTALS

PERMITTED CONDITIONS (PER YEAR)	ROCC	NOx	PM	SOx	CO
14.88 TONS	33.98 TONS	8.73 TONS	25.01 TONS	87.59 TONS	
27610.89 LBS	43.81 TONS	25.11 TONS	3.88 TONS	0.66 TONS	62.28 TONS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.00	0.40	0.00	0.40	0.20	0.00	0.30	0.00	0.50	0.20	0.30
Emergency	80.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL HOURS												
	80.30	0.00	0.40	0.00	0.40	0.20	0.00	0.30	0.00	0.50	0.20	0.30

REFERENCE: Auburn Toxic Control Measures For Stationary Compression Engines.
Attachment ATCM In-Use Emergency Engines.

PERMITTED LIMITS	HOURS
Maintenance	20.00 HOURS
Emergency	NA HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	158.237	151.741	155.448	171.347	185.177	158.078	174.350	164.089	138.614	187.886	168.307	185.841
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2380.65	2147.13	2213.74	2424.56	2337.25	2248.80	2487.08	2334.54	1961.39	2301.89	2381.54	2348.63
NOx	4130.8	3914.56	4071.4	4572.06	4277.1	4207.08	4515.8	4284.63	3518.81	4150.02	4093.4	4184.63
PM	1028.26	925.62	954.33	1045.22	1007.48	949.45	1063.54	1006.41	845.55	923.39	1028.67	1011.83
SOx	100.84	81.04	83.87	102.81	99.11	95.39	104.61	88.99	63.17	87.61	100.68	99.60
CO	18897.88	8018.47	8765.15	9052.28	8728.28	8386.07	9210.93	8715.17	7303.00	8594.83	8891.66	8761.34
NH3 Units (MCF)	299.026	290.010	270.657	288.955	260.950	228.809	336.944	276.878	310.466	247.278	205.764	243.152

GE LM-2500-33 GAS TURBINE	
EMISSION SUBTOTALS	
1948.88 MMCF	
0.00 MMCF	
275,457.72 LBS	13.77 TONS
495,977.60 LBS	24.80 TONS
11,074.67 LBS	5.84 TONS
11,688.00 LBS	0.58 TONS
1,028,418.77 LBS	61.42 TONS

ROC
NOx
PM
SOx
CO

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2.04	17.24	10.82	2.49	9.27	0.00	3.88	2.09	21.77	0.89	1.88	3.74
NOx	9.84	85.31	41.36	9.42	35.10	0.00	13.65	7.93	82.44	3.39	7.49	14.21
PM	1.44	9.74	8.17	1.41	6.24	0.00	2.07	1.18	12.30	0.51	1.12	2.12
SOx	0.11	0.77	0.48	0.11	0.41	0.00	0.16	0.09	0.97	0.04	0.09	0.17
CO	58.65	397.42	251.72	57.35	213.68	0.00	84.26	48.24	901.70	20.82	45.67	88.49

BABCOCK & WILCOX BOILERS	
EMISSION SUBTOTALS	
0.00 MMCF	
0.00 MMCF	
76.80 LBS	0.04 TONS
290.13 LBS	0.15 TONS
43.28 LBS	0.02 TONS
3.42 LBS	0.00 TONS
1765.81 LBS	0.88 TONS

ROC
NOx
PM
SOx
CO

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PD1267PC2

PERMITTED CONDITIONS (PER YEAR)	
ROC	14.88 TONS
NOx	33.36 TONS
PM	8.73 TONS
SOx	25.91 TONS
CO	57.59 TONS

EMISSION TOTALS	
ROC	27,621.82 LBS
NOx	502,177.73 LBS
PM	119,179.80 LBS
SOx	11,711.41 LBS
CO	1,048,907.57 LBS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.00	0.00	0.40	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.20
Emergency	0.00	80.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS	
Maintenance	2.00 HOURS
Emergency	80.30 HOURS

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines. Attachment ATCM In-Use Emergency Engine

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	NA HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	169,105	180,237	151,741	150,448	173,347	1165,177	156,929	174,350	184,566	139,614	162,695	108,307
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROG	2388.97	2380.66	2167.13	2213.74	2474.56	2337.24	2246.90	2467.08	2334.54	1981.39	2001.99	2061.54
NOx	4120.12	4130.9	3914.99	4071.4	4572.05	4277.1	4207.08	4515.9	4284.63	3516.91	4166.02	4003.4
PM	1632.03	1020.25	825.82	954.33	1045.22	1007.48	989.45	1063.84	1008.41	845.85	982.98	1026.67
SOx	101.61	109.84	81.04	93.67	102.01	88.11	85.38	104.61	88.99	63.17	97.61	100.98
CO	6938.04	6937.98	8016.47	8285.16	8052.28	18726.28	8188.07	8210.93	8718.17	7323.00	6594.53	6901.66
12-Month Total	23337.55	23302.91	20868.10	21035.72	24869.95	23849.66	22860.99	24949.64	23283.78	19188.485	21717.25	20667.54

GE LM-2500-33 GAS TURBINE	
EMISSION SUBTOTALS	
1950 MMBtu	1850.00
0.00 MMBtu	0.00
ROG	27592.50 TONS
NOx	49663.27 TONS
PM	11095.02 TONS
SOx	1170.00 TONS
CO	100018.80 TONS

2. BARCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	0.384	0.189	1.282	0.812	0.185	0.688	0.000	0.212	0.166	1.616	0.067	0.147
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROG	5.18	2.64	17.24	10.92	2.49	9.27	0.00	3.68	2.09	21.77	0.69	1.98
NOx	19.28	8.04	65.31	41.36	8.42	35.10	0.00	13.85	7.93	82.44	3.99	7.29
PM	2.92	1.44	8.74	6.17	1.41	5.24	0.00	2.07	1.18	12.30	0.51	1.12
SOx	0.23	0.11	0.77	0.49	0.11	0.41	0.00	0.16	0.09	0.97	0.04	0.09
CO	118.04	68.65	387.42	251.72	67.36	213.59	0.00	84.28	48.24	601.70	20.62	45.67

BARCOCK & WILCOX BOILERS	
EMISSION SUBTOTALS	
6.90 MMBtu	6.90
0.00 MMBtu	0.00
ROG	78.02 TONS
NOx	290.48 TONS
PM	44.08 TONS
SOx	3.48 TONS
CO	1792.18 TONS

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit
Attachment FO1267P02

PERMITTED CONDITIONS (PER YEAR)	
ROG	14.88 TONS
NOx	33.98 TONS
PM	8.33 TONS
SOx	25.07 TONS
CO	57.69 TONS

EMISSION TOTALS	
ROG	27670.53 TONS
NOx	60158.75 TONS
PM	11939.10 TONS
SOx	1173.48 TONS
CO	104816.78 TONS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.00	0.00	0.00	0.40	0.00	0.40	0.20	0.00	0.30	0.00	0.50
Emergency	4.10	0.00	80.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS	
Maintenance	1.80 HOURS
Emergency	84.80 HOURS

REFERENCE: Airboxe Test Central Measures for Stationary Compression Engines
Attachment ATCM (In-Use Emergency Engines)

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	152.139	169.166	189.237	151.741	158.448	171.347	186.177	158.926	174.350	184.965	139.614	182.945
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2294.27	2363.97	2380.55	2147.13	2213.74	2424.56	2337.25	2249.80	2167.06	2334.64	1981.39	2301.99
NOx	3883.14	4120.32	4130.32	3914.59	4071.4	4672.06	4277.1	4207.08	4515.9	4284.53	3316.91	4159.02
PM	988.05	1032.03	1026.25	823.92	864.33	1045.22	1007.59	969.43	1053.54	1006.41	945.65	992.38
SOx	87.28	101.61	100.64	81.04	83.87	102.61	98.11	95.38	104.81	88.99	83.17	87.61
CO	8585.60	8938.04	8997.96	8016.47	8295.15	9052.28	8728.28	8399.07	9210.93	8716.17	7323.00	8594.63
NH3 Usage (MCF)	248.018	233.755	233.029	239.818	237.052	268.665	268.956	239.609	236.644	228.978	149.365	217.975

GE LM-2500-33 GAS TURBINE	
EMISSION SUBTOTALS	
1943.63 MMCF	
0.00 MMCF	
27505.26 LBS	13.75 TONS
49733.01 LBS	24.87 TONS
11857.39 LBS	5.93 TONS
1168.30 LBS	0.59 TONS
102692.77 LBS	61.35 TONS

ROC
NOx
PM
SOx
CO

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0.933	0.384	0.189	1.282	0.612	0.155	0.989	0.000	0.272	0.168	1.678	0.087
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	19.20	6.16	2.54	17.24	10.92	2.49	9.27	0.00	3.66	2.09	21.77	0.69
NOx	42.41	19.68	9.64	65.91	41.38	9.42	35.10	0.00	13.85	7.93	82.44	3.39
PM	8.33	2.92	1.44	9.74	6.17	1.41	5.24	0.00	2.07	1.18	12.30	0.61
SOx	0.50	0.23	0.11	0.77	0.49	0.11	0.41	0.00	0.16	0.09	0.87	0.04
CO	256.08	119.04	59.65	397.42	251.72	67.35	213.59	0.00	84.26	48.24	501.70	20.82

BABCOCK & WILCOX BOILERS	
EMISSION SUBTOTALS	
6.49 MMCF	
0.00 MMCF	
87.24 LBS	0.04 TONS
330.40 LBS	0.17 TONS
49.29 LBS	0.02 TONS
3.69 LBS	0.00 TONS
2310.65 LBS	1.01 TONS

ROC
NOx
PM
SOx
CO

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PO1267-PC2

PERMITTED CONDITIONS (PER YEAR)	
ROC	14.86 TONS
NOx	33.38 TONS
PM	8.73 TONS
SOx	25.81 TONS
CO	67.59 TONS

EMISSION TOTALS	
ROC	27692.49 LBS
NOx	60083.41 LBS
PM	11908.68 LBS
SOx	1170.19 LBS
CO	104703.43 LBS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Operating Hours	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.20	0.00	0.00
Maintenance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emergency	0.00	4.10	0.00	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS
1.30 HOURS
64.40 HOURS

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

REFERENCE: Airborne Toxics Control Measure for Stationary Compression Engines. Attachment ATCM In-Use Emergency Engines

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	195.471	162.129	189.185	189.237	151.747	108.449	171.347	106.177	154.828	174.320	164.955	133.614
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2240.71	2294.27	2393.97	2380.65	2147.13	2213.74	2424.66	2337.25	2248.80	2487.08	2334.54	1861.98
NOx	4172.42	3663.14	4120.82	4130.8	3874.56	4071.4	4572.05	4277.1	4287.06	4515.8	4284.60	3578.91
PM	1009.07	889.05	1057.03	1027.25	929.62	824.33	1045.72	1007.68	969.45	1063.24	1008.47	845.55
SOx	99.25	97.28	101.51	100.84	91.04	93.87	102.81	99.11	86.38	104.61	88.98	63.17
CO	8729.18	8565.80	9838.04	8887.88	8016.47	4285.15	9082.26	8720.28	8398.07	9210.93	8718.72	7323.00
MHS Usage (kwh)	282333	226118	233755	293029	339819	270357	228026	260898	228008	228944	226378	179265

GE LM-2500-33 GAS TURBINE	
EMISSION SUBTOTALS	
1948.57 MMBtu	
0.00 Mgal	
27643.89 LBS	13.77 TONS
48751.41 LBS	24.98 TONS
11874.00 LBS	5.94 TONS
11879.33 LBS	0.50 TONS
102897.33 LBS	51.42 TONS

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMBtu)	0.343	0.833	0.394	0.189	1.262	0.812	0.185	0.668	0.000	0.272	0.158	1.618
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	4.61	11.20	6.18	2.64	17.24	10.92	2.49	9.27	0.00	3.05	2.09	21.77
NOx	17.45	42.41	18.58	9.64	65.31	41.38	9.42	35.10	0.00	13.85	7.43	82.44
PM	2.60	8.33	2.82	1.44	9.74	6.17	1.41	5.24	0.00	2.07	1.18	12.80
SOx	0.21	0.60	0.23	0.11	0.77	0.49	0.11	0.41	0.00	0.16	0.09	0.97
CO	109.21	298.08	119.04	58.65	397.42	251.72	57.35	213.58	0.00	84.25	48.24	501.70

BABCOCK & WILCOX BOILERS	
EMISSION SUBTOTALS	
6.76 MMBtu	
0.00 Mgal	
80.95 LBS	0.06 TONS
544.46 LBS	0.17 TONS
51.39 LBS	0.03 TONS
4.08 LBS	0.00 TONS
2888.26 LBS	1.05 TONS

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit
Attachment P01207PC2

PERMITTED CONDITIONS (PER YEAR)	
ROC	14.88 TONS
NOx	33.28 TONS
PM	6.73 TONS
SOx	26.01 TONS
CO	57.89 TONS

EMISSION TOTALS	
ROC	27624.89 LBS
NOx	60085.87 LBS
PM	11825.47 LBS
SOx	1172.00 LBS
CO	104923.69 LBS

3. EMERGENCY GENERATOR OPERATING HOURS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.40	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40	0.00	0.20	0.00
Emergency	0.00	0.00	4.10	0.00	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS	
Maintenance	1.70 HOURS
Emergency	34.40 HOURS

REFERENCE: Airborne Toxic Control Measure For Stationary Combustion Engines
Attachment A1CM M-Use Emergency Engines

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

**OLS ENERGY CAMARILLO
ROLLING TWELVE-MONTH EMISSIONS CALCULATIONS**

1. GE LM-2500-33 GAS TURBINE (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	161.265	165.421	162.139	109.183	168.237	151.741	156.448	171.347	155.177	158.928	174.350	164.985
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	2283.18	2340.71	2294.27	2893.97	2390.55	2147.13	2213.74	2424.06	2337.25	2246.40	2487.08	2334.54
NOx	4227.34	4177.42	3983.14	4120.32	4130.9	3914.58	4071.4	4572.05	4277.1	4207.00	4515.9	4284.63
PM	983.64	1009.07	989.05	1032.03	1028.25	925.82	854.33	1045.22	1007.56	989.48	1063.54	1006.41
SOx	186.71	98.26	97.26	101.51	100.94	91.04	93.87	102.51	99.11	95.36	104.81	99.59
CO	8520.88	8798.19	8582.80	6938.04	8897.36	8018.47	8265.15	8652.28	8726.28	8398.07	8210.83	8748.17
NH3 Usage (Mscf)	2292.958	2252.333	2240.018	2233.755	2228.028	2209.918	2179.657	2208.955	2208.955	2208.955	2235.941	2226.370

GE LM-2500-33 GAS TURBINE	
EMISSION SUBTOTALS	
1659.24 MMCF	
0.00 MMCF	
27864.76 LBS	13.03 TONS
50461.84 LBS	25.23 TONS
12012.37 LBS	6.01 TONS
1181.54 LBS	0.59 TONS
104095.01 LBS	52.02 TONS

ROC
NOx
PM
SOx
CO

2. BABCOCK & WILCOX STEAM BOILERS (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Fuel Gas (MMCF)	0.871	0.343	0.833	0.384	0.189	1.282	0.912	0.185	0.689	0.000	0.272	0.158
Fuel Oil (Mgal)	0	0	0	0	0	0	0	0	0	0	0	0
ROC	11.71	4.61	11.20	6.16	2.54	17.24	10.92	2.48	9.27	0.00	3.05	2.09
NOx	94.37	17.45	42.41	19.56	9.84	65.31	41.86	9.42	35.10	0.00	13.65	7.93
PM	6.62	2.60	6.33	2.92	1.44	9.14	6.17	1.41	6.24	0.00	2.07	1.16
SOx	0.52	0.21	0.50	0.23	0.11	0.77	0.49	0.11	0.41	0.00	0.16	0.09
CO	270.01	106.21	268.06	119.04	66.63	397.42	261.72	67.35	213.59	0.00	84.26	48.24

BABCOCK & WILCOX BOILERS	
EMISSION SUBTOTALS	
6.01 MMCF	
0.00 MMCF	
80.90 LBS	0.04 TONS
308.38 LBS	0.15 TONS
45.71 LBS	0.02 TONS
3.61 LBS	0.00 TONS
1884.58 LBS	0.83 TONS

ROC
NOx
PM
SOx
CO

REFERENCE: Annual Emission Limits and Emission Factors from Title V Permit Attachment PO1267PC2

PERMITTED CONDITIONS (PER YEAR)	
ROC	14.88 TONS
NOx	33.58 TONS
PM	8.73 TONS
SOx	25.01 TONS
CO	67.68 TONS

EMISSION TOTALS	
27845.68 LBS	13.87 TONS
50788.28 LBS	25.38 TONS
12068.08 LBS	6.03 TONS
1185.15 LBS	0.59 TONS
105899.57 LBS	52.05 TONS

3. EMERGENCY GENERATOR OPERATING HOURS. (Permit to Operate #1267)

Month	1	2	3	4	5	6	7	8	9	10	11	12
Maintenance	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.40	0.20	0.00
Emergency	0.00	0.00	0.00	4.10	0.00	80.30	0.00	0.00	0.00	0.00	0.00	0.00

TOTAL HOURS	
1.40 HOURS	
84.30 HOURS	

PERMITTED LIMITS	
Maintenance	20.00 HOURS
Emergency	N/A HOURS

REFERENCE: Airborne Toxic Control Measure For Stationary Compression Engines Attachment ATCM In-Use Emergency Engines

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
 Applicable Requirement or Part 70 Permit Condition Attachment
 Form TVPF46/07-21-03 Page 1 of 2

Applicable Requirement or Part 70 Permit Condition

Citation, Including Attachment Number and/or Permit Condition Number: Attachment PO1267PC1 Condition No. 2	Description: Additional Permit Requirements OLS Energy – Camarillo Condition No. 2 Solvent Usage
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Attach to this form any information specifically required to be submitted with the compliance certification in the applicable requirement or Part 70 permit condition.

- Please indicate the method(s) that you use for determining compliance. Indicate the frequency of monitoring and indicate the source test reference method, if applicable.

Maintain monthly records of solvent purchase and usage, as well as records of solvent that is recycled or disposed of properly.

- Yes No Are you currently in compliance as indicated by the most recent monitoring measurements or observation as described above?
- Please indicate if compliance during the reporting period was continuous or intermittent:
 - Continuous – All monitoring measurements show compliance with the Part 70 permit condition.
 - Intermittent – One or more measurements indicate a failure to meet the Part 70 permit condition.
- Yes No During the time period covered under this compliance certification, does the monitoring data indicate any excursions, if applicable? An *excursion* is defined as “a departure from an indicator or surrogate parameter range established for monitoring under the applicable requirement or Part 70 permit condition, consistent with any averaging period specified for averaging the results of the monitoring.”

Ventura County Air Pollution Control District
COMPLIANCE CERTIFICATION PERMIT FORM
Applicable Requirement or Part 70 Permit Condition Attachment
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5. Yes No During the time period covered by this compliance certification, does the monitoring data indicate any exceedance, if applicable? An *exceedance* is defined as "a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring."
6. Yes No During the time period covered by this compliance certification, do you have any other information or data that indicates that you are not in compliance?
7. If you answered "yes" to Question Nos. 4, 5, or 6 above, please identify all instances of excursions, exceedances, or other indications of non-compliance during the certification period. Attach all relevant information to this form. You may reference deviation reports, by data and subject, previously submitted to the District.
8. If this applicable requirement or Part 70 permit condition requires a source test to demonstrate compliance with a quantifiable emission rate, attach a summary of the most recent source test to this form; or complete and attach Form TVPF47, the quantifiable applicable requirement or Part 70 permit condition attachment.

Time Period Covered by Compliance Certification:

4 / 1 / 09 (MM/DD/YY) to 3 / 31 / 10 (MM/DD/YY)

Attachment PO1267PC1
Usage Log for Solvent Cleaning

Material Name	Material ID	Manufacturer	Date of MSDS	Size [oz]	Quantity Used	ROC Content [lb/gal]	ROC [lb]	
Aerosol Penetrating Oil		Kano Labs	3/30/2001	10	0	5.01	0.00	
Aerosol Surface Cleaner	M715	Gunk	1/12/2006	14	36	3.67	14.45	
Aerosol paint remover	7764T21	Diversified Brands	8/17/1998	15	2	2.31	0.54	
Annual Total ROC [lb]							14.99	
Rule 23 ROC limit [lb]							200	

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