The Gas Company

A Sempra Energy utility®

Southern California
Gas Company
1171 More Ranch Road
Goleta CA 93117

Mailing Address
PO Box 818
Goleta, CA 93116-0818

Andrew Longworth
alongworth@semprautilities.com
Desk: 805.681.8072

February 27, 2014

Mr. David Van Mullem
Air Polution Control Officer
County of Santa Barbara
Air Pollution Control District
260 North San Antonio Road, Suite A
Santa Barbara, CA. 93110-1315

Hand Delivery

Subject: **Annual Compliance Certification and Monitoring Data Report**
Southern California Gas Company, La Goleta Plant,
Part 70/APCD Permit No. 9584-R4, ATCs 13699 & 14159
FID #1734, SSID #5019

Dear Mr. Van Mullem

Pursuant to the requirements of Part 70/APCD Permit to Operate 9584-R4 and ATCs #13699 and 14159, enclosed with this letter are the compliance certifications and monitoring data report for Southern California Gas Company's La Goleta Plant for the period Janauary 1, 2014, through December 31, 2014. The report consists of the following:

- Certification Reports (SBCAPCD Form 1302-K1, K2, etc.) [Tab 1]
- Compliance Certification Report for 9584-R4 and ATCs 13699 and 14159 (SBCAPCD Form A, Jan - Dec) [Tab 2]
- Annual Reporting Requirements for SoCalGas of its Monitoring Data Summary [Tab 5]
- Monitoring Data [Tabs 6 – 33]
- Summary of Permit Deviations (SBCAPCD Form B, Jan – Dec [Tab 30]
- Summary of Breakdowns and Variances [Tab 31]

The information submitted in the enclosed report fully addresses the applicable requirements of PTO No. 9584-R4, ATC 13699, ATC 14159, and is in the format required by the District.

Should there be any questions or a need for additional information, please contact me at 805.681.8072 or cell 805.617.5501.

Sincerely,

Andrew Longworth
Principal Environmental Specialist

Enclosures

Copy of Part 70 Report Submittal Letter to USEPA
Annual Compliance Certification and Monitoring Reports

cc: B Ellenberger, SBAPCD (w/o attachments)
C. Strommen, SBAPCD (w/o attachments)
D Freund SoCalGas, (w/o attachments)
E Wiegman, SoCalGas (w/o attachments)
USEPA (w/o attachments)

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February 27, 2014

Mr. Gerardo Rios
Chief (AIRS-3)
USEPA, Region IX
75 Hawthorne St.
San Francisco, CA. 94105

Certified Return reciept

Subject: **Calendar Year 2014 Annual Compliance Certification Report**
Southern California Gas Company, La Goleta Plant,
Part 70/APCD Permit to Operate 9584-R4, ATCs 13699 & 14159
FID: 01734 SSID: 05019

Dear Mr. Rios:

Pursuant to Standard Administrative Conditions 9.A.10 of Part 70/APCD Permit to Operate 9584-R4, issued June 29, 2012 and ATC-13699 issued October 5, 2011 and ATC-14159 issued November 19, 2013, to Southern California Gas Company (The Gas Company) for its La Goleta Plant, enclosed is the Compliance Certification Report for January 1st to December 31st calendar year 2014. The report contains all compliance information, summarized in Santa Barbara County Air Pollution Control District - approved forms, and written certification statements from the responsible official. A copy of the submittal letter of this report to the Santa Barbara County Air Pollution Control District is also enclosed.

Should there be any questions or a need for additional information, please contact me at 805.681.8072 or cell 805.617.5501.

Sincerely,

Andrew Longworth
Principal Environmental Specialist.

Enclosures
Copy of Part 70 Report Submittal Letter to SBCAPCD
Certification Report (SBCAPCD Forms 1302- I 1, I 2, K1,K2)
Compliance Reports (SBCAPCD Forms A and B)

Cc w/o attachments:
D. Van Mullem, APCO, SBAPCD
D. Freund, SoCalGas
E. Wiegman, SoCalGas

CERTIFICATION REPORT
(Form 1302-K1)

APCD: Santa Barbara County Air Pollution Control District	➢ APCD USE ONLY ➤ APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Plant

I. SOURCE INFORMATION

1. Company Name: Southern California Gas Company
2. Source Name (if different than Company Name): La Goleta Plant
3. Mailing Address: PO Box 818, Goleta CA 93116
4. Street Address of Source Location: 1171 More Road, Goleta CA 93117
5. Source Permit Number: Part 70 PTO 9584-R4, PTO 13699, ATC 14287 and ATC 14159

II. GENERAL INFORMATION

1. Reporting period (specify dates): January – December 2014
2. Due date for submittal of report: March 1st, 2015

3. Type of submittal:
   - [X] Monitoring Report (complete Section III below)
   - [ ] Compliance Schedule Progress Report (complete Section IV of Form 1302-K2)
   - [X] Compliance Certification (complete Section V of Form 1302-K2)

III. MONITORING REPORT INFORMATION

1. Were deviations from monitoring requirements encountered during the reporting period?

   [] No [X] Yes (If Yes, complete Form 1302-L)

CERTIFICATION REPORT
(Form 1302-K2)

APCD:	➢ APCD USE ONLY ➤
Santa Barbara County Air Pollution Control District	APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Plant

IV. COMPLIANCE SCHEDULE PROGRESS INFORMATION

1. Dates the activities, milestones, or compliance required by schedule of compliance was achieved/will be achieved:

2. Provide explanation of why any dates in schedule of compliance were not/will not be met:

3. Describe in chronological order preventive or corrective action taken:

V. COMPLIANCE CERTIFICATION

1. Was source in compliance during the reporting period specified in Section II of Form 1302-K1 and is source currently in compliance with all applicable federal requirements and permit conditions?

   [ ] Yes [X] No (If no, re-submit Forms 1302-I and 1302-J)

I certify based on information and belief formed after reasonable inquiry, the statement and information in this document and supplements are true, accurate, and complete.

EA Wiegman 2/27/2015

Signature of Responsible Official Date

Edward Wiegman

Print Name of Responsible Official

Storage Operations Manager

Title of Responsible Official and Company Name

Telephone Number of Responsible Official: (805) 681-8068

DEVIATION REPORT
(FORM 1302-L)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: Sempra Energy	SOURCE NAME: Southern California Gas Co. – La Goleta Station

I. DEVIATION INFORMATION

1. **Permit number(s) of emission unit or control unit affected:**
   IC Engine: Gas Compressors #s 2 – 8
   (District IDs 1199, 1200, 1201, 1202, 1203, 1204, and 1205)
2. **Description of deviation:**
   Goleta missed a semiannual monitoring test which measures the total sulfur content and H_2S content of the natural gas that fuels Gas Compressors #2 - 8 as required by condition 9.C.1.c.iii.C.
3. **Description and identification of permit condition(s) deviated:**
   PTO 9584-R4 condition 9.C.1.c.iii.C is a general monitoring requirement for testing the total sulfur content and H_2S of the fuel for Gas Compressors #2 - 8. The permit condition requires the measurement of these components of the fuel using approved ASTM or ARB test methods.
4. **Associated equipment and equipment operation (if any):**
   Not applicable.
5. **Date and time when deviation was discovered:**
   This deviation was discovered on February 23, 2015 during an internal audit of Compliance Year 2014 environmental documents.
6. **Date, time and duration of deviations:**
   The second semiannual fuel heating value monitoring test was not performed in Compliance Year 2014.
7. **Probable cause of deviation:**
   The second semiannual testing was not performed due to a lapse in scheduling the test.
8. **Preventive or corrective action taken:**
   Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring.

Note:

Note: Excess emissions, if any, should also be noted under Item #3 above. If excess emissions are less than or equal than one pound per day, then a minor emissions violation (MIN) may apply if all 11 criterion in APCD Policy and Procedure 3100.VII.A.7 1999 are satisfied. The operator must provide the required documentation to be eligible for a MIN within seven days of detection of the violation.

DEVIATION REPORT
(FORM 1302-L)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: Sempra Energy	SOURCE NAME: Southern California Gas Co. – La Goleta Station

I. DEVIATION INFORMATION

1. **Permit number(s) of emission unit or control unit affected:**
   IC Engine: Gas Compressors #s 2 – 8
   (District IDs 1199, 1200, 1201, 1202, 1203, 1204, and 1205)
2. **Description of deviation:**
   Goleta missed a semiannual monitoring test which measures the gross heating value of the natural gas that fuels Gas Compressors #2 - 8 as required by condition 9.C.1.c.iii.B.
3. **Description and identification of permit condition(s) deviated:**
   PTO 9584-R4 condition 9.C.1.c.iii.B is a general monitoring requirement for testing the heating value of the fuel for Gas Compressors #2 - 8. The permit condition requires the measurement of the gross heating value of the fuel using approved ASTM or ARB test methods.
4. **Associated equipment and equipment operation (if any):**
   Not applicable.
5. **Date and time when deviation was discovered:**
   This deviation was discovered on February 23, 2015 during an internal audit of Compliance Year 2014 environmental documents.
6. **Date, time and duration of deviations:**
   The second semiannual fuel heating value monitoring test was not performed in Compliance Year 2014.
7. **Probable cause of deviation:**
   The second semiannual testing was not performed due to a lapse in scheduling the test.
8. **Preventive or corrective action taken:**
   Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring.

Note:

Note: Excess emissions, if any, should also be noted under Item #3 above. If excess emissions are less than or equal than one pound per day, then a minor emissions violation (MIN) may apply if all 11 criterion in APCD Policy and Procedure 3100.VII.A.7 1999 are satisfied. The operator must provide the required documentation to be eligible for a MIN within seven days of detection of the violation.

DEVIATION REPORT
(FORM 1302-L)

APCD: Santa Barbara County Air Pollution Control District	APCD USE ONLY APCD IDS Processing ID:
COMPANY NAME: Sempra Energy	SOURCE NAME: Southern California Gas Co. – La Goleta Station

I. DEVIATION INFORMATION

1. **Permit number(s) of emission unit or control unit affected:**
   Flares (District IDs 1211 and 1212)
1. **Description of deviation:**
   Goleta missed a semiannual monitoring test which measures the total sulfur content of the gaseous fuel for the flares (IDs 1211 and 1212) as required by condition 9.C.5.c.ii.
2. **Description and identification of permit condition(s) deviated:**
   PTO 9584-R4 condition 9.C.5.c.ii is a general monitoring requirement for testing the total sulfur content of the gaseous fuel for the flares. The permit condition requires the measurement of these components of the fuel using methods listed in Rule 359.E.
3. **Associated equipment and equipment operation (if any):**
   The flares serve the Glycol unit.
4. **Date and time when deviation was discovered:**
   This deviation was discovered on February 23, 2015 during an internal audit of Compliance Year 2014 environmental documents.
5. **Date, time and duration of deviations:**
   The second semiannual total sulfur content monitoring test was not performed in Compliance Year 2014.
6. **Probable cause of deviation:**
   The second semiannual testing was not performed due to a lapse in scheduling the test.
7. **Preventive or corrective action taken:**
   Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring.

Note:

Note: Excess emissions, if any, should also be noted under Item #3 above. If excess emissions are less than or equal than one pound per day, then a minor emissions violation (MIN) may apply if all 11 criterion in APCD Policy and Procedure 3100.VII.A.7 1999 are satisfied. The operator must provide the required documentation to be eligible for a MIN within seven days of detection of the violation.

COMPLIANCE PLAN
(Form 1302-I1)

APCD: Santa Barbara County Air Pollution Control District	➢ APCD USE ONLY ➤ APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Station

I. PROCEDURE FOR USING FORM 1302-I

This form shall be submitted as part of the SBCAPCD's Regulation XIII Application. The Responsible Official shall identify the applicable federal requirement(s) to which the source is subject. In the Compliance Plan (Form 1302-I), a Responsible Official shall identify whether the source identified in the SBCAPCD's Regulation XIII Application currently operates in compliance with all applicable federal requirements.

II. APPLICABLE FEDERAL REQUIREMENTS

Applicable Federal Requirement[1]		Affected Emission Unit	In compliance?	Effective
Regulatory Reference[2]	Regulation Title[2]		(yes/no/exempt[3])	Date[4]
APCD Rule 101	Compliance by Existing Installations	All emission units	Yes	May 18, 1981
APCD Rule 102	Definitions	All emission units	Yes	May 4, 2012
APCD Rule 103	Severability	All emission units	Yes	May 18, 1981
APCD Rule 201	Permits Required	All emission units	Yes	May 5, 1982
APCD Rule 202	Exemptions to Rule 201	Applicable emission units, as listed in Part 70 renewal	Yes	May 5, 1982
APCD Rule 203	Transfer	All emission units	Yes	May 18, 1981
APCD Rule 205	Standards for Granting Permits	All emission units	Yes	May 5, 1982
APCD Rule 206	Conditional Approval of Authority to Construct or Permit to Operate	All emission units	Yes	May 18, 1981
APCD Rule 212	Emission Statements	All emission units	Yes	May 26, 2004
APCD Rule 301	Circumvention	All emission units	Yes	May 18, 1981
APCD Rule 302	Visible Emissions	All emission units	Yes	May 18, 1981
APCD Rule 303	Nuisance	All emission units	Yes	May 31, 1972
APCD Rule 305	PM Concentration - South Zone	Each PM source	Yes	May 18, 1981
APCD Rule 309	Specific Contaminants	All emission units	Yes	May 18, 1981
APCD Rule 311	Sulfur Content of Fuel	All combustion units	Yes	May 18, 1981
APCD Rule 317	Organic Solvents	Emission units using solvents	Yes	May 18, 1981
APCD Rule 321	Solvent Cleaning Machines and Solvent Cleaning	Emission units using solvents	Yes	January 30, 2014

COMPLIANCE PLAN
(Form 1302-I2)

Applicable Federal Requirement[1]		Affected Emission Unit	In compliance?	Effective
Regulatory Reference[2]	Regulation Title[2]		(yes/no/exempt[3])	Date[4]
APCD Rule 324	Disposal and Evaporation of Solvents	Emission units using solvents	Yes	May 18, 1981
APCD Rule 326	Storage of Reactive Organic Compound Liquids.	Tanks, Sumps, Vessels.	Yes	July 8, 2002
APCD Rule 333	Control of Emissions from Reciprocating IC Engines	IC engines at the facility driving compressors and emergency fire pumps.	Yes	May 31, 2011
APCD Rule 346	Loading of Organic Liquids	Loading rack at the facility.	Yes	October 29, 2002
APCD Rule 352	Natural Gas-Fired Fan-Type Central Furnaces and Small Water Heaters	New water heaters and furnaces	Yes	April 11, 2013
APCD Rule 353	Adhesives and Sealants	Emission units using adhesives and sealants	Yes	August 30, 2013
APCD Rule 359	Flares and Thermal Oxidizers	Flares.	No	May 7, 1996
APCD Rule 360	Emissions of Oxides of Nitrogen from Large Water Boilers and Small Boilers	Gas Preheaters and any new small boiler installed at the facility.	Yes	October 14, 2003
APCD Rule 361	Small Boilers, Steam Generators, and Process Heaters	Hot Oil Heaters.	Yes	May 31, 2011
APCD Rule 505	Breakdown Conditions	All emission units	Yes	May 18, 1981
APCD Rule 603	Emergency Episode Plans	Stationary sources with PTE greater than 100 tpy	Yes	June 21, 1982
APCD Rule 1301	Part 70 Operating Permits	All emission units	Yes	November 26, 1997
40 CFR Parts 51/52	New Source Review	All Emission units	Yes	November 25, 1971
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for	Internal combustion Engines 2-9, Firewater pump engines 4A and 5A,	Yes	January 30, 2013

1 Review APCD SIP Rules, NSPS, NESHAPS, and MACTs .

2 Regulatory Reference is the abbreviated citation (e.g. 40 CFR 60 Subpart OOO, APCD Rule 325.H) and Title is the prosaic title (e.g. NSPS Standards of Performance for Nonmetallic Mineral Processing Plants, Crude Oil Production and Separation, Inspection)

3 If exempt from applicable federal requirement, include explanation for exemption.

4 Indicate the date during the permit term that the applicable federal requirement will become effective for the emission unit.

*** If more than one page is used, please ensure that "Santa Barbara APCD", stationary source name and "Form 1302-I1" appear on each page. ***

COMPLIANCE PLAN
(Form 1302-I3)

APCD: Santa Barbara County Air Pollution Control District	➢ APCD USE ONLY ≺ APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Station

III. COMPLIANCE CERTIFICATION

Under penalty of perjury, I certify the following:

Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) with which the source is in compliance identified in form 1302-I1;

Based on information and belief formed after reasonable inquiry, the source identified in this application will comply with the future-effective applicable federal requirement(s) identified in form 1302-I1, on a timely basis[1];

Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance with the applicable federal requirement(s), identified in form 1302-I1, and I have attached a compliance plan schedule.[2]

E A Niesen 2/27/2015

Signature of Responsible Official Date

1. Unless a more detailed schedule is expressly required by the applicable federal requirement.
2. At the time of expected permit issuance, if the source expects to be out of compliance with an applicable federal requirement, the applicant is required to provide a compliance schedule with this application, with the following exception. A source which is operating under a variance that is effective for less than 90 days need not submit a Compliance Schedule. For sources operating under a variance, which is in effect for more than 90 days, the Compliance Schedule is the schedule that was approved as part of the variance granted by the hearing board.

   The compliance schedule shall contain a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with this applicable federal requirement. For sources operating under a variance, the compliance schedule is part of the variance granted by the hearing board. The compliance schedule shall resemble, and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. For sources not operating under a variance, consult the Air Pollution Control Officer regarding procedures for obtaining a compliance schedule.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J1)

APCD:	➢ APCD USE ONLY ≺
Santa Barbara County Air Pollution Control District	APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Station

I. CERTIFICATION STATUS

1. Indicate the dates the applicant intends to submit the **COMPLIANCE CERTIFICATION REPORT** to the district during the entire permit term. The district federal operating permits rule requires the applicant to submit this report at least annually.

   By due data annually

2. For sources required to have a schedule of compliance to remedy a violation, indicate the dates the applicant intends to submit **CERTIFIED PROGRESS REPORTS** to the district during the permit term. The district federal operating permits rule requires the applicant to submit this report at least semiannually.

   Not applicable

3. Describe the compliance status of the source with respect to applicable enhanced monitoring, and compliance certification requirements of Section 114(a)(3) of the Clean Air Act:

   Not applicable

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J2)

APCD:	➢ APCD USE ONLY ≺
Santa Barbara County Air Pollution Control District	APCD IDS Processing ID:
COMPANY NAME: Southern California Gas Company	SOURCE NAME: La Goleta Station

II. CERTIFICATION INFORMATION

EMISSION UNIT: **Internal Combustion Engines - District ID #1199-#1205 (Plant ID #2-#8)**

Applicable Federal Requirement & its Title: 40 CFR 63 Subpart ZZZZ, RICE MACT

Method	Description or Reference Method
Monitoring	The equipment permitted herein is subject to the following monitoring requirements: (i) Limits Exceedance — Any District-certified IC engine source test result which indicates the applicable Rule 333 emission limits or NSR permit-specified limits have been exceeded shall constitute a violation of this permit. (ii) Compliance Assurance Monitoring: SoCalGas shall implement the following CAM required monitoring: A. Monitor all compliance assurance indicators for the engines in conformance with the requirements listed in the CAM Plan. B. Log any excursions of each indicator from its limits that are set forth in the latest CAM Plan. C. Log all periods of monitor shutdowns, monitoring malfunctions and associated monitor repairs and any required quality assurance/quality control activity periods for the monitors (i.e., the AFRC controller and the catalyst thermocouple units) as listed in the CAM Plan [Ref: 40 CFR 64.7.(c)]. The reason for each shutdown, e.g., indicator range excursion or malfunction, shall also be listed in the log. D. Per 40 CFR 64.6.(c)(4), a minimum 90 percent data capture rate on a quarterly basis is required for each indicator. For the purposes of minimum data capture computations, any data obtained during the following periods are not included: • Routine monitor calibrations and inspections; • Sudden and infrequent monitor malfunctions beyond the operator's reasonable control [Ref: 40 CFR 64.7(c)]; and, • IC engine start-up periods. E. A Quality Improvement Plan (QIP) is triggered for any engine subject to CAM Rule, if more than one (1) percent [per 40 CFR 64.8 (a)] of valid individual data points obtained in any calendar quarter lie outside the CAM Plan established indicator ranges. SoCalGas shall immediately notify the District if a QIP has been triggered and shall develop and submit such a Plan to the District for approval as expeditiously as practicable. The QIP submitted by SoCalGas shall meet all the requirements specified for it in 40 CFR Section 64.8 [QIP Requirements], at a minimum.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J3)

Emission Unit	Internal Combustion Engines providing ERCs
Monitoring	The following monitoring requirements apply: A. Inspection and Maintenance Plan — SoCalGas shall implement all monitoring provisions of its IC Engine Inspection and Maintenance Plan approved by the District. This includes emissions monitoring of the 7 engines per District Rule 333.F.3.The inspections shall be conducted prior to any adjustments to the AFRC set points and shall consist of one (1) fifteen minute run at the previously established set point. B. Fuel Heating Value — The gross heating value of the gaseous fuel (Btu/scf) shall be measured using approved ASTM or ARB-approved test methods semi-annually. C. Fuel Sulfur Content — The total sulfur content and H2S content of the gaseous fuel burned on the property shall be determined semi-annually using approved ASTM or ARB-approved test methods. D. Operating Hours — The hours of operation each month of each engine shall be documented in a log. E. Fuel Use Metering — Fuel use for each engine shall be monitored by an in-line fuel meter. Meter design and specifications shall be approved by the District. The meters shall be calibrated per the latest District-approved Process Monitor Calibration and Maintenance Plan.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition and include information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 in addition to the material specified in Part-70/PTO 9584-R4 Condition 9.C.15. Information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 are as follows: A. The Compliance report must contain the information below: a. Company name and address. b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. c. Date of report and beginning and ending dates of the reporting period. d. If the equipment had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63 Subpart ZZZZ §63.6605(b), including actions taken to correct a malfunction. e. If there are no deviations from any emission or operating, a statement that there were no deviations from the emission or operating limitations during the reporting period.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J4)

Emission Unit	Internal Combustion Engines providing ERCs
Reporting	B. For each deviation from an emission or operating limitation that occurs for a stationary RICE where the owner or operator are not using a CMS to comply with the emission or operating limitations, the Compliance report must contain the information in Conditions 5.a.i-iv of the PTO and the information below: a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period. b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
Record Keeping	The permittee shall record and maintain the following information. This data shall be maintained for a minimum of five (5) years from the date of each entry and made available to the District upon request: (i) *Hours* — Records documenting hours of operation and days of operation for each IC engine each month. The record shall document any 60-minute start-up period required for the IC engine after it is shut-down. (ii) *Fuel Use* — Records documenting IC engine(s) monthly fuel consumption (scf/month). (iii) *Fuel Heating Value* — Records documenting the gross heating value of fuel (Btu/scf) on a semi-annual basis. (iv) *Fuel Sulfur Content* — Records documenting the total sulfur content and H2S content of the gaseous fuel on a semi-annual basis. (v) *Equipment Maintenance Data* — Records summary documenting engine/control device maintenance on an annual basis. (vi) *I&M Plan Logs* — Logs documenting the parameter settings, NOx and CO level recorded, and other values required under the *Inspection and Maintenance Plan* for each engine shall be kept on-site. (vii) *Equipment ID/Tags* — If an operator's tag number is used in lieu of an IC engine identification plate, written documentation which references the operator's unique IC engine ID number to a list containing the make, model, rated maximum continuous BHP and the corresponding RPM. (viii) *Monitor Non-operational Time* – Logs documenting all non-operational times for the AFRC controller units and the catalyst temperature measurement units including the reasons for all monitor shutdowns, as monitored per Condition 9.C.1.(c)(ii)(C) of the PTO. (ix) *Set Point Settings Data* — A record of the most current Air Fuel Ratio Controller set points and the date these were established. (x) *Engine Operation Outside Settings* — A record of any continuous engine operation outside of the indicator ranges established in the CAM Plan. All such excursions are to be flagged specifically in the CAM logs. (xi) *Maintenance Records* — Records on all maintenance performed for all equipment specified in this permit including engine time settings, engine maintenance, catalyst maintenance, and air-fuel ratio controller. (xii) *Control Equipment Parameters* — Records on catalyst (including manufacturer, model and serial numbers), engine, air-fuel ratio controller, or sensor replacement. (xiii) *CAM Plan Required Data* – A monthly summary of all compliance indicator data excursions and all monitor non-operational times, obtained pursuant to Conditions 9.C.1 (c)(ii)B and C in the PTO.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J5)

Emission Unit	Internal Combustion Engines providing ERCs
Recordkeeping	(xiv) If the owner and operator must comply with the emission and operating limitations, the owner and operator must keep the records of the following: A. A copy of each notification and report that the owner and operator submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the owner and operator submitted, according to the requirement in 40 CFR 63 Subpart ZZZZ §63.10(b)(2)(xiv). B. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) air pollution control and monitoring equipment. C. Records of performance tests and performance evaluations as required in 40 CFR 63 Subpart ZZZZ §63.10(b)(2)(viii) and §63.6655(a)(3). D. Records of all required maintenance performed on the air pollution control and monitoring equipment. E. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63 Subpart ZZZZ §63.6605(b), including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation. (xv) The owner and operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the owner and operator operated and maintained the stationary RICE according to the maintenance plan.
Test Methods	Measure: CARB 1-100 for O2; CARB 1-100, or USEPA Method 7E and 10 for NOx and CO respectively; USEPA Method 18 for ROC

EMISSION UNIT: **Internal combustion units - District IDs #1206, #1221, #1222, #8665, #8666, #8668 (Plant ID #9, #4A, #5A, #12A, #13A, Emergency Generator)**

Applicable Federal Requirement & its Title: 40 CFR 63 Subpart ZZZZ, RICE MACT

Method	Description of Reference Method
Monitoring	The following source testing and monitoring conditions apply: (i) *Limits Exceedance* — Any District-certified IC engine source test result which indicates the applicable Rule 333 emission limits or NSR permit-specified limits (as specified in Table 5.1-3 of the PTO) have been exceeded shall constitute a violation of this permit. (ii) *I&M Plan* — SoCalGas shall implement all monitoring provisions of its *IC Engine I&M Plan* approved by the District. (iii) *Fuel Heating Value* — The gross heating value of the gaseous fuel (Btu/scf) shall be measured using approved ASTM or ARB-approved test methods annually. (iv) *Fuel Sulfur Content* — The total sulfur content and H_2S content of the gaseous fuel burned on the property shall be analyzed and determined annually using approved ASTM or ARB-approved test methods. (v) *Operating Hours* — The hours of operation each month of each engine, including the IC engines exempt from permitting, shall be documented in a log. The log shall be made available for inspection upon request. (vi) *Fuel Use Metering*— Fuel use for the engine with plant ID #9 shall be monitored by an in-line fuel meter. Meter design and specifications shall be approved by the District. The meters shall be calibrated per the latest District-approved *Process Monitor Calibration and Maintenance Plan.*

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J6)

Emission Unit	Internal combustion units not providing ERCs
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit and include information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 in addition to the material specified in Part-70/PTO 9584-R4 Condition 9.C.15. Information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 are as follows: A. The Compliance report must contain the information below: a. Company name and address. b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. c. Date of report and beginning and ending dates of the reporting period. d. If the equipment had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63 Subpart ZZZZ §63.6605(b), including actions taken to correct a malfunction. e. If there are no deviations from any emission or operating, a statement that there were no deviations from the emission or operating limitations during the reporting period. B. For each deviation from an emission or operating limitation that occurs for a stationary RICE where the owner or operator are not using a CMS to comply with the emission or operating limitations, the Compliance report must contain the information in Conditions 5.a.i-iv and the information below: a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period. b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken. C. For emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year (Firewater Pumps- Device IDs #008666 and #008668; Emergency Generator-Device ID #008665), for the purposes specified in 40 CFR 63 Subpart ZZZZ §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), the owner or operator must submit an annual report containing the following information: a. Company name and address where the engine is located. b. Date of the report and beginning and ending dates of the reporting period. c. Engine site rating and model year. d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. e. Hours operated by type of operation (maintenance, testing, emergency, non-emergency, etc.), including the date, start time, and end time for engine operation. The report shall also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine, as applicable. f. Number of hours the engine is contractually obligated to be available. g. If there were no deviations from the fuel requirements that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period. h. If there were deviations from the fuel requirements that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J7)

Emission Unit	Internal combustion units not providing ERCs
Record Keeping	SoCalGas shall keep the required logs, as applicable to this permit, which demonstrate compliance with emission limits, operation limits and monitoring requirements listed in the PTO. All logs shall be available to the District upon request. Written information (logs) shall include: (i) *Hours* — Records documenting individual IC engine operating hours each month. (ii) *Fuel Use* — Records documenting IC engine Plant ID # 9 monthly fuel consumption (scf/month). (iii) *Fuel Heating Value* — Records documenting the gross heating value of fuel (Btu/scf) on an annual basis. (iv) *Fuel Sulfur Content* — Records documenting the total sulfur content and H2S content of the gaseous fuel on an annual basis. (v) *Equipment Maintenance Data* — Records summary documenting engine/control device maintenance on an annual basis. (vi) *I&M Plan Logs* — Logs documenting the parameter settings, NOx and CO level recorded, and other values required under the *Inspection and Maintenance Plan* for the engine shall be kept on-site. (vii) *Equipment ID/Tags* — If an operator's tag number is used in lieu of an IC engine identification plate, written documentation which references the operator's unique IC engine ID number to a list containing the make, model, rated maximum continuous BHP and the corresponding RPM. (viii) If the owner and operator must comply with the emission and operating limitations, the owner and operator must keep the records of the following: 1. A copy of each notification and report that the owner and operator submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that the owner and operator submitted, according to the requirement in 40 CFR 63 Subpart ZZZZ §63.10(b)(2)(xiv). 2. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) air pollution control and monitoring equipment. 3. Records of performance tests and performance evaluations as required in 40 CFR 63 Subpart ZZZZ §63.10(b)(2)(viii) and §63.6655(a)(3). 4. Records of all required maintenance performed on the air pollution control and monitoring equipment. 5. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63 Subpart ZZZZ §63.6605(b), including corrective actions to restore malfunctioning process equipment to its normal or usual manner of operation. (ix) The owner and operator must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the owner and operator operated and maintained the stationary RICE according to the maintenance plan.

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J8)

Emission Unit	**Internal combustion units not providing ERCs**
Record Keeping	(x) For the Firewater Pumps (Device IDs #008666 and #008668) and Emergency Generator (Device ID #008665), the owner or operator shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes. (xi) For the Firewater Pumps (Device IDs #008666 and #008668), the owner or operator must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
Test Methods	IC engine #9: CARB 1-100 for O_2; CARB 1-100, or USEPA Method 7E and 10 for NO_x and CO respectively; USEPA Method 18 for ROC Emergency and firewater pumps: ASTM Method; Measure

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J9)

EMISSION UNIT: **Micro Turbines - District ID#107543-107546**

Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	The permitted equipment is subject to the following monitoring requirements: (i) *Fuel Usage Metering*. The permittee shall install and operate a dedicated, temperature and pressure-corrected, totalizing, non-resettable type fuel meter, to measure the amount of natural gas used. (ii) *Heating Value Data*. On an annual basis maintain record of the heat content (HHV) basis of the fuel gas in units of Btu/scf. (iii) *Fuel Gas Sulfur Data*. The permittee shall measure the total sulfur and H_2S content of the fuel gas annually in accordance with EPA Methods 15/16/16A. (iv) *Source Testing*. When requested in writing by the District the permittee shall source test the C60 micro-turbines to demonstrate compliance with Condition 9.C.3 (a) in the PTO. Pollutants and process parameters that are to be monitored when the micro-turbines are source tested are provided in the PTO.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.
Record Keeping	The following records shall be maintained by the permittee and shall be made available to the District upon request: (i) *Fuel Gas Use*. The total amount of PUC quality natural gas used between the four Capstone C60 micro-turbines shall be recorded on a monthly, quarterly, and annual basis in units of standard cubic feet and million Btus. (ii) *Heat Content*. Record the annual heating value results of the fuel gas. (iii) *Operational Days*. For each month, the number of days each micro-turbine operated. (iv) *Sulfur Content*. The annual measured total sulfur and H_2S content, both in units of ppmvd, of the fuel gas burned in the micro-turbines.
Test Methods	Turbine Exhaust: NO_x — EPA Method 7E, ARB 1-100 ROC — EPA Method 18 CO — EPA Method 10, ARB 1-100 Sampling Point Deter. — EPA Method 1 Stack Gas Flow Rate — EPA Method 2 or 19 O_2 — EPA Method 3 Moisture Content — EPA Method 4 Fuel Gas: Higher Heating Value — ASTM D 3588-88 Total Sulfur Content[(d)] — EPA 15/16/16A

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J10)

EMISSION UNIT: **Process Heaters -**
District ID #001214, 107535, 113985, 113987

Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	The equipment permitted herein is subject to the following monitoring requirements: (i) *Default Rating Method.* The volume of natural gas used (in units of standard cubic feet) shall be reported as permitted annual heat input limit for the unit (Btu/year) divided by the District-approved heating value of the fuel (Btu/scf). (ii) *Fuel Use Meter.* The volume of fuel gas (in units of standard cubic feet) used in device IDs 113985 and 113987 shall be measured through the use of a dedicated District-approved fuel meter. Each heater is equipped with its own fuel meter. The meters shall be temperature and pressure corrected. The fuel meters shall be accurate to within five percent (5%) of the full scale reading. The meters shall be calibrated according to manufacturer's specifications and/or SoCal Gas Company procedures, and the calibration records shall be made available to the District upon request. (iii) *Existing Units Rated Between 2.000 - 5.000 MMBtu/hr.* These units are not subject to tuning or source testing requirements. (iv) *Units Rated at 2.000 MMBtu/hr or Below.* Any unit manufactured after October 17, 2003 shall be tuned once every 12 months following the manufacturer's recommended tuning procedure or by an alternative tuning procedure approved by the District.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.
Record Keeping	The permittee shall record and maintain the following information. This data shall be maintained for a minimum of five (5) years from the date of each entry and made available to the District upon request: (i) *Fuel Use – Device IDs 1214 and 107535.* The volume of fuel gas used each year (in units of standard cubic feet) as determined by the Default Rating Method. (ii) *Fuel Use – Device IDs 113985 and 113987.* The volume of fuel gas used each year (in units of standard cubic feet) as determined by the fuel meters. (iii) *Fuel Use Meter Calibration Records.* Calibration records of District-approved fuel use meters. (iv) *Tuning Records.* For units subject to Rule 360, maintain documentation verifying the required tune-ups, including a complete copy of each tune-up report. (v) *Maintenance Logs.* Maintenance logs for the unit(s) and fuel meter (as applicable).
Test Methods	None

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J11)

EMISSION UNIT: **Flares - District ID #1211, 1212, 1215, 104915, 113418, 104916, 107706**

Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	The following monitoring conditions apply to the flare equipment items: (i) *Heating Value:* The heating value of the 'gaseous fuel' (Btu/scf) shall be analyzed annually using the ASTM methods listed in Rule 359.E (test methods). (ii) *Fuel Sulfur Content:* For flare unit 1215, 'gaseous fuel' sulfur content (H_2S and TRS) must be measured annually using the ASTM methods listed in Rule 359.E (test methods). For flare units 1211 and 1212, the total sulfur content in 'gaseous fuel' shall be measured semi-annually using the Rule 359.E listed methods. (iii) *Purge Gas Sulfur Content:* The purge gas sulfur content must be measured annually using Rule 359.E-listed ASTM methods, if such gas is not PUC quality natural gas or an inert gas. (iv) *Media Bed Changes:* SoCalGas shall maintain purchase records documenting the type of material purchased for the SULFATREAT units and the CEI-KMN units.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.
Record Keeping	SoCalGas shall keep the required logs, as applicable to this permit, which demonstrate compliance with emission limits, operation limits and monitoring requirements in the PTO. All logs shall be available to the District upon request. Written information (logs) shall include: (i) *Heating Value*: Annual records documenting the higher heating value of the 'gaseous fuel.' Such documents shall be the results of the laboratory analyses using ASTM test methods prescribed in Rule 359.E. (ii) *Fuel Sulfur Content:* Records documenting annually the 'gaseous fuel' sulfur content as measured periodically, and, if applicable, the purge gas sulfur content for each flare unit. (iii) *Media Bed Change:* Records documenting any media bed changes for the SULFATREAT units and the CEI-KMN units. The records shall include the dates and times of each change-out, the quantity of material replaced, and the type of material placed in the unit.
Test Methods	None

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J12)

EMISSION UNIT: **Fugitive Hydrocarbon Emissions Components - District ID # 100882-100886**

Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	SoCalGas shall track the component leak path (clp) counts for all categories of components at the natural gas production facility that are listed in Table 5.1-2 in the PTO and log any clp count changes, including de minimis changes, in a clp inventory maintained by the natural gas production facility.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.
Record Keeping	SoCalGas shall keep a log of the changes in fugitive emissions component count and the associated emissions changes summarized on a quarterly basis. All inspection and/or repair records shall be retained at the plant for a minimum of five years. In addition SoCalGas shall maintain the following records: 1. *Carbon Canister Change:* Records documenting carbon replacement for the canister serving the odorant system. The records shall include the dates of each change-out, the quantity of material replaced, and the type of material placed in the unit.
Test Methods	None

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J13)

EMISSION UNIT: **Hydrocarbon Liquid Storage Tanks – District ID #1217-1220, 100899, 100901, 100910**

Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	The following monitoring conditions apply: (i) *Hydrocarbon Liquid (Condensate) Volume*: The volume of hydrocarbon liquid (condensate) produced annually shall be monitored by noting the volume (in gallons) flowing out of the hydrocarbon liquid storage tank (ID # 1217) into trucks on a monthly basis. (ii) *API Gravity & True Vapor Pressure Of Stored HC* — The API gravity and the true vapor pressure at 67.2 degrees F of the stored hydrocarbon liquid in each storage tank (ID # 1219, 1220 and 1217) shall be determined annually. Alternately, the Reid vapor pressure of the stored condensate may be measured by the ASTM D 323 Standard Method and the true vapor pressure calculated by API Bulletin 2517, or equivalent District-approved Reid/True vapor pressure correlation. The actual temperature of the stored hydrocarbon liquid shall be measured each time a sample is taken for API gravity and TVP analysis. Note: The API gravity and TVP analysis for the HC Condensate Storage tank may be used as representative values for all three tanks instead of sampling from each tank individually.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.
Record Keeping	SoCalGas shall keep the required logs, as applicable to this permit, which demonstrate compliance with emission limits, operation limits and monitoring requirements listed in the PTO. All logs shall be available to the District upon request. Written information (logs) shall include: (i) *Hydrocarbon Liquid (Condensate) Volume*: The volume of hydrocarbon liquid produced annually shall be recorded (ii) *API Gravity & True Vapor Pressure Of Stored HC* — The API gravity, the true vapor pressure at 67.2 degrees F, and the actual storage temperature of the stored hydrocarbon liquid in each storage tank (ID # 1219, 1220 and 1217) shall be recorded annually. (iii) *Maintenance Records* — Records of maintenance performed per Sections B.3 and B.5 of Rule 326. These records contain, at a minimum, the following: A. *Tank Identification*: Tank identification type of vapor controls used, and initials of personnel performing maintenance. B. *Maintenance Performed*: Description of maintenance procedure performed. C. *Estimated Excess Emissions*: Excess emissions caused by maintenance and how determined. D. *Maintenance Dates & Times*: Times and dates of maintenance procedure.
Test Methods	None

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J14)

EMISSION UNIT: **Loading Station - District ID # 8669** Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	SoCalGas shall monitor, via a log or a shipping invoices document, the daily and total annual volumes of hydrocarbon condensate shipment from the truck loading station.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.
Record Keeping	SoCalGas shall record the daily and total annual volumes (in gallons) of HC condensate shipment from the loading station, in a log kept on-site. When vacuum trucks are used to empty the condensate tanks, the log shall include the operator's initials, date of loading operation, and the destination of the condensate. If vacuum trucks are not used to empty the condensate tanks, the log shall include the operator's initials, date of loading operation, transfer temperature, and method of determining throughput for each loading operation.
Test Methods	None

EMISSION UNIT: **Wells – District ID # 8670,100903** Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	On an annual basis, SoCalGas shall (i) measure the reactive organic compound (ROC) content of the vented gas, using gas-liquid chromatography analysis, and the gas total sulfur (TRS) content, and (ii) annually record the computed volume of vented reservoir gas from each pipeline depressurization event.
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.
Record Keeping	SoCalGas shall record the following: (i) The computed volume of gas (in units of scf) vented annually to the atmosphere resulting from all pipeline depressurizations; and the ROC and TRS content (by weight percent) of this gas. (ii) The dates and volumes of venting attributed to emergency events, and documentation of each emergency.
Test Methods	None

COMPLIANCE PLAN CERTIFICATION
(Form 1302-J15)

EMISSION UNIT: **Solvent Usage – District ID # 8680** Federal Requirement & its Title:

Method	Description or Reference Method
Monitoring	None
Reporting	On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the *Semi-Annual Compliance Verification Reports* condition of this permit.
Record Keeping	SoCalGas shall record in a log the following on a monthly basis for each solvent used: amount used; the percentage of ROC by weight (as applied); the solvent density; the amount of solvent reclaimed for District-approved disposal; whether the solvent is photochemically reactive; and, the resulting emissions to the atmosphere in units of pounds per month and pounds per day. Product sheets (MSDS or equivalent) detailing the constituents of all solvents shall be readily available.
Test Methods	None

***** If more than one page is used, please ensure that "Santa Barbara APCD", source name and "Form 1302-J2" appear on each page. *****

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.1.(a). The permittee shall comply with all permit conditions.	C	N/A	Facility	No			
9.A.1.(b). This permit does not convey property rights or exclusive privilege of any sort.	C	N/A	Facility	No			
9.A.1.(c). Noncompliance with any permit conditions is grounds for permit termination, revocation and re-issuance, modification, enforcement action, or for denial of permit renewal. Any permit non-compliance constitutes a violation of the Clean Air Act and its implementing regulations or of District Rules or both, as applicable.	C	N/A	Facility	No			
9.A.1.(d). The permittee shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for noncompliance with any permit condition.	C	N/A	Facility	No			
9.A.1.(e). A pending permit action or notification of anticipated noncompliance does not stay any permit condition.	C	N/A	Facility	No			
9.A.1.(f). Within a reasonable time period, the permittee shall furnish any information requested by the Control Officer, in writing, for the purpose of determining: (i) compliance with the permit, or (ii) whether or not cause exists to modify, revoke and reissue, or terminate a permit or for an enforcement action.	C	N/A	Facility	No			
9.A.1.(g). (g) In the event that any condition herein is determined to be in conflict with any other condition contained herein, then if principles of law do not provide to the contrary, the condition most protective of air quality and public health and safety shall prevail. [Re: 40 CFR Part 70.6.(a)(6)(iii), District Rules 102, 1303.D.1.j, 1303.D.1.n, 1303.D.1.l, 1303.D.1.k, 1303.D.1.o] .	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.2. Emergency Provisions. The permittee shall comply with the requirements of the District, Rule 505 (Upset/Breakdown rule) and/or District Rule 1303.F, whichever is applicable to the emergency situation. In order to maintain an affirmative defense under Rule 1303.F, the permittee shall provide the District, in writing, a "notice of emergency" within 2 working days of the emergency. The notice of emergency shall contain the information/documentation listed in Sections (1) through (5) of Rule 1303.F. [Re: District Rule 1303.F].	C	N/A	Facility	No			
9.A.3. Compliance Plan. (a) The permittee shall comply with all federally enforceable requirements that become applicable during the permit term, in a timely manner. (b) For all applicable equipment, the permittee shall implement and comply with any specific compliance plan required under any federally enforceable rules or standards. [Re: District Rule 1302.D.2]	C	N/A	Facility	No			
9.A.4. Right of Entry. The Regional Administrator of USEPA, the Control Officer, or their authorized representatives, upon the presentation of credentials, shall be permitted to enter upon the premises where a Part 70 source is located or where records must be kept: (a) To inspect the stationary source, including monitoring and control equipment, work practices, operations, and emission-related activity; (b) To inspect and duplicate, at reasonable times, records required by this Permit to Operate; (c) To sample substances or monitor emissions from the source or assess other parameters to assure compliance with the permit or applicable requirements, at reasonable times. Monitoring of emissions can include source testing. [Re: District Rule 1303.D.2.a]	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.5. Severability. The provisions of this Permit to Operate are severable and if any provision of this Permit to Operate is held invalid, the remainder of this Permit to Operate shall not be affected thereby. [Re: District Rules 103, 1303.D.1.i]	C	N/A	Facility	No			
9.A.6. Permit Life. The Part 70 permit shall become invalid three years from the date of issuance, unless a timely and complete renewal application is submitted to the District. Any operation of the source to which this Part 70 permit is issued beyond the expiration date of this Part 70 permit and without a valid Part 70 operating permit (or a complete Part 70 permit renewal application) shall be a violation of the CAAA, § 502(a) and 503(d) and of the District rules. The permittee shall apply for renewal of the Part 70 permit no later than 6 months before the date of the permit expiration. Upon submittal of a timely and complete renewal application, the Part 70 permit shall remain in effect until the Control Officer issues or denies the renewal application. [Re: District Rules 1304.D.1.]	C	N/A	Facility	No			
9.A.7. Payment of Fees. The permittee shall reimburse the District for all its Part 70 permit processing and compliance monitoring expenses for the stationary source on a timely basis. Failure to reimburse on a timely basis shall be a violation of this permit and of applicable requirements and can result in forfeiture of the Part 70 permit. Operation without a Part 70 permit subjects the source to potential enforcement action by the District and the USEPA pursuant to section 502(a) of the Clean Air Act. [Re: District Rules 1303.D.1.p, 1304.D.11 and 40 CFR 70.6(a)(7)]	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.8. Deviation from Permit Requirements. The permittee shall submit a written report to the District documenting each and every deviation from the requirements of this permit or any applicable federal requirements within 7 days after discovery of the violation, but not later than 180 days after the date of occurrence. The report shall clearly document 1) the probable cause and extent of the deviation 2) equipment involved, 3) the quantity of excess pollutant emissions, if any, and 4) actions taken to correct the deviation. The requirements of this condition shall not apply to deviations reported to District in accordance with Rule 505. Breakdown Conditions, or Rule 1303.F Emergency Provisions. [Re: District Rule 1303.D.1.g, 40 CFR 70.6(a)(3)(iii)(B)]	C	N/A	Facility	No			
9.A.9. Federally-enforceable Conditions. Each federally enforceable condition in this permit shall be enforceable by the USEPA and members of the public. None of the conditions in the District-only enforceable section of this permit are federally enforceable or subject to the public/USEPA review [Re: CAAA, § 502(b)(6), 40 CFR 70.6(b)]	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.10. Reporting Requirements/Compliance Certification. The permittee shall submit compliance certification reports to the USEPA annually and to the Control Officer semi-annually. These reports shall be submitted on District forms and shall identify each applicable requirement/condition of the permit, the compliance status with each requirement/condition, the monitoring methods used to determine compliance, whether the compliance was continuous or intermittent, and include detailed information on the occurrence and correction of any deviations (excluding emergency upsets) from permit requirement. The reporting periods shall be each half of the calendar year, e.g., January through June for the first half of the year. These reports shall be submitted by September 1 and March 1, respectively, each year. Supporting monitoring data shall be submitted in accordance with the "Semi-Annual Compliance Verification Report" condition in section 9.C. The permittee shall include a written statement from the responsible official, which certifies the truth, accuracy, and completeness of the reports. [Re: District Rules 1303.D.1, 1302.D.3, 1303.2.c]	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Standard Administrative Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.11. Recordkeeping Requirements. The permittee shall maintain records of required monitoring information that include the following: (a) The date, place as defined in the permit, and time of sampling or measurements; (b) The date(s) analyses were performed; (c) The company or entity that performed the analyses; (d) The analytical techniques or methods used; (e) The results of such analyses; and (f) The operating conditions as existing at the time of sampling or measurement; The records (electronic or hard copy), as well as all supporting information shall be maintained for a minimum of five (5) years from date of initial entry by SoCalGas and shall be made available to the District upon request. [Re: District Rule 1303.D.1.f]	C	N/A	Facility	No			
9.A.12. Conditions for Permit Reopening. The permit shall be reopened and revised for cause under any of the following circumstances::	C	N/A	Facility	No			
9.A.12.(a). Additional Requirements: If additional applicable requirements (e.g., NSPS or MACT) become applicable to the source which has an unexpired permit term of three (3) or more years, the permit shall be reopened. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. However, no such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended. All such re-openings shall be initiated only after a 30 day notice of intent to reopen the permit has been provided to the permittee, except that a shorter notice may be given in case of an emergency.	C	N/A	Facility	No			

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Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.A.12.(b). Inaccurate Permit Provisions: If the District or the USEPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms or conditions of the permit, the permit shall be reopened. Such re-openings shall be made as soon as practicable.	C	N/A	Facility	No			
9.A.12.(c)) Applicable Requirement: If the District or the USEPA determines that the permit must be revised or revoked to assure compliance with any applicable requirement including a federally enforceable requirement, the permit shall be reopened. Such re-openings shall be made as soon as practicable.	C	N/A	Facility	No			
9.A.13 Recordkeeping. All records and logs required by this permit and any applicable District, state or federal rule or regulation shall be maintained for a minimum of five calendar years from the date of information collection and log entry at the facility. These records or logs shall be readily accessible and be made available to the District upon request. [Re: District Rule 1303, 40 CFR 70.6]	C	N/A	Facility	No			

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Equipment Category:	**Generic Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.B.1. Circumvention (Rule 301). A person shall not build, erect, install, or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Division 26 (Air Resources) of the Health and Safety Code of the State of California or of these Rules and Regulations. This Rule shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code of the State of California, or of District Rule 303.	C	N/A	Facility	No			
9.B.2. Visible Emissions (Rule 302). SoCalGas shall not discharge into the atmosphere from any single source of emission any air contaminants for a period or periods aggregating more than three minutes in any one hour which is: (a) As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection B.2.(a) above. For the equipment listed below, SoCalGas shall determine compliance with this Rule as specified below: • Flares. For both of its planned and unplanned flaring, SoCalGas shall perform a USEPA Method 9 visible emission evaluation (VEE) annually. The VEE shall be for a six-minute period or the duration of the flaring event, whichever is shorter. • Diesel Fueled IC Engines. SoCalGas shall perform a USEPA Method 9 visible emission evaluation (VEE) for a six-minute period annually.	C	USEPA Method 9	Facility	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
SoCalGas staff or its contractor, certified in VEE, shall perform the VEE and maintain logs in accordance with USEPA Method 9. SoCalGas shall obtain District approval of the VEE log required by this condition. The start-time, end-time and the date of each visible emissions inspection shall be recorded in the log. All VEE sheets and records shall be maintained consistent with the recordkeeping condition of this permit. [Re: District Rule 302].	C	USEPA Method 9	Facility	No			
9.B.3. Nuisance (Rule 303). No pollutant emissions from any source at SoCalGas shall create nuisance conditions. No operations shall endanger health, safety or comfort, nor shall they damage any property or business.	C	N/A	Facility	No			
9.B.4. PM Concentration - South Zone (Rule 305). SoCalGas shall not discharge into the atmosphere, from any source, particulate matter in excess of the concentrations listed in Table 305(a) of Rule 305.	C	N/A	Facility	No			
9.B.5. Specific Contaminants (Rule 309). SoCalGas shall not discharge into the atmosphere from any single source sulfur compounds, carbon monoxide and combustion contaminants in excess of the applicable standards listed in Sections A, E and G of Rule 309.	C	N/A	Facility	No			
9.B.6. Sulfur Content of Fuels (Rule 311). SoCalGas shall not burn fuels with a sulfur content in excess of 0.5% (by weight) for liquid fuels and 239 ppmvd or 15 grains per 100 cubic feet (measured as H2S at standard conditions) for 'gaseous fuel' or fuel gas to the combustion units. Compliance with this condition shall be based on periodic measurements of the fuel gas and gaseous fuel using District-approved methods, and vendor-submitted data showing certified sulfur content for diesel.	C	Compliance with this condition shall be based on periodic measurements of the fuel gas using District-approved methods and vendor-submitted data showing certified sulfur content for diesel.	Facility	No			
9.B.7. Organic Solvents (Rule 317). SoCalGas shall comply with the emission standards listed in Section B of Rule 317. Compliance with this condition shall be based on compliance by SoCalGas with Condition C.10 of this permit.	C	Compliance with this condition shall be based on compliance with Condition C.10 of this permit. Tab 17	Facility	No			

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9.B.8. Solvent Cleaning Operations (Rule 321). This rule stipulates equipment and operational standards for process activities using solvents. SoCalGas shall comply with its Part 70 permit application 9584 statement that, except for routine maintenance involving wipe cleaning etc., it does not operate any solvent cleaning unit at the facility subject to Rule 321.	C	N/A	Facility	No			
9.B.9. Architectural Coatings (Rule 323). SoCalGas shall comply with the coating ROC content and handling standards listed in Section D of Rule 323 as well as the Administrative requirements listed in Section F of Rule 323. Compliance with this condition shall be based on compliance by SoCalGas with Condition C.10 of this permit and facility inspections.	C	Compliance with this condition shall be based on compliance by SoCalGas with Condition C.10 of this permit and facility inspections.	Facility	No			
9.B.10. Disposal and Evaporation of Solvents (Rule 324). SoCalGas shall not dispose through atmospheric evaporation of more than one and a half gallons of any photochemically reactive solvent per day. Compliance with this condition shall be based on compliance by SoCalGas with Condition C.10 of this permit and facility inspections	C	Compliance with this condition shall be based on compliance by SoCalGas with Condition C.10 of this permit and facility inspections. Tab 17	Facility	No			
9.B.11.A). Adhesives and Sealants (Rule 353). The permittee shall not use adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primers, unless the permittee complies with the following: A) Such materials used are purchased or supplied by the manufacturer or suppliers in containers of 16 fluid ounces or less; or alternately	C	Compliance shall be demonstrated by record keeping in accordance with Section B.2 and/or Section O of Rule 353. Tab 17	Facility	No			
9.B.11.B). B) When the permittee uses such materials from containers larger than 16 fluid ounces and the materials are not exempt by Rule 353, Section B.1, the total reactive organic compound emissions from the use of such material shall not exceed 200 pounds per year unless the substances used and the operational methods comply with Sections D, E, F, G, and H of Rule 353. Compliance shall be demonstrated by record keeping in accordance with Section B.2 and/or Section O of Rule 353.	C	NA	Facility	No			

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Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.B.12 Large Water Heaters and Small Boilers (Rule 360). Any boiler, water heater, steam generator, or process heater rated greater than or equal to 75,000 Btu/hr and less than or equal to 2.000 MMBtu/hr and manufactured after October 17, 2003 shall be certified per the provisions of Rule 360. An ATC/PTO permit shall be obtained prior to installation of any grouping of boilers, water heaters, steam generators, or process heaters subject to Rule 360 whose combined system design heat input rating exceeds 2.000 MMBtu/hr.	C	NA	Facility	No			
9.B.13. Breakdowns (Rule 505). SoCalGas shall promptly report: (a) breakdowns that result in violations of emission limitations or restrictions prescribed by District Rules or by this permit, or (b) any in-stack, continuous monitoring equipment breakdowns; such reporting shall be made in conformance with the requirements of Rule 505, Sections A, B1 and D.	C	N/A	Facility	No			
9.B.14. Emergency Episode Plan (Rule 603). During emergency episodes, SoCalGas shall implement the most current District-approved Emergency Episode Plan .	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
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Equipment Category:	**Internal Combustion Engines**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.1(a) Emission Limitations. Mass emissions from the IC engines with Plant ID #s 2 through 8 shall not exceed the limits listed in Tables 5.1-3 and 5.1-4. Allowable pollutant emission concentrations for the same engines are listed below. Compliance with these limits shall be assessed through compliance with the monitoring (includes source testing requirements, the ICE I&M Plan, and the CAM Plan), record keeping and reporting conditions listed below in this permit. SoCal Gas may demonstrate compliance with the NOx emission limits listed above either by meeting the exhaust concentration limit, or by both demonstrating at least 90% control of NOx across the catalyst and meeting the emission factor limit of 0.324 lb/MMBtu.	I	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. (includes source testing and ICE I& M Plan and the CAM Plan).	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
ATC 14287. Operational Restrictions. Operation of the equipment listed in this permit shall conform to the requirements listed in District Rule 333 and in Part-70/PTO 9584-R4 Conditions 9.C.1.b, 9.C.2.b, and 9.D.9.b. In addition, the following requirements shall be met: a. Gas Compressors #2 through #8 (Device IDs #001199 - #001205). i. Install a non-selective catalytic reduction (NSCR) device on each engine to reduce hazardous air pollutant (HAP) emissions, ii. Install equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1,250 °F., iii. Formaldehyde emissions shall not exceed 2.7 ppmvd at 15 percent oxygen. Compliance with this requirement shall be determined through annual source tests and an initial performance test. The initial performance test will satisfy the source testing requirement for formaldehyde for compliance year 2014.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Internal Combustion Engines**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.1(b)i. Operational Restrictions. The equipment permitted herein is subject to the following operational restrictions: (i) Fuel Use — Only natural gas shall be used as fuel in the IC engines listed above.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b) ii. Engine Identification — Each internal combustion engine shall have an identification plate or tag permanently affixed listing the make, model and serial number (or the operator's tag number). During any inspection, all identification plates or tags shall be made accessible and legible to facilitate District inspection of the engine.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b) iii. Heat Input Limits - Limit the max hourly and annual heat input (MMBtu/hr) to the values shown in Table C.1-3. 7.3 MMBtu/hr for each engine, 63,498 MMBtu/yr	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)(iv) Inspection And Maintenance Plan (I&M Plan) — The permittee shall operate in accordance with the District-approved, Rule 333.F. required, IC engine Inspection and Maintenance Plan and any subsequent District-approved updates.	I	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)(v) Catalyst Operation — For all IC engines above, (i.e., Engines # 2 through # 8) equipped with three-way NSCR catalysts, the catalysts shall operate at all times the engines are operating to reduce exhaust emissions of NOx, ROC and CO from these engines.	I	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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9.C.1(b)vi.A. Air-Fuel Ratio Controllers — Each Air-Fuel Ratio Controller (AFRC) shall be operated, calibrated, and maintained at all times in accordance with manufacturer's recommendations.	I	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)vi.B. Oxygen Sensors — Oxygen sensors in the stack shall be replaced by SoCalGas according to the schedule in the IC Engine I&M Plan. The date of each replacement shall be recorded in the maintenance log and quarterly reports, and this data shall be made available to the District inspector upon request.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)vi.C. Engine/Catalyst Operation – The performance standards of each NOx emission control device shall be maintained consistent with the IC Engine I&M Plan.	I	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)vi.D. Maintenance Of Engines — Each engine shall be maintained in conformance with the permittee-designed operations and maintenance procedures necessary to minimize the pollutant emissions from the engine. A copy of these procedures shall be made available to the District upon request. For each engine, records shall be kept to document the maintenance activities along with any District-approved adjustment to the operations and maintenance procedures which may change the emissions. These maintenance and adjustment records shall be submitted to the District upon request.	C	Maintenance records and records of any changes to the O&M procedures. [see Tab 6]	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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9.C.1(b)vi.E. Replacement Reporting —SoCalGas shall inform the District via telephone within 24 hours and in writing within five working days of any replacement of the engines or their associated control equipment. Replacement of the engines or their associated control equipment is only allowed in accordance with the District Rules and Regulations. If an engine or catalyst is replaced, source testing shall be conducted in accordance with the procedures set forth in the source testing condition of this permit. Source testing shall be conducted within 60 calendar days of replacement to determine the actual emission reduction associated with the new equipment. This source testing shall be in addition to, and not a replacement of, the annual source test as required by Section 9.C.1(c)(i) of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)vi.F. Emission Reduction Credits Dedicated To Point Arguello Project — The emission reduction credits created by District PTO 7500 are offsets for use by the Point Arguello Project, to meet its offset requirements. Emission reduction measures implemented to create the above emission reductions shall be maintained according to the IC Engine I&M Plan. The emission reduction credits are valid for the life of the Point Arguello Project only.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(b)vi.G. Shifts In Load — To assure that offsets in District PTO 7500 are real, quantifiable, surplus, and enforceable, SoCalGas shall not utilize a shift in load from the controlled engines with Plant ID #'s 2 - 8 to other uncontrolled point sources at the stationary source as means of generating possible additional emission reduction credits (ERCs).	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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9.C.1(b)vi.H. Monitoring Of Engine Operation — Each engine shall be equipped with a non-resettable hour meter to record its hours of operation.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c). Monitoring for engines 2 - 8.Monitoring:	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. [Tab 6 & 7]	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c)i. Any District-certified IC engine source test result which indicates the applicable Rule 333 emission limits or NSR permit-specified limits (as specified in Table 5.1-3) have been exceeded shall constitute a violation of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. [Tab 7]	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).ii. CAM; SCG shall implement the following CAM required monitoring:	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).ii.A. Monitor all complaince assurance indicators for the engines in conformance with the requirments listed in the CAM Plan.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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9.C.1(c).ii.B. Log any excursions of each indicator from its limits that are set forth in the latest CAM Plan.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).ii.C. Log all periods of monitor shutdowns, monitoring malfunctions and associated monitor repairs and any required quality assuarance/quality control activity periods for the monitors (i.e., the AFRC controller and the catalyst thermocouple units) as listed in the CAM plan. The reason for each shutdown, e.g., indicator range excursion or malfunction, shall also be listed in the log.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).ii.D. A minimum 90 percent data capture rate on a quarterly basis is required for each indicator. For the purposes of minimum data capture computations, any data obtained during the following periods are not included: Routine monitor calibrations and inspections; sudden and infrequent monitor malfunctions beyond the operator's reasonable control, and engine start-ups.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).ii.E. A Quality Improvement Plan (QIP) is triggered for any engine subject to CAM Rule, if more than one percent of valid individual data points obtained in any calendar quarter lie outside the CAM Plan established indicator ranges. SCG shall immediately notify the District if a QIP has been triggered and shall develop and submit such a Plan to the District for approval as expeditiously as practicable. The QIP submitted by SCG shall meet all the requirments specified for it in 40 CFR Section 64.8 at a minimum.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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9.C.1(c).iii.A. SCG shall implement all monitoring provisions of its I & M Plan approved by the District. This includes emissions monitoring of the 7 engines per District Rule 333.F.3 The inspections shall be conducted prior to any adjustments to the AFRC set points and shall consist of one fifteen minute run at the previously established set point.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).iii.B. Fuel Heating Value — The gross heating value of the gaseous fuel (Btu/scf) shall be measured using approved ASTM or ARB-approved test methods semi-annually.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).iii.C. Fuel Sulfur Content — The total sulfur content and H2S content of the gaseous fuel burned on the property shall be determined semi-annually using approved ASTM or ARB-approved test methods.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).iii.D. The hours of operation each month of each engine shall be documented in a log.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1(c).iii.E. Fuel use for each engine shall be monitored by an inline fuel meter. Meter design and specifications shall be approved by the District. The meters shall be calibrated per the latest District approved Process Monitor Calibrations and Maintenance Plan.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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Facility Name:	La Goleta Plant
Equipment Category:	**Internal Combustion Engines**
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Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.1.(d) Recordkeeping The permiitee shall record and maintain the following information. This data shall be maintained for a minimum of 5 years from the date of each entry and made available to the District upon request:	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).i. Hours - Records documenting hours of operation and days of operation for each IC engine each month. The record shall document any 60 minute start up period required for IC engine after it is shut down.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).ii. Fuel Use - Records documenting IC engines monthly fuel consumption (scf/month)	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).iii. Fuel Heating Value - Records documenting the gross heating value of fuel (btu/scf) on a semi annual basis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	Yes	non- EE	1	
9.C.1.(d).iv. Fuel Sulfur Content - Records documenting total sulfur content and H2S content of the gaseous fuel on a semi-annual basis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	Yes	non- EE	1	
9.C.1.(d).v. Equipment Maintenance Data - Records summary documenting engine/control device maintenance on an annual basis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.1.(d).vi. I&M Plan Logs - Logs documenting the parameter settings , Nox and CO level recorded and other values required under the I & M Plan for each engine shall be kept on site.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).vii. Equipment ID/Tags - If an operator's tag number is used in lieu of an IC engine identification plate, written communication which references the operators's unique IC engine ID number to a list containing the make model rated maximum continuous BHP and the corresponding RPM.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).viii. Monitor Non-operational time - Logs documenting all non-operational times for the AFRC controller units and the catalyst temperature measurements units including the reasons for all monitor shutdowns, as monitored per Conditions 9.C.1.c(ii)(C) above.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).ix. Set Point Settings Data - A record of the most current AFRC setpoints and the date these were established.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).x. Engine Operation Outside Settings - A records of any continuous engine operation outisde of the indicator ranges established in the CAM plan. All such excursions are to be flagged specifically in the CAM logs.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).xi. Maintenance Records - Records on all maintenance performed for all equipment specified in this permit including engine time settings, engine maintenance, catalyst maintenance, and AFRC	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			

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Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.1.(d).xii. Control Equipment Parameters - Records on catalyst (including manufacturer, model and serial numbers), engine, air-fuel ratio controller, or sensor replacement.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(d).xiii. CAM Plan Required Data - A monthly summary of all compliance indicator data excursions and all monitor non-operational times, obtained pursuant to Conditions 9.C.1.c(ii)B and C above.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1199, 1200, 1201, 1202, 1203, 1204, 1205	No			
9.C.1.(e) Reporting On a semi annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the Semi-Annual Compliance Verification reports condition of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.		No			
9.C.2(a) Mass emissions from IC engines listed in Table C.2-1 above shall not exceed the limits listed in Table 5.1-3 and 5.1-4 for the engines. Allowable pollutant emissions concentrations for the same engines are listed in Table C.2-2 above. Compliance with these limits shall be assessed through compliance with monitoring (includes source testing and I & M Plan), recordkeeping and reporting conditions listed below in this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
ATC-14287 b. Gas Compressor #9 (Device ID #001206), i. Change the oil and filter every 4,320 hours of operation or annually, whichever comes first., 1. Alternatively, So Cal Gas may utilize an oil analysis program specified in 40 CFR 63 Subpart ZZZZ §63.6625(i). If all the requirements detailed in this section of the regulation are satisfied, the owner or operator shall not be required to change the oil. If any of the limits are exceeded the engine owner or operator must change the oil within 2 business days ofreceiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later., ii. Inspect the spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. , iii. · Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(b).i The operational limitations listed below shall apply to the IC engine #9. Natural gas used only as fuel.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(b).ii Engine #9 shall have an identification plate or tag permanently affixed listing the make, model and serial number (or operator's tag number.)	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(b).iii Engine #9 shall have heat limits of 10.02 MMBtu per hour and 87,795 MMBtu per year	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.2(b).iv Engine #9 permittee shall operate in accordance with District approved I&M plan and their subsequent updates for all engines subject to Rule 333	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(c).i Limits exceedance - Any District certified IC engine source test result which indicates the applicable emission limits i.e. Rule 333.D emission limits or NSR permit-specified limits have been exceeded shall constitue a violation of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(c).ii. I & M Plan SoCalGas shall implement all monitoring provisions of its IC Engine I&M Plan approved by the District	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(c).iii Fuel Heating Value - The gross heating value of the gaseous fuel (btu/scf) shall be measured using approved ASTM or ARB-approved test methods semi-annually.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(c).iv. Fuel Sulfur Content - The total sulfur content and H2S content of the gaseous fuel burned on the property shall be analyzed and determined using approved ASTM or ARB-approved test methods annually.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2(c).v. Operating Hours - The hours of operation each month of each engine, including the IC engines exempt from permitting shall be documented in a log which would be available for inspection or upon request.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.2(c).vi. Fuel Use Metering - Fuel use for the engine with Plant Id #9 shall be monitored by an in-line fuel meter. Meter design and specifications shall be approved by the District. The meters shall be calibrated per the latest District approved Process Monitor Calibration and Maintenance Plan.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d) SCG shall keep the required logs , as applicable to this permit, which demonstrate compliance with emisson limits, operation limits and monitoring requirements above. All logs shall be available to the District upon request. Written information (logs) shall include:	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d).i. Hours - Records documenting individual IC engine operating hours each month	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d).ii. Fuel Use - Records documenting IC engine Plant Id #9 monthly fuel consumption (scf/month)	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d).iii Fuel Heating Value - Records documenting the gross heating value of fuel (Btu/scf) on an annual basis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d).iv. Fuel Sulfur Content - Records documenting the total sulfur content and H2S content of the gaseous fuel on an annual basis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			

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Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.2.(d).v. Equipment Maintenance Data - Records summary documenting engine/control device maintenance on an annual basis	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(d).vi. I & M Plan Logs - Logs documenting the parameter settings, Nox and CO level recorded, an other values required under the I & M Plan for the engine shall be kept on site.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			
9.C.2.(e) Reporting On a semi annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the Semi-Annual Compliance Verification reports condition of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1206	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
ATC 14287. c. Firewater Pumps (Device IDs #008666 and #008668), i. Change the oil and filter every 500 hours of operation or annually, whichever comes first., 1. Alternatively, So Cal Gas may utilize an oil analysis program specified in 40 · CFR 63 Subpart ZZZZ §63.6625(i). If all the requirements detailed in this section of the regulation are satisfied, the owner or operator shall not be required to change the oil. , If any of the limits are exceeded the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later., 11. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary., iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary., iv. Beginning January 1, 2015, these engines shall use diesel fuel that meets the requirements in 40 CFR 80.51 O(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January l, 2015, may be used until depleted.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	008666, 008668	No			

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A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
ATC 14287, d. Emergency Generator (Device ID #008665), i. Change the oil and filter every 500 hours of operation or annually, whichever comesfirst., 1. Alternatively, So Cal Gas may utilize an oil analysis program specified in 40 CFR 63 Subpart ZZZZ §63.6625(i). If all the requirements detailed in this section of the regulation are satisfied, the owner or operator shall not be required to change the oil., If any of the limits are exceeded the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later., IL Inspect the spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary., iii. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. , iv. This engine may be operated up to 100 hours per calendar year for maintenance, testing, and emergency demand response. The RICE may also be operated up to 50 hours per calendar year in non-emergency situations, but the 50 hours of operation in non-emergency situations are counted as part of the 100 hours. There is no time limit on the use of the RICE in emergency instructions.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	008665	No			

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ATC 14287 e. Air Compressors (Device IDs #001221 and #001222), i. Change the oil and filter every 1,440 hours of operation or annually, whichever comes first., 11. Inspect the spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary., iii. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary., f. The operator shall minimize each engine's time at idle during startups to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes., g. The owner and operator must operate and maintain each engine and emission control device in a manner consistent with safety and good air pollution control practices for minimizing emissions or according to the manufacturer's emissions related operation and maintenance instructions.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	001221 and 001222	No			
9.C.3(a) Micro Turbines The mass emissions from the equipment permitted herein shall not exceed the values in Table 5.2. Compliance with the short-term and long-term mass emission limits for the Capstone C60 micro-turbines shall be based on the aggregated potential to emit of all four units. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit. Based on CARB DG-002, emissions from the Capstone C60 micro-turbines shall not exceed 0.5 lb/MW-hr NOx, 6 lb/MW-hr CO, and 1 lb/MW-hr ROC.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(b).i The total sulfur and hydrogen sulfide (H2S) content (calculated as H2S at standard conditions, 60oF and 14.7 psia) of the PUC quality natural gas used as fuel in the Capstone C60 micro-turbines shall not exceed 80 ppmv and 4 ppmv, respectively. Compliance with this condition shall be based on annual fuel gas sampling and analysis.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			

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9.C.3(b).ii The Capstone C60 micro-turbines shall only be operated using PUC quality natural gas. The permittee shall comply with the following fuel gas operational restrictions: The four Capstone C60 micro-turbines combined shall not use more than 73,508 scf/day, 6.71 MMscf/qtr, and 26.83 MMscf/yr of natural gas.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(c).i The permittee shall install and operate a dedicated, temperature and pressure-corrected, totalizing, non-resettable type fuel meter, to measure the amount of natural gas used.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(c).ii On a annual basis maintain records of the heat content of the fuel gas in units of (btu/scf)	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(c).iii The permittee shall measure the total sulfur and H2S content of the fuel gas annually in accordance with EPA Method 15/16/16A.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(c).iv When requetsed in writing, by the District, the permittee shall perform source testing for the C60 micro-turbines to demonstrate complaince with Condition 9.C.3. Table 4.B of this PTO shows the pollutants and process parameters that are to be monitored when the micro-turbines are source tested.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(d).i The total amount of PUC qulaity natural gas used bewteen the four Capstone C60 micro-turbines shall be recorded on a monthly, quarterly, and annual basis in units of scf and MMBtu.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			

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9.C.3(d).ii Record the annual heat value results of the fuel gas.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(d).iii For each month, the number of days each micro-turbine operated.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3(d).iv The annual measured total sulfur and H2S content, both in units of ppmdv, of the fuel gas burned in the micro-turbines.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			
9.C.3.(e) Reporting On a semi annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the Semi-Annual Compliance Verification reports condition of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	107543, 107544, 107545, 107546	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Process Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
C.4.a Emission Limitations - The emissions from the equipment permitted herein sha ll not exceed the values listed in Tables 5.1-3B and 5.1-4B. Compliance shall be based on the operational, monitoring, recordkeeping, and reporting conditions of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.i Heat Input Limits - The hourly , daily and annual heat input limits to each unit shall not exceed the values listed in Table 5.1-1B. The limits are based on the design rating of the unit and the annual heat input value as listed in the permit application. Unless othewise designated by the District 1050 Btu/scf shall be used for determining compliance.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.ii Public Utility Natural Gas Fuel Sulfur Limit - The total sulfur and H2S content (60F at 14.7 psia) of the public utility natural gas shall not exceed 80 ppmv and 4 ppmv respectively. Compliance with this condition shall be based on billing records or other data showing that the fuel gas is obtained from a public utility gas company.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.iii Existing Units - The owner or operator of any unit requesting the low use exemption in Section D.2 shall comply with the requirement to submit a Rule 361 Compliance Plan for District review and approval prior to March 15, 2016. Fuel meters installed pursuant to the approved Rule 361 Compliance Plan shall be installed prior to December 31, 2016.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.iii.A Existing Units - On or before Jan 20, 2019 the owner or operator of any existing unit shall: For units subject to Sectin D.1 emission standards, apply for Authority to Construct permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Process Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
C.4.b.iii.B Existing Units - On or before Jan 20, 2019 the owner or operator of any existing unit shall: For units subject to Sectin D.2 low use provision, provide the annual fuel heat input data for years 2017 and 2018. Any existing unit that is replaced or modified is subject to requirements of Rule 361 and shall first obtain a District ATC permit prior to installation or modification.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.iv.A. A ATC/PTO permit shall be obtained prior to installations of any grouping of Rule 360 applicable boilers or hot water heaters whose combined system design heat input rating exceeds 2 MMBTU/hr.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.iv.B. An ATC permit shall be obtained prior to installation, replacement or modification of any existing Rule 361 applicable boiler or water heater rated over 2 MMBTU/hr.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.b.iv.C. An ATC shall be obtained for any size boiler or water heater if the unit is not fired on natural gas or propane.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Process Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
C.4.c.i Default Rating Method - The volume of natural gas used (scf) shall be reported as permitted annual heat input limit for the unit (btu/yr) divided by the District approved heating value of the fuel (Btu/scf)	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.c.ii Existing Units Rated Between 2-5 MMBtu/hr. These units are not subject to tuning or source testing requirements.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.d.i Recordkeeping The permittee shall record and maintain the following information. This data shall be maintained for a minimum of 5 years from the date of each entry and made available to the District upon request: Fuel Use - Units Rated 5 MMBtu/hr. The volume of fuel gas used each year (scf) as determined by the Default Rating Method.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			
C.4.(e) Reporting. On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1214, 107535	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Hot Water Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
1. Emission Limitations. The emissions from the equipment permitted herein shall not exceed the values listed in Table 1 and Table 2. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
a. Heat Input Limits. The hourly, daily and annual heat input limits to each unit shall not exceed the values listed in Table 3. These limits are based on the design rating of the unit and the annual heat input value as listed in the permit application. Unless otherwise designated by the District, the following fuel content shall be used for determining compliance: Natural Gas = 1,050 Btu/scf.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
b. Public Utility Natural Gas Fuel Sulfur Limit. The total sulfur and hydrogen sulfide (H2S) content (calculated as H2S at standard conditions, 60°F and 14.7 psia) of the public utility natural gas fuel shall not exceed 80 ppmv and 4 ppmv respectively. Compliance with this condition shall be based on billing records or other data showing that the fuel gas is obtained from a public utility gas company.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
c. Rule 360 Compliance. Any boiler or hot water heater rated at or less than 2.000 MMBtu/hr and manufactured after October 17, 2003 shall be certified per the provisions of Rule 360. An ATC/PTO permit shall be obtained prior to installation of any grouping of Rule 360 applicable boilers or hot water heaters whose combined system design heat input rating exceeds 2.000 MMBtu/hr	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Hot Water Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
Recordkeeping. The permittee shall record and maintain the following information. This data shall be maintained for a minimum of five (5) years from the date of each entry and made available to the District upon request: a. Fuel Use - Units Rated Under 5.000 MMBtu/hr. The volume of fuel gas used each year (in units of standard cubic feet) as determined by the fuel use monitoring option as listed in Table 4. Units that track fuel use using the Default Rating Method are not required to record the fuel usage.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
b. Fuel Use Meter Calibration Records. Calibration records of District-approved fuel use meters.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
c. Tuning Records. For units subject to Rule 360, maintain documentation verifying the required tune-ups, including a complete copy of each tune-up report.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			
d. Maintenance Logs. Maintenance logs for the unit(s) and fuel meter (as applicable).	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Hot Water Heaters**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
Reporting. By March 1 of each year, a written report documenting compliance with the terms and conditions of this permit for the previous calendar year shall be provided by the permittee to the District (Attn: Annual Report Coordinator). The report shall contain information necessary to verify compliance with the emission limits and other requirements of this permit. The report shall be in a format approved by the District. All logs and other basic source data not included in the report shall be made available to the District upon request. The report shall include the following information: a. Fuel Use Data. The fuel use data required in the Recordkeeping Condition above. Units that track fuel use using the Default Rating Method are not required to submit an annual report for fuel use. b. Tune-Up Reports. Tuning Records as required in the Recordkeeping Condition above.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	113985, 113987	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Flares**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.5.(a). Emission Limits: The mass emissions from the equipment permitted herein shall not exceed the values listed in Tables 5.1-3 and 5.1-4 and the emission standards listed below. Compliance with the mass emission limits of this permit shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.(b).i. (i) Flare units 1211 and 1212 shall not combust any waste gases that have not been treated by one of the SULFATREAT units (104915 or 113418) operating in series with one of the CEI-KMN units B (104916) or C (107706). CEI-KMN units B and C are designed to operate in parallel with each other; either one of these units shall operate all the time the waste gas stream is processed. SoCalGas must receive written District approval prior to using any alternate media in these units.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.(b).ii. Smokeless Operation: All flares shall operate "smokeless," as defined in District Rule 359.C.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(b)iii. All flares shall operate equipped with an automatic ignition system including a pilot-light gas source or equivalent system, or shall operate with pilot flames present at all times with the exception of purge periods for automatic ignition equipped flares. .	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(b).iv. The presence of the flame in the flare pilots shall be continuously monitored using thermocouples or equivalent devices that detect the presence of flames.	C	Thermocouple and IR Camera	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(b).v. The flare flames shall be operating at all times when combustible gases are vented through the flares.	C	Thermocouple and IR Camera	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Flares**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.5.(b).vi. The maximum hourly heat input to each flare is limited to the value listed below: Flare ID# Max. Hourly Heat Input (MMBtu/hr) 1211, 1212, 1215 1.60 (each flare)	C	Dehydration Records [Tab 19]	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(b).vii. The gases combusted in the flares shall not contain sulfur compounds in excess of 15 gr./100 scf (239 ppmv), calculated as H2S under standard conditions (i.e., 14.7 psia and 60□F). Only PUC-quality natural gas shall be used as pilot fuel gas, with total sulfur content less than 80 ppmv.	C	Monitoring Records [Tab 25]	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(b).viii. (viii) The drains off of the SULFATREAT units and the CEI-KMN units shall remain connected to the existing low pressure condensate piping system at all times. No liquids shall be drained to the atmosphere from the units when they are operational; and no flash-offs to the atmosphere shall occur from this unit while operating and draining collected water.	C	N/A	104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.(c).i. The heating value of the 'gaseous fuel' (Btu/scf) shall be analyzed annually using the ASTM methods listed in Rule 359.E (test methods).	C	Measure sulfur content using ASTM methods as listed in Rule 359.E. [see Tab 25]	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.(c).ii. For flare unit 1215, 'gaseous fuel' sulfur content (H2S and TRS) must be measured annually using the ASTM methods listed in Rule 359.E (test methods). For flare units 1211 and 1212, the total sulfur content in 'gaseous fuel' shall be measured semi-annually using the Rule 359.E listed methods.	C	ASTM Methods listed in Rule 359 E.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	Yes	non- EE	1	

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Flares**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.5.(c).iii. The purge gas sulfur content must be measured annually using Rule 359.E-listed ASTM methods, if such gas is not PUC quality natural gas or an inert gas.	C	Measure sulfur content using ASTM methods as listed in Rule 359.E.: [Tab 25]	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.(c) iv. SoCalGas shall maintain purchase records documenting the type of material purchased for the SULFATREAT units and the CEI-KMN units.	C	Purchase Records	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.d.i Recordkeeping: Heating Value - Annual records documenting the higher heating value of the 'gaseous fuel.' Such documents shall be the results of the laboratory analyses using ASTM test methods prescribed in Rule 359.E.	C	Measure sulfur content using ASTM methods as listed in Rule 359.E.: [Tab 25]	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm	No			
9.C.5.d.ii Fuel Sulfur Content - Records documenting annually the 'gaseous fuel' sulfur content as measured periodically, and, if applicable, the purge gas sulfur content for each flare unit.	C	ASTM Methods listed in Rule 359 E.	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			
9.C.5.(d).iii. Media Bed Change- Records documenting any media bed changes for the SULFATREAT units and the CEI-KMN units. The records shall include the dates and times of each change-out, the quantity of material replaced, and the type of material placed in the unit.	C	SULFATREAT/KMN Logs [Tab 24]	104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Flares**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.5.(e). Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A	Flare ID #s 1211 South, 1212 North, 1215 Tank Farm, 104915 Sulfatreat, 113418 Sulfatreat, 104916 CEI-KMN B, 107706 CEI-KMN C.	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Fugitive HC Emissions Components**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.6.(a). Mass emissions from the fugitive HC components listed above shall not exceed the limits listed in Table 5.1-3 B and 5.1-4 B for these components.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	100882, 100883, 100884, 100885, 100886	No			
9.C.6.(b).i. Gas Collection System Use – The gas collection (GC) system shall be in operation when any of the equipment which is connected to the GC system at the facility is in use. The GC system shall be maintained and operated to minimize the release of emissions from all systems, including separators and storage vessels.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	100882, 100883, 100884, 100885, 100886	No			
9.C.6.(b).ii. Leak-Path Count – The total component and component-leak-path count listed in the SoCalGas I&M component and component-leak-path inventory shall not exceed the total leak-path component count assigned to these units in Table C.6 by more than five percent. This five percent range is to allow for minor differences due to component counting methods and does not constitute allowable emissions growth due to the addition of new equipment. The leak path count in Table C.6 will be verified by the District during inspections.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	100882, 100883, 100884, 100885, 100886	No			
9.C.6.(c). Recordkeeping: SoCalGas shall keep a log of the changes in fugitive emissions component count and associated emissions changes summarized on a quarterly basis. Retain inspection and/or repair records for a minimum of five years.	C	Fugitive emission component and emissions changes records [see Tab 27]	100882, 100883, 100884, 100885, 100886	No			
9.C.6.(c)(ii) Carbon Canister Change: Records documenting carbon replacement for the canister serving the odorant system. The records shall include the dates of each change-out, the quantity of material replaced, and the type of material placed in the unit.	C	Purchase records	Odorant System, Carbon Drum	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Fugitive HC Emissions Components**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.6.(d). Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A	100882, 100883, 100884, 100885, 100886	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**HC Liquid Storage Tanks**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.7.(a) - Mass emissions from the equipment items ID # 1219, 1220 and 1217 listed above shall not exceed the limits listed in Tables 5.1-3 and 5.1-4 for the items. Compliance with these limits shall be assessed through compliance with the monitoring, record keeping and reporting conditions listed below in this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	1219, 1220, 1217, 1218	No			
9.C.7.(b).i. Throughput Limitations: Annual hydrocarbon condensate production (dry) shall not exceed 125,000 gallons.	C	Production records [see Tab 20]	1219, 1220, 1217, 1218	No			
9.C.7.(b).ii. No volatile organic compound (VOC) liquid shall be stored in the hydrocarbon storage tanks (ID # 1219, 1220 and 1217) or brine water storage tank (ID # 1218) listed in Table C.7, unless the tanks are connected to the gas collection system and all collected gas is combusted by a flare with a destruction efficiency of at least 95%. All tanks listed in Table C.7 shall be operated in a leak-free condition to minimize the release of reactive organic vapors.	C	N/A	1219, 1220,1217	No			
9.C.7.(b).(iii). Prior to opening a tank for cleaning the tank shall be purged of ROC vapors and the purged gas shall be directed to a vapor control device with a destruction efficiency of at least 95%.	C	N/A	1219, 1220, 1217	No			
9.C.7.(b).(iv). Odorant Tank Filling: Emissions of VOCs to the atmosphere resulting from any odorant storage tank (ID # 100901) filling operations shall be reduced by passing displaced vapors through a vapor recovery system with control efficiency greater than 90 percent. Odorant emissions shall not be detectable, by olfactory senses, at or beyond the property boundary at any time during tank filling operations.	C	N/A	100901	No			
9.C.7.(c)(i). **Monitoring:** The volume of hydrocarbon liquid (condensate) produced annually shall be monitored by noting the volume (in gallons) flowing out of the hydrocarbon liquid storage tank (ID # 1217) into trucks on a monthly basis.	C	Production records [see Tabs 21]	1217	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**HC Liquid Storage Tanks**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.7.(c)(ii). The API gravity and the true vapor pressure at 67.2 degrees F of the stored hydrocarbon liquid in each storage tank (ID # 1219, 1220 and 1217) shall be determined annually. Alternately, the Reid vapor pressure of the stored condensate may be measured by the ASTM D 323 Standard Method and the true vapor pressure calculated by API Bulletin 2517, or equivalent District-approved Reid/True vapor pressure correlation. The actual temperature of the stored hydrocarbon liquid shall be measured each time a sample is taken for API gravity and TVP analysis. Note: The API gravity and TVP analysis for the HC Condensate Storage tank may be used as representative values for all three tanks instead of sampling from each tank individually	C	ASTM Method D 323 (RVP), TVP calc per API Bulletin 2517, ASTM Method D 287 (API gravity), and infra-red heat gun. [see Tab 15]	1219, 1220, 1217	No			
9.C.7(d).(i).**Recordkeeping**: The volume of hydrocarbon liquid produced annually shall be recorded. SoCalGas shall keep the required logs, as applicable to this permit, which demonstrate compliance with emission limits, operation limits and monitoring requirements above. All logs shall be available to the APCD upon request. Written information (logs) shall include:	C	Production records [see Tab 20]	1219, 1220, 1217, 1218, 100899, 100910, 100910, 100901	No			
9.C.7.(d).ii. The API gravity, the true vapor pressure at 67.2 degrees F, and the actual storage temperature of the stored hydrocarbon liquid in each storage tank (ID # 1219, 1220 and 1217) shall be recorded annually.	C	Lab analyses and calculation sheet [see Tab 15]	1219, 1220, 1217	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**HC Liquid Storage Tanks**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.7.(d).iii. Records of maintenance performed per Sections B.3 and B.5 of Rule 326. These records contain, at a minimum, the following: A. Tank Identification: Tank identification type of vapor controls used, and initials of personnel performing maintenance. B. Maintenance Performed: Description of maintenance procedure performed. C. Estimated Excess Emissions: Excess emissions caused by maintenance and how determined. D. Maintenance Dates & Times: Times and dates of maintenance procedure.	C	Maintenance records	1219, 1220, 1217, 1218, 100899, 100910, 100910, 100901	No			
9.C.7.(e). Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A	1219, 1220, 1217, 1218, 100899, 100910, 100910, 100901	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Loading Station**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.8.(a). **Loading Station**: Mass emissions from the equipment items listed above shall not exceed the emission limit listed for these items in Tables 5.1-3 and 5.1-4 of this permit. Compliance with these limits shall be assessed through compliance with the monitoring, record-keeping and reporting (MRR) conditions listed in this permit.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	8669	No			
9.C.8.(b).i. Loading Station must comply with Rule 346, (i) All tanker trucks receiving organic liquids shall be equipped with a submerged fill pipe;	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	8669	No			
9.C.8.(b).ii. SoCalGas shall restrict the HC condensate loading station operations so that the hourly volume of condensate into tanker trucks shall not exceed 170 barrels	C	Shipping records [see Tab 21]	8669	No			
9.C.8.(b).iii. The condensate volume loading shall be restricted to 476 barrels (i.e., 19,992 gallons) daily	C	Shipping records [see Tab 21]	8669	No			
9.C.8.(b).iv. Total condensate loading volume shall not exceed 2,976.19 barrels (i.e., 125,000 gallons) annually.	C	Shipping records [see Tab 21]	8669	No			
9.C.8.(c). SoCalGas shall monitor, via a log or a shipping invoices document, the daily and total annual volumes of hydrocarbon condensate shipment from the truck loading station.	C	Shipping records [see Tab 21]	8669	No			
9.C.8(d). SoCalGas shall record the daily and total annual volumes (in gallons) of HC condensate shipment from the loading station, in a log kept on-site. When vacuum trucks are used to empty the condensate tanks, the log shall include the operator's initials, date of loading operation, and the destination of the condensate. If vacuum trucks are not used to empty the condensate tanks, the log shall include the operator's initials, date of loading operation, transfer temperature, and method of determining throughput for each loading operation	C	Shipping records [see Tab 21]	8669	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Loading Station**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.8(e). Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must include all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A	8669	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Wells**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.9.(a) **Wells**: Mass emissions from the emission units listed above shall not exceed the emission limit listed for these items in Tables 5.2B of this permit. Compliance with these limits shall be assessed through compliance with the monitoring, record-keeping and reporting (MRR) conditions listed in this permit	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit.	8670, 100903	No			
9.C.9.(b) On an annual basis, SoCalGas shall (i) measure the reactive organic compound (ROC) content of the vented gas, using gas-liquid chromatography analysis, and the gas total sulfur (TRS) content, and (ii) annually record the computed volume of vented reservoir gas from each pipeline depressurization event.	C	ASTM Method D 1945-81 in conjunction with ASTM Method D 3588-89, and gas venting records [see Tab 18]	8670, 100903	No			
9.C.9.(c)(i) The computed volume of gas (in units of scf) vented annually to the atmosphere resulting from all pipeline depressurizations; and the ROC and TRS content (by weight percent) of this gas	C	Gas venting records [see Tab 18]	8670, 100903	No			
9.C.9.(c)(ii) The dates and volumes of venting attributed to emergency events, and documentation of each emergency.	C	Emergency venting records [see Tab 22]	8670, 100903	No			
9.C.9.(d) Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	N/A	8670, 100903	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Solvent Usage**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.10(a). Solvent Usage ROC mass emissions from solvent usage shall not exceed the limits listed in Tables 5.1-3 and 5.1-4.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. [Tab 17]	8680	No			
9.C.10(b). Use of solvents for cleaning/degreasing shall conform to the requirements of District Rules 317, 321, and 324. Compliance with these rules shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit and through facility inspections.	C	N/A - Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions in this permit. [Tab 17]	8680	No			
9.C.10(b)(i). Containers - Vessels or containers used for storing materials containing organic solvents shall be kept closed unless adding to or removing material from the vessel or container.	C	N/A	8680	No			
9.C.10(b)(ii). Materials - All materials that have been soaked with cleanup solvents shall be stored, when not in use, in closed containers that are equipped with tight seals.	C	N/A	8680	No			
9.C.10(b)(iii). Solvent Leaks - Solvent leaks shall be minimized to the maximum extent feasible or the solvent shall be removed to a sealed container and the equipment taken out of service until repaired. A solvent leak is defined as either the flow of three liquid drops per minute or a discernable continuous flow of solvent.	C	N/A	8680	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Solvent Usage**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.10(b)(iv). Reclamation Plan - SoCalGas may submit a Plan to the District for the disposal of any reclaimed solvent. If the Plan is approved by the District, all solvent disposed of pursuant to the Plan will not be assumed to have evaporated as emissions into the air and, therefore, will not be counted as emissions from the source. SoCalGas shall obtain District approval of the procedures used for such a disposal Plan. The Plan shall detail all procedures used for collecting, storing and transporting the reclaimed solvent. Further, the ultimate fate of these reclaimed solvents must be stated in the Plan.	C	N/A	8680	No			
9.C.10(c). Recordkeeping: SoCalGas shall record in a log the following on a monthly basis for each solvent used: amount used; the percentage of ROC by weight (as applied); the solvent density; the amount of solvent reclaimed for District-approved disposal; whether the solvent is photochemically reactive; and, the resulting emissions to the atmosphere in units of pounds per month and pounds per day. Product sheets (MSDS or equivalent) detailing the constituents of all solvents shall be readily available.	C	Solvent use records [see Tab 17]	8680	No			
9.C.10(d). Reporting: On a semi-annual basis, a report detailing the previous six month's activities shall be provided to the District. The report must list all data required by the Semi-Annual Compliance Verification Reports condition of this permit.	C	Monitoring Records [Tab 17]	8680	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Process Monitoring Systems - Operations and Maintenance**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.11 All Plant process monitoring devices listed in Section 4.9.2 of this permit shall be properly operated and maintained according to manufacturer recommended specifications. SoCalGas shall implement an District-approved Process Monitor Calibration and Maintenance Plan for the life of the Plant.	C	Process Monitor Calibration and Maintenance Plan	All devices	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	Process Stream Sampling and Analysis
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.12 SoCalGas shall sample analyze the process streams listed in Section 4.10 of this permit according to the methods and frequency detailed in that Section. All process stream samples shall be taken according to ASTM or other District-approved methods and must follow traceable chain of custody procedures.	C	ASTM Methods D 1945-81 in conjunction with ASTM Method D 3588-89, and USEPA Method 15/16 (Fuel Gas and Vented Gas); ASTM Method D 287-82, ASTM Method D 323-82, & API Bulletin 2517 (Hydrocarbon Condensate) [see Tabs 9, 10, 15, & 18]	Fuel Gas, Vented Gas, Hydrocarbon Condensate, Gaseous Fuel	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Source Testing**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.13(i). SoCalGas shall conduct 'third party' source testing of air emissions and process parameters listed in Section 4.10 and Table 4.1 of this Permit to Operate. More frequent source testing may be required if the equipment does not comply with permitted limitations or if other compliance problems, as determined by the APCO, occur. A source test shall not be required for equipment that is documented to have been in out-of -service status, and is not operational at the time of annual source testing. However, when such equipment becomes operational, a source test shall be performed within 30 calendar days of start-up. The District shall be notified in writing at least 3 working days before the affected equipment will become operational.	C	ASTM Method; Measure	All engines subject to testing	No			
9.C.13(ii). (ii) SoCalGas shall submit a written source test plan to the APCD for approval at least thirty (30) calendar days prior to initiation of each source test. The source test plan shall be prepared consistent with the APCD's Source Test Procedures Manual (revised May 1990 and any subsequent revisions). If SoCalGas wants to demonstrate NOx emissions compliance for its IC engines #2 through #8 utilizing the 90% control option listed in Rule 333, the Plan shall include proposed procedures to measure simultaneously the catalyst inlet and outlet NOx concentrations. SoCalGas shall obtain written APCD approval of the source test plan prior to commencement of source testing. The APCD shall be notified at least fourteen (14) calendar days prior to the start of source testing activity to arrange for a mutually agreeable source test date when APCD personnel may observe the test.	C	N/A	All engines subject to testing	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Source Testing**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.13(iii). (iii) A source test for an item of equipment shall be performed on the scheduled day of testing (the test day mutually agreed to) unless circumstances beyond the control of the operator prevent completion of the test on the scheduled day. Such circumstances include but are not limited to mechanical malfunction of the equipment to be tested, malfunction of the source test equipment, delays in source test contractor arrival and/or set-up, or unsafe conditions on site. Except in cases of an emergency, the operator shall seek and obtain District approval before deferring or discontinuing a scheduled test, or performing maintenance on the equipment item on the scheduled test day. Once the sample probe has been inserted into the exhaust stream of the equipment unit to be tested (or extraction of the sample has begun), the test shall proceed in accordance with the approved source test plan. In no case shall a test run be aborted except in the case of an emergency or unless approval is first obtained from the District. If the test cannot be completed on the scheduled day, then the test shall be rescheduled for another time with prior authorization by the District. Failing to perform the source test of an equipment item on the scheduled test day without a valid reason and without District's	C	N/A	All engines subject to testing	No			
9.C.13(iv) A source test report shall be submitted to the District within forty-five (45) calendar days following the date of source test completion and shall be consistent with the requirements approved within the source test plan. The source test report shall include all data and calculations to determine compliance with emission rates in Sections 5 and 9 and applicable permit conditions. All reasonable District costs associated with the review and approval of all plans and reports and the witnessing of tests shall be paid by SoCalGas as provided for by District Rule 210.	C	N/A	All engines subject to testing	No			
9.C.13.v The District may at its discretion, extend any of the timelines listed in this conditon for good cause.	C	N/A	All engines subject to testing	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**ICE Particulate Matter Operations and Maintenance Plan**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.14 To ensure compliance with District Rules 205.A, 302, 304, 309 and the California Health and Safety Code Section 41701 by the diesel-fired emergency fire-water pumps, SoCalGas shall implement its District-approved IC Engine Particulate Matter Operation and Maintenance Plan for the life of the project. [Re: District Rules 205.A, 302, 304, 309]	C	USEPA Method 9 Visible Emissions Evaluation Maintenance Logs	8666, 8668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Semi-Annual Compliance Verification Reports**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.15 Twice a year, SoCalGas shall submit a compliance verification report to the District. Each report shall be used to verify compliance with the prior two calendar quarters. The first report shall cover calendar quarters 1 and 2 (January through June) and shall be submitted no later than September 1. The second report shall cover calendar quarters 3 and 4 (July through December) and shall be submitted no later than March 1. Each report shall contain information necessary to verify compliance with the emission limits and other requirements of this permit (if applicable for that reporting period). These reports shall be in a format approved by the District. The permittee may, with prior approval from the District, submit the report on a computer disk instead of a hard copy medium. The District will specify the format for such disk reporting. All logs and other basic source data not included in the report shall be available to the District upon request. The second report shall also include an annual report summarizing the activities for the calendar year. Pursuant to Rule 212, a completed District Annual Emissions Inventory questionnaire shall be included in the annual report or submitted electronically via the District web site.	C	N/A	Facility	No			
9.C.15 (a)(i). ICEs - (i) Records documenting hours of operation and days of operation for each IC engine each month. The record shall document any 60-minute start-up period.	C	N/A	Facility	No			
9.C.15.(a)(ii). ICEs - Records documenting each permitted IC engine's monthly fuel consumption (scf/month)	C	N/A	Facility	No			
9.C.15.(a)(iii). The higher heating value of the fuel (Btu/scf) as measured by the most recent fuel analysis.	C	N/A	Facility	No			
9.C.15(a)(iv). ICEs - The fuel sulfur content as measured by the most recent fuel analysis.	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Semi-Annual Compliance Verification Reports**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.15(a)(v). ICEs - Documentation of any equivalent routine IC engine replacement.	C	N/A	Facility	No			
9.C.15.(a)(vi) Summary results of all compliance emission source testing and inspections performed.	C	N/A	Facility	No			
9.C.15.(a)(vii) A summary of CAM monitoring, including a count of all excursions each quarter.	C	N/A	Facility	No			
9.C.15.(b)(i) **Micro-Turbines**: The total amount of PUC quality natural gas used between the four Capstone C60 micro-turbines shall be recorded on a monthly, quarterly, and annual basis in units of standard cubic feet and million Btus	C	N/A	Facility	No			
9.C.15.(b)(ii) The annual measured heating value of the fuel gas.	C	N/A	Facility	No			
9.C.15.(b)(iii)For each month, the number of days each micro-turbine operated.	C	N/A	Facility	No			
9.C.15.(b)(iv) Micro-Turbines Sulfur Content annual total sulfur and H2S content, both in units of PPMv of fuel gas burned in Capstone C60 Micro turbines	C	N/A	Facility	No			
9.C.15.c **Hot Oil Heaters** - The volume of natural gas used (scf) shall be reported as permitted annual heat input limit for each unit (Btu/yr) divided by the District approved heating value of fuel Btu/scf)	C	N/A	Facility	No			
9.C.15(d).i. Flares - Results of the most recent high heating value analysis.	C	N/A	Facility	No			
9.C.15(d).ii. Flares -Records of the fuel gas and if conducted the purge gas sulfur analyses for each flare.	C	N/A	Facility	No			
9.C.15(d).iii. (iii) Media Bed Change: Records documenting any media bed changes for the SULFATREAT unit and the CEI-KMN units. The records shall include the dates of each change-out, the quantity of material replaced, and the type of material placed in the unit.	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Semi-Annual Compliance Verification Reports**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.15(e). Changes in the fugitive emissions component count, the total component count, and the associated emission changes at the stationary source.	C	N/A	Facility	No			
9.C.15(f).i HC Liquid Storage Tanks - The hydrocarbon liquid throughput for the prior two calendar quarters.	C	N/A	Facility	No			
9.C.15(f).ii. HC Liquid Storage Tanks - Annually: The API gravity, true vapor pressure at 67.2 degrees and the actual storage temperature of the stored hydrocarbon liquid in each storage tank.	C	N/A	Facility	No			
9.C.15(f).iii. HC Liquid Storage Tanks - Records of each tank maintenance.	C	N/A	Facility	No			
9.C.15(g) Loading Station - The daily and annual volume of HC condensate loaded and the dates of shipments from the loading rack.	C	N/A	Facility	No			
9.C.15(h). The volume (scf) of gas vented, the ROC and TRS content of the gas, and the weight (in pounds) of ROC and TRS vented.	C	N/A	Facility	No			
9.C.15(i). Glycol Unit - the total volume (in MMSCF units) of gas flow through the unit.	C	N/A	Facility	No			
9.C.15(j). Solvent Usage - On a semi-annual basis: the amount of solvent used; the % ROC by weight (as applied); the solvent density; the amount of solvent reclaimed; whether the solvent is photo-chemically reactive; and, the resulting emissions of ROC and photo-chemically reactive solvents to the atmosphere in units of pounds per month	C	N/A	Facility	No			
9.C.15(k)(i). On an annual basis, the emissions from each exempt emission unit for ROC and NOx.	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Semi-Annual Compliance Verification Reports**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.15(k)(ii) A summary of each and every occurrence of non-compliance with the provisions of this permit, District rules, and any other applicable air quality requirement (for this purpose, any breakdown report submitted to the District per Regulation V for the non-compliance event need not be repeated; a brief reference will be sufficient)	C	N/A	Facility	No			
9.C.15(k)(iii) A summary list of breakdowns and variances reported/obtained per Regulation V along with the excess emissions that accompanied each occurrence.	C	N/A	Facility	No			
9.C.15(l) Odorant System. Records documenting carbon replacement for the canister serving the odorant system. The records shall include the dates of each change-out, the quantity of material replaced, and the type of material placed in the unit.	C	Purchase Records	Odorant System Carbon Drum	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**Documents Incoporated by Reference**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.C.16.i. (i) IC Engine Particulate Matter Operation and Maintenance Plan. (Ref: Permit condition 9.C.15)	C	N/A		No			
9.C.16.ii. (ii) Emergency Episode Plan (Rule 603) (submitted in 12/2008)	C	N/A		No			
9.C.16.(iii) (iii) IC Engine I&M Plan (12/12/2011)	C	N/A		No			
9.C.16.iv. (iv) Process Monitor Calibration and Maintenance Plan. (2/8/2012)	C	N/A		No			
9.C.16.v. (v) Processed Gas Flow Measurement Plan. (2/8/2012)	C	N/A		No			
9.C.16.vi. (vi) Compliance Assurance Monitoring (CAM) Plan. (12/12/2011)	C	N/A		No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.1. Condition Acceptance - Acceptance of this operating permit by SoCalGas shall be considered as acceptance of all terms, conditions, and limits of this permit. [Re: District Rule 206]	C	N/A	Facility	No			
9.D.2. Compliance - Nothing contained within this permit shall be construed to allow the violation of any local, State or Federal rule, regulation, ambient air quality standard or air quality increment.	C	N/A	Facility	No			
9.D.3. Operation under this permit shall be conducted consistent with all data, specifications and assumptions included with the application and supplements thereof (as documented in the District's project file) and the District's analyses, as shown in this permit, of the same under which this permit is issued.	C	N/A	Facility	No			
9.D.4. Consistency with Federal, State and Local Permits - Nothing in this permit shall relax any applicable air pollution control requirement or mitigation requirement imposed on SoCalGas by any other governmental agency.	C	N/A	Facility	No			
9.D.5. Odorous Organic Sulfides - SoCalGas shall not discharge into atmosphere H2S and organic sulfides that result in a ground level impact beyond the SoCalGas property boundary in excess of either 0.06 ppmv averaged over 3 minutes or 0.03 ppmv averaged over 1 hour.	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.6. Throughput Limit The total gas processed by dehy plant 14 shall not exceed 680 MMscf/day, calculated as monthly total gas processed at the plant divided by the number of gas processing days. The monthly gas volume flow shall be measured, using District-approved flow meter(s)/device(s). SoCalGas shall monitor the monthly total volume (in MMscf units) of gas processed and the number of processing days via a log to be kept on site. The calculated daily average volume of gas withdrawn/processed shall also be recorded in this log each month	C	Gas withdrawal records [see Tab 19]	8670	No			
9.D.7. Gas Venting. Only gas from planned pipeline depressurizations may be vented without control. The total volume of gas vented from the facility due to planned pipeline depressurization shall not exceed 10 MMscf annually. If gas is vented without control from unplanned pipeline depressurizations the permittee may seek relief from this requirement under the provisions of Rule 505 or Rule 1303 F.	C	Gas venting records [Tab 18].	100903	No			
9.D.8.a. Plant-wide Gas Processing: Volume of gas withdrawn/processed per month, the number of days of withdrawal/processing per month and average daily volume (in MMscf) of gas withdrawn/processed for the month.	C	Gas withdrawal records [see Tab 19]	8670	No			
9.D.8.b. The March annual report shall list total tons per year of each criteria pollutant emitted from each emissions unit.	C	Annual Emissions Summary, Annual Emissions Inventory Questionaire [Tab33]	Facility	No			
9.D.9.a The mass emissions from the E/S DICE unit 008666 and 08668 listed above shall not exceed the values listed in Table 5.1-3 and 5.1-4. Compliance shall be based on operational, monitoring, recordkeeping and reporting conditions of this permit.	C		8666, 8668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.b The E/S DICE unit #3 008666 and 008668 listed above are subject to the following operational restrictions listed below. Emergency use operations as defined in Section d(25) of the ATCM, have no operational hours limitations.	C		8666, 8668	No			
9.D.9.b.i. The in use stationary emergency standby diesel fueld CI engines subject to this permit shall not be operated for more than 20 hours per year.	C		8666, 8668	No			
9.D.9.b.ii. The permittee may only add fuel and/or fuel additives to the engine or any fuel tank directly attached to the engine that comply with Section e(1)(B) of the ATCM.	C		8666, 8668	No			
9.D.9.c. Non-Resettable Hour Meter: The E/S DICE 008666 and 008668 Each in use stationary emergency standby diesel fueled a minimum display capability of 9999 hours unless the District has determined (in writing) that a non resettable hour meter with a different minimum display capability is appropiate in consideration of the historical use of the engine and the owner or operator's compliance history.	C		8666, 8668	No			
9.D.9.d. The permittee shall record and maintain the information listed below. Log entries shall be retained for a minimum of 36 months from the date of entry. Log entries made within 24 months of the most recent entry shall be retained on-site, either at a central location or at the engine's location, and made immediately available to the District staff upon request. Log entries made from 25 to 36 months from most recent entry shall be made available to District staff within 5 working days from request. District Form ENF-92 (Diesel-Fired Emergency Standby Engine Recordkeeping Form) can be used for this requirement.	C		8666, 8668	No			
9.D.9.d.i Emergency use hours of operation	C		8666, 8668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.d.ii Maintenance and testing hours of operation.	C		8666, 8668	No			
9.D.9.d.iii hours of operation for emission testing to show compliance with Section e(2)(B)(3) {specifically allowed for under this permit}	C		8666, 8668	No			
9.D.9.d.iv initial start up hours {if specifically allowed for under this permit}	C		8666, 8668	No			
9.D.9.d.v hours of operation to comply with requirements of NFPA 25/100 {if applicable}	C		8666, 8668	No			
9.D.9.d.vi hours of operation for all uses other than those specified in items (i)-(iv) above along with a description of what those hours were for.	C		8666, 8668	No			
9.D.9.d.vii The owner or operator shall document fuel use through the retention of fuel purchase records that account for all fuel used in the engine and all fuel purchased for use in the engine, and, at a minimum, contain the following information for each individual fuel purchase transaction	C		8666, 8668	No			
9.D.9.d.vii.A identification of the fuel purchased as either CARB Diesel, or an alternative diesel fuel that meets the requirments of the Verification Procedure or an alternative fuel or CARB Diesel fuel used with additives that meet the requirements of the Verification Procedure or any combination of the above.	C		8666, 8668	No			
9.D.9.d.vii.B amount of fuel purchased	C		8666, 8668	No			
9.D.9.d.vii.C date when the fuel was purchased	C		8666, 8668	No			
9.D.9.d.vii.D. Signature of owner or operator or representative of owner or operator who received fuel.	C		8666, 8668	No			
9.D.9.d.vii.E. Signature of fuel provider indicating fuel was delivered.	C		8666, 8668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.(e) By March 1 of each year, a written report documenting compliance with the terms and conditions of this permit and the ATCM for the previous calendar year shall be provided by the permittee to the District (Attn: Annual Report Coordinator). All logs and other basic source data not included in the report shall be made available to the District upon request. The report shall include the information required in the Recordkeeping Condition above.	C	N/A	8666, 8668	No			
9.D.9.(f) Temporary engines can replace existing engines only if the requirements (i - vi) listed herein are satisfied.	C	N/A	8666, 8668	No			
9.D.9.(f).i The permitted engine is in need of routine repair or maintenance	C	N/A	8666, 8668	No			
9.D.9.(f).ii The permitted engine that is undergoing routine repair or maintenance is returned to its original serivce within 180 days of installation of the temporary engine.	C	N/A	8666, 8668	No			
9.D.9.(f).iii The temporary replacement engine has the same or lower manufacturer rated horsepower and same or lower potential to emit of each pollutant as the permitted engine that is being temporarily replaced. At the written request of the permittee the District may approve a replacement engine with a larger rated horsepower that the permitted engine if the proposed temporary engine has manufacturer guaranteed emissions (for a brand new engine) or source test data (for a previously used engine) less than or equal to the permitted engine.	C	N/A	8666, 8668	No			
9.D.9.(f).iv. The temporary replacement engine shall comply with all rules and permit requirements that apply to the permitted engine that is undergoing routine repair or maintenance.	C	N/A	8666, 8668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.(f).v. For each permitted engine to be temporarily replaced, the permittee shall submit a completed Temporary IC Engine Replacement Notification form (ENF-94) within 14 days of the temporary engine being installed. This form shall be sent electronically to:temp-engine@sbcDistrict.org	C	N/A	8666, 8668	No			
9.D.9.(f).vi.Within 14 days upon return of the original permitted engine to service, the permittee shall submit a completed Temporary IC Engine Replacement Report form (Form ENF-95). This form shall be sent electronically to: temp-engine@sbcDistrict.org.	C	N/A	8666, 8668	No			
9.D.9.g The permittee may install a new engine in place of a permitted E/S engine, fire water pump engine or engine used for an essential public service that breaks down and can not be repaired, without first obtaining an ATC permit only if the requirements (i - v) listed herein are satisfied.	C	N/A	008666, 008668	No			
9.D.9.g.i. The permitted stationary diesel IC engine is an E/S engine, a fire water pump engine or an engine used for an essential public service (as defined by the District).	C	N/A	008666, 008668	No			
9.D.9.g.ii.The engine breaks down, cannot be repaired and needs to be replaced by a new engine.	C	N/A	008666, 008668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.g.iii. The facility provides "good cause" (in writing) for the immediate need to install a permanent replacement engine prior to the time period before an ATC permit can be obtained for a new engine. The new engine must comply with the requirements of the ATCM for new engines. If a new engine is not immediately available, a temporary engine may be used while the new replacement engine is being procured. During this time period, the temporary replacement engine must meet the same guidelines and procedures as defined in the permit condition above (Temporary Engine Replacements - DICE ATCM).	C	N/A	008666, 008668	No			
9.D.9.g.iv.An Authority to Construct application for the new permanent engine is submitted to the District within 15 days of the existing engine being replaced and the District permit for the new engine is obtained no later that 180 days from the date of engine replacement (these timelines include the use of a temporary engine).	C	N/A	008666, 008668	No			
9.D.9.g.v. For each permitted engine to be permanently replaced pursuant to the condition, the permittee shall submit a completed Permanent IC Engine Replacement Notification form (Form ENF-96) within 14 days of either the permanent or temporary engine being installed. This form shall be sent electronically to: temp-engine@sbcDistrict.org.	C	N/A	008666, 008668	No			
Any engine installed (either temporally or permanently) pursuant to this permit condition shall be immediately shut down if the District determines that the requirements of this condition have not been met.	C	N/A	008666, 008668	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.9.(h) Notification of Non-Compliance. Owners or operators who have determined that they are operating their stationary diesel-fueled engine(s) in violation of the requirements specified in Sections (e)(1) or (e)(2) of the ATCM shall notify the District immediately upon detection of the violation and shall be subject to District enforcement action.	C	N/A	008666, 008668	No			
9.D.9.(i) Notification of Loss of Exemption. Owners or operators of in-use stationary diesel-fueled CI engines, who are subject to an exemption specified in Section (c) from all or part of the requirements of Section (e)(2) of the ATCM, shall notify the District immediately after they become aware that the exemption no longer applies and pursuant to Section (e)(4)(F)(1) of the ATCM shall demonstrate compliance within 180 days after notifying the District.	C	N/A	008666, 008668	No			
9.D.10 Equipment Identification. Identifying tag(s) or name plate(s) shall be displayed on the equipment to show manufacturer, model number, and serial number. The tag(s) or plate(s) shall be issued by the manufacturer and shall be affixed to the equipment in a permanent and conspicuous position	C	N/A	Facility	No			
9.D.11 Emission Factor Revisions. The District may update the emission factors for any calculation based on USEPA AP-42 or District emission factors at the next permit modification or permit reevaluation to account for USEPA and/or District revisions to the underlying emission factors.	C	N/A	Facility	No			
9.D.12. CARB-Registered Portable Equipment. State-registered portable equipment shall comply with State registration requirements. A copy of the State registration shall be readily available whenever the equipment is at the facility. [Re: District Rule 202]	C	N/A	Facility	No			

Company Name:	**Southern California Gas Company**
Facility Name:	La Goleta Plant
Equipment Category:	**District-Only Conditions**
Part 70 Permit number :	9584-R4, PTO 13699, ATC 14287 and ATC 14159
Calendar Period (e.g., Jan.- Dec 08):	January 1st - December 31th 2014
Operating Scenario ID , if applicable :	N/A

A. Condition No.	B. C/I	C. Monitoring Method	D. Emissions Unit ID	E. Deviation? Yes / No	F. Deviation Type	G. # of Deviations	H. Breakdown # and Emission Unit ID
9.D.13. Abrasive Blasting Equipment. All abrasive blasting activities performed on La Goleta facility shall comply with the requirements of the California Administrative Code Title 17, Sub-Chapter 6, Sections 92000 through 92530.	C	N/A	Facility	No			

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Semi-Annual and Annual Reporting Requirements

Item #	Reporting Item Description	Frequency	APCD Only Requirement	Index Tab
IC Engines MU2-MU8				
1	Operating Hours	Monthly	No	6
2	Fuel Use (mscf)	Monthly	No	6
3	Fuel Heating Value (Btu/scf)	Semi-Annual	No	6
4	Fuel Sulfur Content (TRS & H2S)	Semi-Annual	No	6
5	Engine/Control Device Maintenance Data	Annual	No	6
6	I&M Plan Required Logs: Parameter Settings, Nox Levels	Quarterly	No	6
7	Equipment Tags	As Recorded	No	13
8	AFRC Setpoing Settings Data	As Performed	No	6
9	Engine Operations Outside Settings Data	Quarterly	No	6
10	Maintenance Records: Engine, Catalyst, AFRC	Quarterly	No	6
11	Control Equipment Parameters: Catalyst, Engine, AFRC, O2 sensor Replacements	Quarterly	No	6
12	CAM Indicator Data Summary	Monthly	No	6
13	Summary of Source Testing	As Performed	No	7
All Other IC Engines				
1	Operating Hours	Monthly	No	8
2	Fuel Use (mscf)	Monthly	No	8
3	Fuel Heating Value (Btu/scf)	Annual	No	9
4	Fuel Sulfur Content (TRS & H2S)	Annual	No	10
5	Engine/Control Device Maintenance Data	Annual	No	11
6	I&M Plan Required Logs: Parameter Settings, Nox Levels	Quarterly	No	12
7	Equipment Tags	As Recorded	No	13
8	Engine Hours: Fire Water Pumps & Emergency Generator	Monthly	No	8
9	Diesel Fuel:Total Sulfur & HHV	Annual	No	28
10	Equivalent Routine IC Engine Replacement	As Recorded	No	29
11	Summary of Source Testing	As Performed	No	14

Semi-Annual and Annual Reporting Requirements

Item #	Reporting Item Description	Frequency	APCD Only Requirement	Index Tab
Flares				
1	Gaseous Fuel: HHV	Annual	No	25
2	Gaseous Fuel: Sulfur Content	Annual (Tank Farm) Semi-Annual for Dehy	No	25
3	Purge Gas Sulfur Content	If Applicable	No	25
4	Media Bed Change Records	Semi-Annual	No	24
Fugitive Hydrocarbon Component Emissions				
1	Changes in Component Count and Associated Emissions	As Recorded	No	27
Hydrocarbon Liquid Storage Tanks				
1	Volume of Condensate Produced	Annual	No	20
2	API Gravity and True Vapor Pressure	Annual	No	15
3	Tank Maintenance Activity	Annual	No	20
Loading Station				
1	Volume of Condensate Shipped, Dates Shipped & # of Trucks	Monthly	No	21
Wells				
1	Volume, ROC & TRS of Gas Vented	Annual	No	18
2	Emergency Gas Vented	Semi-Annual	Yes	22
Glycol Unit				
1	Volume of Gas Flow (MMscf)	Annual	No	19
Solvent Usage				
1	Amount Used, ROC & PC Reactive Content, Emissions	Monthly	No	17
General Reporting Requirements				
1	ROC & Nox Emissions from Each Exempt Emission Unit	Annual	No	32
2	Summary of Deviations/Non-Compliance	As Recorded	No	30
3	Summary of Breakdowns/Variences	As Recorded	No	31
Micro-Turbines				
1	Fuel and Operating Data	Monthly	No	26
Hot Oil Heaters				
1	Hot Oil Heaters	In Table 5.1-1B we use the District specified heat rated default value. This assumes 8760 operating hours at the permitted fuel usage per year.		

Semi-Annual and Annual Reporting Requirements

Item #	Reporting Item Description	Frequency	APCD Only Requirement	Index Tab
	Annual Reporting			
1	Volume, Days and Average Daily Volume of Gas Withdrawn/Processed	Monthly	Yes	19
2	Total Criteria Pollutant Emissions For Each Emissions Unit, and Annual Emissions Inventory Questionnnaire	Annual	Yes	33
3	Hot Water Heaters	Annual	Yes	23

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary of Engine Use - fulfillment of 9.C.15(a)(i) and 9.C.15(a)(ii)

	MU2 DCL Intl. Ingersoll-Rand LVG-82 Serial Number: 164728 650 HP, 8 Cyls, 300 RPM			**MU3** DCL Intl. Ingersoll-Rand LVG-82 Serial Number: 164729 650 HP, 8 Cyls, 300 RPM			**MU4** DCL Intl. Ingersoll-Rand LVG-82 Serial Number: 164724 650 HP, 8 Cyls, 300 RPM		
	Operating Days	**Operating Hours**	**Fuel Consumption**	**Operating Days**	**Operating Hours**	**Fuel Consumption**	**Operating Days**	**Operating Hours**	**Fuel Consumption**
January 2014	0	0	0	0	0	0	0	0	0
Feburary 2014	0	0	0	1	3	15	4	32	168
March 2014	0	0	0	11	191	1028	17	219	1179
April 2014	0	0	0	2	10	48	4	24	127
May 2014	0	0	0	14	237	1299	7	104	568
June 2014	0	0	0	23	395	2321	28	542	3172
July 2014	0	0	0	11	152	931	18	308	1852
August 2014	0	0	0	23	426	2558	26	571	3362
September 2014	0	0	0	20	317	1926	21	325	1939
October 2014	0	0	0	20	234	1450	23	280	1698
November 2014	0	0	1	14	183	1137	14	188	1136
December 2014	0	0	1	15	252	1553	15	266	1598
Grand Total	**0**	**0**	**1.9**	**154**	**2400**	**14265.2**	**177**	**2859.0**	**16799.1**

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary of Engine L

	MU5 DCL Intl. Ingersoll-Rand LVG-82 Serial Number: 164723 650 HP, 8 Cyls, 300 RPM			**MU6** DCL Intl. Ingersoll-Rand KVG-62 Serial Number: 164727 660 HP, 6 Cyls, 330 RPM			**MU7** DCL Intl. Ingersoll-Rand KVG-62 Serial Number: 164725 660 HP, 6 Cyls, 330 RPM		
	Operating Days	**Operating Hours**	**Fuel Consumption**	**Operating Days**	**Operating Hours**	**Fuel Consumption**	**Operating Days**	**Operating Hours**	**Fuel Consumption**
January 2014	0	0	0	0	0	0	0	0	0
Feburary 2014	3	28	156	1	3	12	0	0	1
March 2014	14	153	835	8	73	385	1	5	32
April 2014	11	129	712	17	241	1199	19	277	1385
May 2014	14	180	978	24	469	2334	29	620	3108
June 2014	29	633	3750	29	643	3469	28	612	3301
July 2014	23	371	2257	26	446	2510	22	447	2517
August 2014	29	615	3685	13	236	1354	30	654	3804
September 2014	21	324	1997	18	258	1510	21	330	1922
October 2014	23	316	1976	19	288	1700	22	324	1915
November 2014	13	165	1043	12	166	980	12	160	949
December 2014	11	160	1011	17	282	1657	15	230	1353
Grand Total	**191.0**	**3073.0**	**18400.9**	**184**	**3105.0**	**17110.9**	**199.0**	**3659.0**	**20287.0**

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary of Engine L

	MU8 DCL Intl. Ingersoll-Rand KVG-62 Serial Number: 164726 660 HP, 6 Cyls, 330 RPM		
	Operating Days	**Operating Hours**	**Fuel Consumption**
January 2014	0	0	0
Feburary 2014	1	3	14
March 2014	7	54	285
April 2014	18	317	1604
May 2014	29	566	3074
June 2014	19	328	1787
July 2014	23	415	2403
August 2014	30	609	3592
September 2014	19	284	1671
October 2014	19	306	1819
November 2014	12	147	871
December 2014	14	248	1459
Grand Total	**191**	**3277.0**	**18580.6**

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Goleta plant fuel OM 3464
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.2314	**1012.3**	**911.5**	**0.5539**	**14.9263**	**85.6779**	943.8	849.8	0.5164
ETHANE	3.4601	**1773.8**	**1622.8**	**1.0382**	**1.0405**	**5.9722**	61.4	56.1	0.0359
PROPANE	1.1674	**2521.9**	**2320.4**	**1.5225**	**0.5147**	**2.9544**	29.4	27.1	0.0178
iso-BUTANE	0.1260	**3259.4**	**3006.9**	**2.0068**	**0.0732**	**0.4204**	4.1	3.8	0.0025
n-BUTANE	0.2195	**3269.8**	**3017.4**	**2.0068**	**0.1276**	**0.7323**	7.2	6.6	0.0044
iso-PENTANE	0.0406	**4010.2**	**3707.6**	**2.4911**	**0.0293**	**0.1681**	1.6	1.5	0.0010
n-PENTANE	0.0312	**4018.0**	**3715.6**	**2.4911**	**0.0225**	**0.1292**	1.3	1.2	0.0008
C6 plus	0.0475	**5194.5**	**4812.8**	**3.2521**	**0.0447**	**0.2568**	2.5	2.3	0.0015
CARBON DIOXIDE	1.0616	**0.0**	**0**	**1.5195**	**0.4671**	**2.6812**	0.0	0.0	0.0161
OXYGEN	0.0850	**0.0**	**0**	**1.1048**	**0.0272**	**0.1561**	0.0	0.0	0.0009
NITROGEN	0.5297	**0.0**	**0**	**0.9672**	**0.1483**	**0.8513**	0.0	0.0	0.0051
Totals ----->	100.000				17.4	100.0	1051.3	948.4	0.6026

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99772

Total Mol Wt. ROC C3 to C6+ = 0.8121 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1053.7 BTU/real cubic foot
LHV	950.6 BTU/real cubic foot
Specific Gravity	0.6039

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Goleta Plant Fuel OM 3464

1400558-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Tank Farm Flare Inlet

1400558-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	**0.77**	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	**0.20**	0.050	"	"	"	"	"	"	
Carbon disulfide	**0.21**	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	**4.4**	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	**2.3**	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	**3.3**	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	**11**	0.050	"	"	"	"	"	"	

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary CAM Data - fulfillment of 9.C.15(a)(vii)

Date	Average MU2 - O2 MV	Minimum MU2 - CAT Inlet Temp	Maximum MU2 - CAT Outlet Temp	Average MU3 - O2 MV	Minimum MU3 - CAT Inlet Temp	Maximum MU3 - CAT Outlet Temp	Average MU4 - O2 MV	Minimum MU4 - CAT Inlet Temp	Maximum MU4 - CAT Outlet Temp	Average MU5 - O2 MV	Minimum MU5 - CAT Inlet Temp	Maximum MU5 - CAT Outlet Temp
January 2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
February 2014	N/A	N/A	N/A	0.684	787	890	0.744	775	917	0.698	821	933
March 2014	N/A	N/A	N/A	0.717	804	979	0.743	789	952	0.699	823	971
April 2014	N/A	N/A	N/A	0.715	833	920	0.740	786	946	0.698	811	1045
May 2014	N/A	N/A	N/A	0.716	810	968	0.740	807	942	0.698	829	933
June 2014	N/A	N/A	N/A	0.713	853	988	0.740	828	969	0.699	857	970
July 2014	N/A	N/A	N/A	0.711	874	994	0.739	859	1117	0.700	884	1163
August 2014	N/A	N/A	N/A	0.716	865	1000	0.718	848	972	0.723	887	974
September 2014	N/A	N/A	N/A	0.715	866	997	0.712	861	968	0.728	883	973
October 2014	N/A	N/A	N/A	0.714	859	1010	0.713	860	970	0.731	886	1021
November 2014	N/A	N/A	N/A	0.714	869	1009	0.714	861	976	0.734	895	1026
December 2014	N/A	N/A	N/A	0.714	871	987	0.715	862	975	0.734	890	1037

Date	Average MU6 - O2 MV	Minimum MU6 - CAT Inlet Temp	Maximum MU6 - CAT Outlet Temp	Average MU7 - O2 MV	Minimum MU7 - CAT Inlet Temp	Maximum MU7 - CAT Outlet Temp	Average MU8 - O2 MV	Minimum MU8 - CAT Inlet Temp	Maximum MU8 - CAT Outlet Temp
January 2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
February 2014	0.721	826	941	N/A	N/A	N/A	0.730	805	969
March 2014	0.709	845	1096	0.714	877	1042	0.736	794	1076
April 2014	0.706	841	1071	0.717	801	1052	0.735	843	1062
May 2014	0.707	845	1067	0.722	839	1049	0.735	855	1062
June 2014	0.707	902	1085	0.723	843	1067	0.733	865	1071
July 2014	0.708	902	1097	0.724	881	1080	0.735	895	1079
August 2014	0.709	909	1108	0.727	922	1092	0.707	907	1105
September 2014	0.705	913	1119	0.723	905	1085	0.694	895	1103
October 2014	0.704	913	1105	0.725	907	1093	0.694	913	1125
November 2014	0.703	930	1110	0.725	900	1096	0.688	902	1107
December 2014	0.705	945	1103	0.723	886	1088	0.695	912	1108

N/A - Indicates unit was not operated or did not operate long enough to require logging a reading.
Oxygen Sensor mV Output Within 5% of the set point, with the set point between 650 and 875 mV.
Catalyst Inlet Temperature Greater than 610 deg F
Catalyst Outlet Temperature Between 610 and 1400 deg F

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary of CAM Excursions and Errors - fulfillment of 9.C.15(a)(vii)

Engine	Error Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Grand Total
MU2	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU3	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU4	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU5	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU6	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU7	Out of Limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0
MU8	Out of limits (excursions)	0	0	0	0	0	0	0	0	0	0	0	0	0
	System Error (during operation)	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 2-1
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 3
March 24, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Flow Rate, dscfm	797	891	824	837	
Formaldehyde (Outlet),					
ppm	< 0.572	< 0.559	< 0.631	< 0.587	
ppm @ 15% O_2	< 0.162	< 0.158	< 0.178	< 0.166	2.7
lb/hr	< 0.00213	< 0.00233	< 0.00243	< 0.00230	
g/bHp-hr	< 0.00151	< 0.00166	< 0.00173	< 0.00163	
Operating Parameters,					
Load, %	98.3	98.0	98.1	98.1	
Fuel Flow, scfh	5,399	6,036	5,583	5,673	
Heat Rate, MMbtu/hr	5.55	6.20	5.73	5.83	
Horsepower, bHp	639	637	638	638	
RPM	300	299	299	299	
Catalyst Temperature In, °F	923	921	923	922	
Catalyst Temperature Out, °F	972	969	970	970	
Lambda Sensor Voltage, mV	0.738	0.724	0.737	0.733	

Table 2-2
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 4
March 24, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Flow Rate, dscfm	914	979	979	957	
Formaldehyde (Outlet),					
ppm	< 0.590	< 0.593	< 0.578	< 0.587	
ppm @ 15% O_2	< 0.166	< 0.167	< 0.163	< 0.166	2.7
lb/hr	< 0.00252	< 0.00271	< 0.00265	< 0.00263	
g/bHp-hr	< 0.00181	< 0.00195	< 0.00190	< 0.00189	
Operating Parameters,					
Load, %	97.2	97.2	97.1	97.1	
Fuel Flow, scfh	6,192	6,632	6,632	6,485	
Heat Rate, MMbtu/hr	6.36	6.81	6.81	6.66	
Horsepower, bHp	632	632	631	631	
RPM	302	301	301	301	
Catalyst Temperature In, °F	902	909	910	907	
Catalyst Temperature Out, °F	945	953	953	950	
Lambda Sensor Voltage, mV	0.746	0.746	0.747	0.746	

Table 2-3
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 5
March 25, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.30	0.29	0.34	0.31	
Flow Rate, dscfm	917	944	941	934	
Formaldehyde (Outlet),					
ppm	< 0.551	< 0.546	< 0.572	< 0.556	
ppm @ 15% O_2	< 0.158	< 0.156	< 0.164	< 0.159	2.7
lb/hr	< 0.00236	< 0.00241	< 0.00252	< 0.00243	
g/bHp-hr	< 0.00171	< 0.00174	< 0.00182	< 0.00175	
Operating Parameters,					
Load, %	96.7	96.8	96.6	96.7	
Fuel Flow, scfh	6,118	6,300	6,264	6,227	
Heat Rate, MMbtu/hr	6.30	6.48	6.45	6.41	
Horsepower, bHp	629	629	628	629	
RPM	300	300	301	300	
Catalyst Temperature In, °F	905	905	906	905	
Catalyst Temperature Out, °F	953	953	953	953	
Lambda Sensor Voltage, mV	0.700	0.698	0.700	0.699	

Table 2-4
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 6
March 25, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Flow Rate, dscfm	910	899	1015	941	
Formaldehyde (Outlet),					
ppm	< 0.529	< 0.569	< 0.607	< 0.568	
ppm @ 15% O_2	< 0.149	< 0.161	< 0.171	< 0.160	2.7
lb/hr	< 0.00225	< 0.00239	< 0.00288	< 0.00251	
g/bHp-hr	< 0.00163	< 0.00179	< 0.00215	< 0.00185	
Operating Parameters,					
Load, %	95.2	92.0	92.0	93.1	
Fuel Flow, scfh	6,158	6,078	6,866	6,368	
Heat Rate, MMbtu/hr	6.34	6.25	7.07	6.55	
Horsepower, bHp	628	607	608	614	
RPM	330	330	330	330	
Catalyst Temperature In, °F	1023	1025	1033	1027	
Catalyst Temperature Out, °F	1068	1070	1077	1072	
Lambda Sensor Voltage, mV	0.713	0.704	0.696	0.704	

Table 2-5
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 7
March 26, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.00	0.00	0.03	0.01	
Flow Rate, dscfm	863	956	959	926	
Formaldehyde (Outlet),					
ppm	< 0.592	< 0.573	< 0.544	< 0.570	
ppm @ 15% O_2	< 0.167	< 0.162	< 0.154	< 0.161	2.7
lb/hr	< 0.00239	< 0.00256	< 0.00244	< 0.00246	
g/bHp-hr	< 0.00172	< 0.00191	< 0.00184	< 0.00182	
Operating Parameters,					
Load, %	95.3	92.3	91.2	92.9	
Fuel Flow, scfh	5,836	6,462	6,474	6,257	
Heat Rate, MMbtu/hr	6.01	6.65	6.67	6.44	
Horsepower, bHp	629	609	602	613	
RPM	331	331	331	331	
Catalyst Temperature In, °F	1008	1005	1001	1004	
Catalyst Temperature Out, °F	1037	1036	1031	1035	
Lambda Sensor Voltage, mV	0.717	0.717	0.716	0.717	

Table 2-6
Summary of Results
Southern California Gas Company
Goleta Compressor Station
Main Unit No. 8
March 26, 2014

Run	1	2	3	Average	Emission Limit
Oxygen, %	0.00	0.01	0.00	0.00	
Flow Rate, dscfm	930	984	818	911	
Formaldehyde (Outlet),					
ppm	< 0.527	< 0.587	< 0.563	< 0.559	
ppm @ 15% O_2	< 0.149	< 0.166	< 0.159	< 0.158	2.7
lb/hr	< 0.00229	< 0.00270	< 0.00215	< 0.00238	
g/bHp-hr	< 0.00170	< 0.00200	< 0.00159	< 0.00176	
Operating Parameters,					
Load, %	92.9	92.9	92.9	92.9	
Fuel Flow, scfh	6,288	6,654	5,531	6,158	
Heat Rate, MMbtu/hr	6.47	6.85	5.70	6.34	
Horsepower, bHp	613	613	613	613	
RPM	331	331	330	331	
Catalyst Temperature In, °F	1019	1015	1007	1014	
Catalyst Temperature Out, °F	1068	1065	1058	1064	
Lambda Sensor Voltage, mV	0.734	0.736	0.740	0.737	

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL129/MU#3 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 3.4.14 Inspector Name - Gutierrez, Chris.D, Chris.H/Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	8.0			
CO corrected to 15% O2	≤ 1700 PPMV	53.5			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.6°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	10.25"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL128/MU#4 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 3.4.14 Inspector Name - Eric Hunt, Chris. H/Rodrigo

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	15.0			
CO corrected to 15% O2	≤ 1700 PPMV	1,077.8			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.9°			
Fuel Pressure	3." - 9." WC	5.75"			
Manifold Vacuum	2" - 10" HG	9"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL127/MU#5 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 3.4.14 Inspector Name - Eric Hunt, Chris. H/Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	9.2			
CO corrected to 15% O2	≤ 1700 PPMV	246.20			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19.5°			
Fuel Pressure	3." - 9." WC	5.75"			
Manifold Vacuum	2" - 10" HG	7"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL265/MU#6 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 3/5/14 Inspector Name - DJ/Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	4.0			
CO corrected to 15% O2	≤ 1700 PPMV	177.5			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.6			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	7.85			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL266/MU#7 Part 70/SBAPCD Permit 9584-I

Passed As Found

Date - 3/26/14 Inspector Name - J Kustig

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)		
	Allowed	Measured		Date	Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	14.2			
CO corrected to 15% O2	≤ 1700 PPMV	750.4			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	NA			
O2	≤.6%	0.16%			
Ignition Timing	12° - 20° BTDC	19.5°			
Fuel Pressure	3." - 9." WC	5.6"			
Manifold Vacuum	2" - 10" HG	7.7"			

Number: [redacted]

Testo 350

Testo 350 XL

SN: 0.073873 /USA

The Gas Co. AQCS
JSL
805 561-3011

MU#7

Settings:

Sample time: 16 min
Rinse time: 15 min
Data rate: 15 sec
Calc. Mean value: Yes

Calc. average mean:

101.2	°F	°F
60.0	°C	°C
0.16	%	%
2635	PPM	CO
	PPM	CH2.6
15.0	%	O2 ref
0.98	l/m	Pump
5.7	V	Batt
		Time
50	PPM	NO
0.0	PPM	NO2
	PPM	CNO

from: 03/26/14 12:44:22
to: 03/26/14 13:01:44

Number: 0064

Goleta Storage
MU7
3/26/2014

Measured Parameters	Units	Run 1
Oxygen, O_2	%vd	0.16
Carbon Monoxide, CO	ppmvd	2638
Nitric Oxide, NO	ppmvd	50
Nitrogen Dioxide, NO_2	ppmvd	0
Nitrogen Oxides, NO_x	ppmvd	50

Calculated Results	Units	Run 1
CO	ppmvd @ 15%O_2	750.4
NO_x	ppmvd @ 15%O_2	14.2

CO ppmvd @ 15% O_2 = (5.9/(20.9-%O_2)) * ppmvd CO

NO_x ppmvd @ 15% O_2 = (5.9/(20.9-%O_2)) * ppmvd NO_x

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL267/MU#8 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 3/5/14 Inspector Name - DJ Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	29.0			
CO corrected to 15% O2	≤ 1700 PPMV	1127.8			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19.8			
Fuel Pressure	3." - 9." WC	5.6			
Manifold Vacuum	2" - 10" HG	7.65			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9 Part 70/SBAPCD Permit 9584-R4

Passed / As Found

Date - 3-3-14 Inspector Name - Eric Hunter / Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	27.3			
CO corrected to 15% O2	≤ 4500 PPMV	152.6			
O2	≥ 13.5%	14.6			
Ignition Timing	0-10°	7°			
Engine Speed	≤ 305 RPM	302			

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION Goleta EQUIPMENT TESTED LVG-82.

Engine Unit		Unit # 3	Unit # 4	Unit # 5	Unit #	Unit #
Run #		As Found	As Found	As Found		
Date		3/4/14	3/4/14	3/4/14		
Time	Start	9:32	11:53	14:21		
	Finish	9:51	12:13	14:43		

Barometer	(in.Hg)	31.00	30.09	30.15		
Dry Bulb	(F)	67	70	73		
Wet Bulb	(F)	59	62	63		

Lambda Sensor (Base) (Opt) (mV)	EGO 1	782	782	801		
	EGO 3	712	740	698		
Rated HP		650	650	650		
Actual HP		603	594	596		
% of Rated Load		92.8	91.4	91.7		
RPM Rated/Actual		300/301	300/297	300/299		

~~Manifold Depress.~~ Eng. Vac (in.Hg)		9.21	9.3	8.6		
Timing	(BTDC)	18.6	18.9	19.5		
Stack Temp (F)	Up stream	914	886	896		
	Down stream	953	933	938		
Oil Pressure	(psig)	51	49.3	52.2		

Engine Hours	(hr)	35,318	31,811	15,714		
Catalyst Hours	(hr)					
Fuel Flow	(scfh)	5987	5,799	5,883		
Fuel Man. Press.* 5.7 (IWC)		5.7	5.7	5.7		

NO_x	(ppm)	Up stream	2,172.4	2,099.6	2,279.9		
		Down stream	28.4	153.2	32.6		
CO	(ppm)	Up stream	2,153.0	5533.3	2,430.6		
		Down stream	189.2	3812.3	870.5		
Total HC	(ppm)	Down stream	163.8	285.4	134.2		
CO_2	(%)	Up stream	11.7	11.6	11.8		
		Down stream	12.4	12.2	12.2		
O_2	(%)	Up stream	—	—	—		
		Down stream	0.0	0.0	0.0		

NO_x @ 15% O_2	(ppm)	Down stream	8.0	15.0	9.2		
CO @ 15% O_2	(ppm)	Down stream	53.5	1,077.8	244.21		
HC @ 15% O_2	(ppm)	Down stream	46.3	80.7	37.9		

TEST CONDUCTED BY C. Rodriguez

* Record measured units (psig, "Hg, "wc)

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION Goleta EQUIPMENT TESTED KGV-62

Engine Unit		Unit # 6	Unit # 8	Unit #	Unit #	Unit #
Run #		As Found	As Found			
Date		3/5/14	3/5/14			
Time	Start	10:52	14:12			
	Finish	11:13	14:32			

Barometer	(in.Hg)	30.16	30.12			
Dry Bulb	(F)	65	65			
Wet Bulb	(F)	60	59			

Lambda Sensor (mV)	EGO 1	792	801			
	EGO 3	703	740			
Rated HP		660	660			
Actual HP		645	653			
% of Rated Load		97.7	98.9			
RPM Rated/Actual		330/331	330/330			
Suction/Discharge (PSIG)		918/1,720	940/1731			
~~Manifold Depress.~~ Eng Vac.	(in.Hg)	7.8	7.3			
Timing	(BTDC)	18.6	19.8			
Stack Temp (F)	Up stream	1,047	1,013			
	Down stream	1,100	1,060			
Oil Pressure	(psig)	47	57			

Engine Hours	(hr)	52,953	43,764			
Catalyst Hours	(hr)	—	—			
Fuel Flow	(scfh)	6,085	6,094			
Fuel Man. Press.*	(IWC)	5.7	5.6			

NO_x	(ppm)	Up stream	2,490.5	2,195.5			
		Down stream	14.3	102.6			
CO	(ppm)	Up stream	3,603.1	5,151.1			
		Down stream	628.1	3,993.3			
Total HC	(ppm)	Down stream	303.6	331.3			
CO_2	(%)	Up stream	11.6	11.5			
		Down stream	12.4	12.1			
O_2	(%)	Up stream	—	—			
		Down stream	0.0	0.0			

NO_x @ 15% O_2	(ppm)	Down stream	4.0	29.0			
CO @ 15% O_2	(ppm)	Down stream	177.5	1,527.8			
HC @ 15% O_2	(ppm)	Down stream	85.8	93.6			

TEST CONDUCTED BY C. Rodriguez

* Record measured units (psig, "Hg, "wc)

Field Data Sheet

ENGINES WITH PC NOX REDUCTION SYSTEMS

Location: GOLETA **Equipment:** CB GMVC-10C

		UNIT # 9	UNIT #
Run #		As Found	
Date		3/3/14	
Time S/E:		15:45 / 16:12	
Barometer	(in Hg)	30.12	
Dry Bulb	(°F)	64	
Wet Bulb	(°F)	58	
Rated HP or Rated ~~KW~~ BHP		1,100	
Actual HP or Actual ~~KW~~ BHP		1,017	
% of Rated Load		92.5	
RPM (rated/actual)		300/300	
Engine Run Time	(Hrs)	62449	
AIR MANIFOLD PRESS	(in Hg)	6.8	
Air Manifold Temp	(°F)	93	
Fuel Manifold Pressure	(psig)	19.9	
Timing	(°BTDC)	7	
~~Fuel Flow~~	~~(acfh)~~		
Fuel Temperature	(°F)	69.9	
Fuel Pressure	(psig)	58	
Fuel Flow	(scfh)	8222	
NOX	(ppm)	29.2	
CO	(ppm)	163.5	
Total HC	(ppm)	865.5	
CO2	(%)	3.8	
O2	(%)	14.6	
NOX corrected @ 15% O2	(ppm)	27.3	
CO corrected @ 15% O2	(ppm)	152.6	
HC corrected @ 15% O2	(ppm)	807.9	

* Record measured units,: psig, in. Hg, or in. WC, ppm, etc...

Test Conducted By: Rodriguez

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL129/MU#3 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/10/14 Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	14.6			
CO corrected to 15% O2	≤ 1700 PPMV	537.7			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.6°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	9.4".			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL128/MU#4

Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/10/14

Inspector Name - ERIC HART / & LOZANO MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	15.2			
CO corrected to 15% O2	≤ 1700 PPMV	664.9			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.9°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	9.5"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL127/MU#5

Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/10/14

Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	8.2			
CO corrected to 15% O2	≤ 1700 PPMV	338.1			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	8.3"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL265/MU#6 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/11/14 Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	4.5			
CO corrected to 15% O2	≤ 1700 PPMV	267.1			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18.5°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	8.7"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL266/MU#7

Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/11/14

Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	10.6			
CO corrected to 15% O2	≤ 1700 PPMV	937.7			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19.5°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	8.5"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL267/MU#8 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/11/14 Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	12.4			
CO corrected to 15% O2	≤ 1700 PPMV	916.3			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/A			
O2	≤.6%	0.6			
Ignition Timing	12° - 20° BTDC	19.8°			
Fuel Pressure	3." - 9." WC	6"			
Manifold Vacuum	2" - 10" HG	7.9"			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9

Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/9/14 / 6/10/14

Inspector Name - ERIC HART / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	11.0			
CO corrected to 15% O2	≤ 4500 PPMV	256.8			
O2	≥ 13.5%	15.2			
Ignition Timing	0-10°	6°			
Engine Speed	≤ 305 RPM	300			

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION Goleta EQUIPMENT TESTED

Engine Unit		Unit # 3	Unit # 4	Unit # 5	Unit # 6	Unit # 7
Run #		AS FD	AS FD	AS FD	AS FD	AS FD
Date		6/10/14	6/10/14	6/10/14	6/11/14	6/11/14
Time	Start	12:02 PM	14:04	15:51	9:33	10:29
	Finish	12:29	14:25	15:13	10:00	10:53

Barometer	(in.Hg)	29.90	29.90	29.90	29.9	29.90
Dry Bulb	(F)	68	69.5	70.0	66.0	65.5
Wet Bulb	(F)	63	63.5	64.0	62.5	64.0

Lambda Sensor (mV)	EGO 1		.843	.768	.726	
	EGO 3	.712	.740	.707	.731	.721
Rated HP		650	650	650	660	660
Actual HP		603	601	601	600	602
% of Rated Load		92.7	92%	92.4%	90.9	91.7%
RPM Rated/Actual	300/300	300/300	300/294	300/308	339/332	330/330
Suction/Discharge		915/1560	935/1572	938/1569		927/1630
Manifold Depress.	(in.Hg)	9.0	9.0	8.3	8.7	8.4
Timing	(BTDC)	18.6	18.9	19.5	18.5	19.5
Stack Temp (F)	Up stream	930	900	940	1059	1039
	Down stream	970	940	954	1079	1065
Oil Pressure	(psig)					

Engine Hours	(hr)	35850	32302	16363	53929	45143
Catalyst Hours	(hr)	—				
Fuel Flow	(scfh)	5939	5851	5981	5747	5620
Fuel Man. Press.*	("WC)	5.9	5.8	5.9	5.8	5.8

NO_x	(ppm)	Up stream	2342.4	2450.8	2509.3	2510.4	2291.0
		Down stream	51.5	54.0	29.2	15.8	37.5
CO	(ppm)	Up stream	3234.7	3918.3	2652.3	3578.6	4640.3
		Down stream	1903	2353.2	1196.7	945.4	3318.5
Total HC	(ppm)	Down stream	—	—	—	—	—
CO_2	(%)	Up stream	11.8	11.7	11.8	11.6	11.6
		Down stream	11.9	11.9	12.0	11.8	11.7
O_2	(%)	Up stream					
		Down stream	0.0	0.0	6.0	6.0	0.0

NO_x @ 15% O_2	(ppm)	Down stream	14.6	15.2	8.2	4.5	10.6
CO @ 15% O_2	(ppm)	Down stream	537.1	664.9	338.1	267.1	937.7
HC @ 15% O_2	(ppm)	Down stream	—	—	—	—	—

TEST CONDUCTED BY LOZANO/MAR

* Record measured units (psig, "Hg, "wc)

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION Goleta EQUIPMENT TESTED _____

Engine Unit		Unit # 8	Unit #	Unit #	Unit #	Unit #
Run #						
Date		6/11/14				
Time	Start	11:29				
	Finish	11:50				

Barometer	(in.Hg)	29.90				
Dry Bulb	(F)	67.5				
Wet Bulb	(F)	62.0				

Lambda Sensor	(mV)	EGO 1	0.796				
		EGO 3	0.735				
Rated HP			660				
Actual HP			593				
% of Rated Load			89.8				
RPM Rated/Actual			331				
Suction/Discharge			917/1628				
Manifold Depress.		(in.Hg)	7.9				
Timing		(BTDC)	19.8				
Stack Temp	(F)	Up stream	1009				
		Down stream	1062				
Oil Pressure		(psig)	56				

Engine Hours	(hr)	44775				
Catalyst Hours	(hr)					
Fuel Flow	(scfh)	5148				
Fuel Man. Press.*	(w.c.)	5.7				

NO_x	(ppm)	Up stream	2261.1				
		Down stream	43.7				
CO	(ppm)	Up stream	4723.0				
		Down stream	3242.7				
Total HC	(ppm)	Down stream	—				
CO_2	(%)	Up stream	11.6				
		Down stream	11.7				
O_2	(%)	Up stream					
		Down stream	0.0				

NO_x @ 15% O_2	(ppm)	Down stream	12.4				
CO @ 15% O_2	(ppm)	Down stream	916.3				
HC @ 15% O_2	(ppm)	Down stream	—				

TEST CONDUCTED BY LOZANO/MAR

* Record measured units (psig, "Hg, "wc)

FIELD DATA SHEET

ENGINES WITH PC NOx REDUCTION SYSTEMS

LOCATION Goleta EQUIPMENT _____

		Unit # 4	Unit #	Unit #
Run #		AS FOUND		
Date		6/10/14		
Time		8:53 AM		
		9:15 AM		
Barometer	(in. Hg)	29.88		
Dry Bulb	(F)	64		
Wet Bulb	(F)	60		
ENGINE HRS		6344.2		
Rated HP		1100		
Actual HP		1009		
% of Rated Load		91 %		
RPM (rated / actual)		300 / 300		
F-2 Air Manifold Press				
[redacted] Hg	([redacted])	9.5		
Air Manifold Temp	(F)	109		
Fuel Manifold Press	(psig)	22.8		
Pilot Fuel Press	(psig)			
Timing	(°BTDC)	6°		
Stack Temp	(F)			
Suction / Discharge		915 / 1561		
Fuel Flow	(acfh)			
Fuel Temp	(F)			
Fuel Press	(psig)			
Fuel Flow	(scfh)	8825 SCFH		
NOx	(ppm)	10.7		
CO	(ppm)	250.2		
Total HC	(ppm)	—		
CO2	(%)	3.3		
O2	(%)	15.2		
NOx @ 15%O2	(ppm)	11.0		
CO @ 15%O2	(ppm)	256.8		

TEST CONDUCTED BY LOZANO / MAR

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL129/MU#3 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/12/14 Inspector Name - CHRIS HARWIN / G. RACH, C. Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	10.3			
CO corrected to 15% O2	≤ 1700 PPMV	356.7			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	8.8			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL128/MU#4 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/12/14 Inspector Name - Chris Harwin / C. Rodriguez, G. Race

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	29.8	[illegible]	[illegible]	12.6
CO corrected to 15% O2	≤ 1700 PPMV	1,555.5	mid .720		576.6
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R	New .772		
O2	≤.6%	0.0			0
Ignition Timing	12° - 20° BTDC	19			19
Fuel Pressure	3." - 9." WC	5.7			5.7
Manifold Vacuum	2" - 10" HG	8.8			8.8

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL127/MU#5 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/13/14 Inspector Name - CHRIS HARWIN/M. Bell, C Rodriguez, G. Raca

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	5.5	optimized SP	8/13/14	5.5
CO corrected to 15% O2	≤ 1700 PPMV	78.7			41.4
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R	OLD .698 NEW .731		
O2	≤.6%	0.0			0
Ignition Timing	12° - 20° BTDC	19			19
Fuel Pressure	3." - 9." WC	5.8			5.8
Manifold Vacuum	2" - 10" HG	8.5			8.5

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL265/MU#6 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/13/14 Inspector Name - CHRIS DE LA LUZ/M. Bell, C. Rodriguez, G. Rucu

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	6.1			
CO corrected to 15% O2	≤ 1700 PPMV	295.5			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18°			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	7.6			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL266/MU#7 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/13/14 Inspector Name - CHRIS HARWIN/M. Bell, C. Rodriguez, G. Ruca

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	8.5			
CO corrected to 15% O2	≤ 1700 PPMV	718.1			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.9			
Manifold Vacuum	2" - 10" HG	7.8			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL267/MU#8 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/14/14 Inspector Name - CHRIS HARWIN / M. Bell, C. Rodriguez, G. Racu

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	31.8	[illegible]	8/14/14	41.1
CO corrected to 15% O2	≤ 1700 PPMV	1658.8	[illegible]		1609.9
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	N/R	OLD 770 NEW 689		
O2	≤.6%	0.0			0
Ignition Timing	12° - 20° BTDC	20			20
Fuel Pressure	3." - 9." WC	5.6			5.6
Manifold Vacuum	2" - 10" HG	7.4			7.4

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

OPT set-pt change — MIW — May

LOCATION Goleta EQUIPMENT TESTED MU#3

Engine Unit		Unit # 3	Unit # 4	Unit # 4	Unit # 4	Unit # 4	Unit # 4 set point 4
Run #		As Found	As Found	(1)	Set Point 2	Set Point 3	
Date		8/12/14	8/12/14	8/12/14	8/12/14	8/12/14	8/12/14
Time	Start	12:33	13:52	14:55	16:18	16:44	17.09
	Finish	12:52	14:08	16:15	16:39	16:59	17.25
Barometer	(in.Hg)	30.03	30.03	30.02	30.00	30.00	29.99
Dry Bulb	(F)	74	76	77	77	77	76
Wet Bulb	(F)	68	66	66	66	66	66
Lambda Sensor (mV)	EGO 1	782	782	782	801	801	801
	EGO 3	712	740	740	712	679	745
Rated HP		650	650	650	650	650	650
Actual HP		597	597	597	598	598	598
% of Rated Load		91.9	91.9	91.9	92.0	92.0	92.0
RPM Rated/Actual		300/301	300/302	300/301	300/301	300/302	300/300
Engine ~~Manifold Depress.~~ Vacuum	(in.Hg)	8.9	8.9	9.1	9.1	9.0	9.0
Timing	(BTDC)	18.6	18.9	18.9	18.9	18.9	18.9
Stack Temp (F)	Up stream	917	906	909	910	910	910
	Down stream	936	944	950	951	954	950
Oil Pressure	(psig)	51.0	49.6	49.4	49.5	49.5	49.5
Suct/Discharge		931/1,674	948/1,673	942/1,673	934/1,672	931/1671	928/1672
Engine Hours	(hr)	36,348	33,126	33,127	33,128	33129	33129
Catalyst Hours	(hr)	—	—	—	—	—	—
Fuel Flow	(scfh)	6,012	5,904	—	5,410	5519	5408
Fuel Man. Press.* (Mamie with co)	("WC)	5.7	5.7	5.8	5.8	5.8	5.8
NO_x	(ppm) Up stream	2136.3	1,923.5	2222.5	2252.2	2312.9	2109.2
	(ppm) Down stream	36.6	105.6	69.1	62.2	45.2	78.0
CO	(ppm) Up stream	3,759.1	6,238.8	3796.0	3464.3	2915.0	4636.8
	(ppm) Down stream	1,262.2	105.6	2435.1	2041.6	1089.7	3667.3
Total HC	(ppm) Down stream	—	—	—	—	—	—
CO_2	(%) Up stream	11.7	11.6	12.0	12.0	12.0	11.9
	(%) Down stream	11.8	11.5	12.0	12.0	12.0	11.9
O_2	(%) Up stream	—	—	—	—	—	—
	(%) Down stream	0.0	0.0	0.0	0.0	0.0	0.0
NO_x @ 15% O_2	(ppm) Down stream	10.3	29.8	19.5	17.6	12.8	22.0
CO @ 15% O_2	(ppm) Down stream	356.7	1,555.5	687.9	576.6	307.8	1035.8
HC @ 15% O_2	(ppm) Down stream	—	—	—	—	—	—

TEST CONDUCTED BY _____

* Record measured units (psig, "Hg, "wc)

(1) Recheck after tuning with same setpoint.

2

3 EGO3 set to 679. (min) 4. MAX 745

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION Goleta EQUIPMENT TESTED _____

Engine Unit		Unit # 5	Unit # 5	Unit # 5	Unit # 5	Unit # 6
Run #		As Found	Opt (1)	MAX	MIN	As Found
Date		8/13/14	8/13/14	8/13/14	8/13/14	8/13/14
Time	Start	/	11:26	12:40	13:22	14:29
	Finish	10:33	12:29	12:56	13:38	14:51

Barometer	(in.Hg)	30.04	30.05	30.05	30.03	30.04
Dry Bulb	(F)	70	74	75	75	75
Wet Bulb	(F)	65	66	67	67	67

Lambda Sensor (mV)	EGO 1	801	810	810	810	792
	EGO 3	698	731	764	698	703
Rated HP		600	603	650	650	660
Actual HP		650	650	603	603	621
% of Rated Load		92.3	92.3	92.3	92.3	94.1
RPM Rated/Actual		300/300	300/300	300/299	300/298	/330
Suction/Disch		946/1,679	929/1684	928/1686	930/1686	938/1687
Engine Manifold Depress. Vacuum	(in.Hg)	8.5	8.1	8.1	8.1	7.6
Timing	(BTDC)	19.5	19.5	19.5	19.5	18.6
Stack Temp (F)	Up stream	911	912	911	912	1059
	Down stream	962	958	956	960	1104
Oil Pressure	(psig)	52.3	52.0	52.1	52.1	52

Engine Hours	(hr)	17,355	17,357	17358	17358	55,035
Catalyst Hours	(hr)	—	—	—	—	—
Fuel Flow	(scfh)	5,950	6,025	6020	6020	5,913
Fuel Man. Press.*	(PSIG)	5.8	5.8	5.8	5.8	5.8

NO_x	(ppm)	Up stream	2111.7	1986.6	1860.6	1973.5	1970.8
		Down stream	19.6	19.8	25.0	26.2	21.6
CO	(ppm)	Up stream	2098.3	2810.8	3775.9	2273.7	3710.2
		Down stream	278.4	1456.2	2756.1	526.3	1046.1
Total HC	(ppm)	Down stream	—	—	—	—	—
CO_2	(%)	Up stream	11.9	11.9	11.82	11.86	11.6
		Down stream	11.6	11.5	11.5	11.6	11.6
O_2	(%)	Up stream	—	—	—	—	—
		Down stream	0.0	0.0	0.01	0.01	0.0

NO_x @ 15% O_2	(ppm)	Down stream	5.5	5.5	7.1	7.4	6.1
CO @ 15% O_2	(ppm)	Down stream	78.7	411.4	778.4	148.6	295.5
HC @ 15% O_2	(ppm)	Down stream	—	—	—	—	—

TEST CONDUCTED BY _____

* Record measured units (psig, "Hg, "wc)

4) EGO 3 @ (731)

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION GOLETA EQUIPMENT TESTED As Noted

Engine Unit		Unit # 7	Unit # 8	Unit # 8 *	Unit # 8	Unit # 8	unit # 8
Run #		As found	As Found	Optimum 1	Optimum 2	MAX	MIN
Date		8/13/14	8/14/14	8/14/14	8/14/14	8/14/14	8/14/14
Time	Start	15:32	9:24	11:35	12:34	13:30	13:57
	Finish	15:56	9:46	11:57	12:55	13:47	14:42

Barometer	(in.Hg)	30.02	30.04	30.05	30.05	30.04	30.04
Dry Bulb	(F)	75	78	74	74	75	77
Wet Bulb	(F)	67	64	67	67	67	67

Lambda Sensor (mV)	EGO 1	764	801	745	740	740	740
	EGO 3	721	740	698	689	721	656
Rated HP		660	660	660	660	660	660
Actual HP		622	628	628	630	627	623
% of Rated Load		94.3	95.2	95.2	95.5	95.0	
RPM Rated/Actual		300/328	330/330	330/329	330/329	330/329	330/329
Engine Suction / Discharge		939/1686	914/1,688	910/1688	906/1689	910/1,682	920/1683
Manifold Depress. Vacuum	(in.Hg)	7.8	7.20	7.0	7.1	7.2	7.2
Timing	(BTDC)	19.5	19.8	19.8	19.8	19.8	19.8
Stack Temp (F)	Up stream	1026	1,026	1022	1009	1001	1002
	Down stream	1057	1,068	1073	1062	1,051	1061
Oil Pressure	(psig)	50.3	55	55	56	56	56

Engine Hours	(hr)	46268	45,652	45655	45656	45,656	45657
Catalyst Hours	(hr)	—	—	—	—	—	—
Fuel Flow	(scfh)	5736	5,965	5996	6055	6016	5927
Fuel Man. Press.*	(PSIG)	5.8	5.7	5.7	5.7	5.7	5.7

NO_x	(ppm)	Up stream	1577.3	1840.4	1912.2	415.1	— *2	—
		Down stream	30.2	112.5	57.5	39.2	131.4	20.3
CO	(ppm)	Up stream	4076.4	—	4763.7	4115.1	—*2	2330.2
		Down stream	2542.5	5870.9	3443.1	2513.5	5207.8	1119.4
Total HC	(ppm)	Down stream	—	—	—	—	—	—
CO_2	(%)	Up stream	11.6	11.7	11.7	11.7	11.7	0.03
		Down stream	11.5	11.4	11.5	11.6	11.3	9.0
O_2	(%)	Up stream	—	—	—	—	—	—
		Down stream	0.0	0.0	0.0	0.0	0.0	0.05

NO_x @ 15% O_2	(ppm)	Down stream	8.5	31.8	16.2	11.1	37.1	6.0
CO @ 15% O_2	(ppm)	Down stream	718.1	1658.8	972.4	709.9	1470.9	382.3
HC @ 15% O_2	(ppm)	Down stream	—	—	—	—	—	

TEST CONDUCTED BY _____

* Record measured units (psig, "Hg, "wc)

* EGO 3 - set point change 698 MAX @ .721.

* Analyzer defective CAL GOD

FIELD DATA SHEET

ENGINES WITH NSCR NOX REDUCTION CATALYST SYSTEMS

LOCATION GOLETA EQUIPMENT TESTED AS NOTED

Engine Unit		Unit # 7	Unit # 4	Unit #	Unit #	Unit #
Run #		Optimum	Optimum			
Date		8/14/14	8/14/14			
Time	Start	15:15	16:02			
	Finish	15:27	16:15			

Barometer	(in.Hg)	30.02	30.02			
Dry Bulb	(F)	77	75			
Wet Bulb	(F)	67	66			

Lambda Sensor (mV)	EGO 1	764	801			
	EGO 3	721	740			
Rated HP		660	650			
Actual HP		620	605			
% of Rated Load		94.0	93.1			
RPM Rated/Actual		300/329	300/299			
Engine Suction/Discharge		936/1684	939/1691			
Manifold Depress. Vacuum	(in.Hg)	7.7	8.7			
Timing	(BTDC)	19.5	18.9			
Stack Temp (F)	Up stream	1030	940			
	Down stream	1059	1691			
Oil Pressure	(psig)	50.2	49.5			

Engine Hours	(hr)	46287	33,176			
Catalyst Hours	(hr)	—	—			
Fuel Flow	(scfh)	5826	5,905			
Fuel Man. Press.*	(PSIG)	5.7	5.8			

NO_x	(ppm)	Up stream	—	—	—	—	—
		Down stream	48.3	62.0			
CO	(ppm)	Up stream	5038.6	3897.6			
		Down stream	3761.6	2521.0			
Total HC	(ppm)	Down stream	—	—	—	—	—
CO_2	(%)	Up stream	11.58	11.66			
		Down stream	11.50	11.6			
O_2	(%)	Up stream	—	—	—	—	—
		Down stream	0.01	0.01			

NO_x @ 15% O_2	(ppm)	Down stream	13.6	17.5			
CO @ 15% O_2	(ppm)	Down stream	1062.4	712.1			
HC @ 15% O_2	(ppm)	Down stream	—				

TEST CONDUCTED BY _____

* Record measured units (psig, "Hg, "wc)

Field Data Sheet

ENGINES WITH PC NOX REDUCTION SYSTEMS

Location: GOLETA **Equipment:** CB GMVC-10C

		UNIT # 9	UNIT #
Run #		AS F	
Date		8/12/14	
Time			
E			
Barometer	(in Hg)	30.03	
Dry Bulb	(°F)	70	
Wet Bulb	(°F)	65	
Rated HP or Rated KW		1100	
Actual HP or Actual KW		1,054	
% of Rated Load			
RPM (rated/actual)		300 / 308	
Engine Run Time	(Hrs)	64,256.7	
F2 Air Manifold Press	PSIG	11.4	
Air Manifold Press	(in Hg)	15	
Air Manifold Temp	(°F)	126	
Fuel Manifold Pressure	~~(psig)~~	11.5	
Timing	(°BTDC)	6.6°	
Suction/Discharge		934/1,065	
Fuel Flow SCFM	~~(acfh)~~	1068	
Fuel Temperature	(°F)	519	
Fuel Pressure	(psig)	24.8 *	
Fuel Flow	(scfh)	9068	

NOX	(ppm)	13.1	
CO	(ppm)	297.8	
Total HC	(ppm)	—	
CO2	(%)	3.1	
O2	(%)	15.2	

NOX corrected @ 15% O2	(ppm)	13.4	
CO corrected @ 15% O2	(ppm)	306.0	
HC corrected @ 15% O2	(ppm)	—	

* Record measured units,: psig, in. Hg, or in. WC, ppm, etc...

Test Conducted By: _____

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL129/MU#3 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/21/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	10.4			
CO corrected to 15% O2	≤ 1700 PPMV	376.4			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.10			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	8.4			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL128/MU#4 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/21/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	12.4			
CO corrected to 15% O2	≤ 1700 PPMV	634.0			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	18			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	8.4			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 8AL127/MU#5 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/22/14 Inspector Name - CHRIS HARMON / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	10.7			
CO corrected to 15% O2	≤ 1700 PPMV	640.2			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.7			
Manifold Vacuum	2" - 10" HG	7.8			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL265/MU#6 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/21/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	6.7			
CO corrected to 15% O2	≤ 1700 PPMV	337.3			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	7.6			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL266/MU#7 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/22/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	9.6			
CO corrected to 15% O2	≤ 1700 PPMV	864.3			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.8			
Manifold Vacuum	2" - 10" HG	7.6			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 6EL267/MU#8 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/22/14 Inspector Name - CHRIS HARWIN/J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	90% reduction or ≤ 50 PPMV	5.1			
CO corrected to 15% O2	≤ 1700 PPMV	26.1			
ROC (HC) corrected to 15% O2	Not Required except in Annual Source Test	—			
O2	≤.6%	0.0			
Ignition Timing	12° - 20° BTDC	19			
Fuel Pressure	3." - 9." WC	5.7			
Manifold Vacuum	2" - 10" HG	7.1			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/20/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	41.4			
CO corrected to 15% O2	≤ 4500 PPMV	146.7			
O2	≥ 13.5%	14.3			
Ignition Timing	0-10°	6.6			
Engine Speed	≤ 305 RPM	300			

PARKER BOILER CO.

5930 Bandini Boulevard
Los Angeles, CA 90040
Tel (323) 727-9800
Fax (323) 722-2848

DATE INVOICED	INVOICE NO
DATE SHIPPED	SALES ORDER NO
4-23-14	174037

CUSTOMER'S ORDER NO	DATE ORDERED	SOLD BY
		Henry

SOLD TO

SHIP TO
the Gas Company
1171 More Ranch Rd
Goleta, CA

SHIP VIA	BOILER MODEL & SERIAL NUMBER	TERMS
S/O 966168	G2304RL 60369 - 60449	☐ C.O.D. ☐ NET 30 DAYS

QTY.	PARTS & SERVICE PART NO. AND DESCRIPTION	UNIT PRICE	AMOUNT
*	tune Up		
*	check Safeties & limits		
*	S/N 60369 = H-201B / S/N 60449 = H201A		
*	Customer Needs Last Conbustion Report		
*	Boiler 60369 gauge at pilot does not work		

ABOVE GOODS AND SERVICES SATISFACTORILY RECEIVED UNDER TERMS SHOWN SUBJECT TO CONDITIONS ON BACK OF CUSTOMER'S COPY

PRINT NAME Brett Fraley

Brett Fraley

CASH RECEIVED

CASH RECEIVED BY

TOTAL MATERIAL	
RESALE ☐ SALES TAX %	
HRS LABOR RATE	
HRS RATE	
OTHER	
TOTAL	

ACKNOWLEDGMENT

THIS IS AN EXACT COPY OF YOUR ORDER.

IF IT IS NOT IN ACCORDANCE WITH YOUR UNDERSTANDING PLEASE NOTIFY US AT ONCE WHEN COMMUNICATING WITH US BE SURE TO REFER TO OUR SALES ORDER NUMBER SHOWN ABOVE ABOVE PRICE DOES NOT INCLUDE INSTALLATION ON ANY SET UP MATERIALS THE ACCEPTANCE OF THE ORDER SHALL BE UPON THE TERMS AND CONDITIONS AS SPECIFIED AND AS COVERED BY THE "STANDARD CONDITIONS OF SALE" ON THE REVERSE SIDE. COMPLETE INSTRUCTIONS ARE FURNISHED WITH EACH BOILER

THANK YOU

ACKNOWLEDGMENT

S/N 60449
HF
HZ55
GAS 4.6
MAN #1.6
Draft 0 - windy
Incoming gas 10

201A

BACHARACH

BACHARACH, INC.
PCA 3
SN: UQ1003

Time: 10:10:49 AM
Date: 04/23/14

Fuel
NGAS

O_2	5.5 %
CO	1 ppm
Eff	80.1 %
CO_2	8.7 %
T-Stk	457 °F
T-Air	85.4 °F
EA	31.7 %
CO(3)	1 ppm
NO	22 ppm
NO_2	0 ppm
NOx	22 ppm
SO_2	*** ppm
NO(3)	25 ppm
NO_2(3)	0 ppm
NOx(3)	25 ppm
SO_2(0)	*** ppm

Comments:

201A

BACHARACH

BACHARACH, INC.
PCA 3
SN: UQ1003

Time: 10:16:16 AM
Date: 04/23/14

Fuel
NGAS

O_2	5.1 %
CO	1 ppm
Eff	85.5 %
CO_2	8.9 %
T-Stk	274 °F
T-Air	82.9 °F
EA	29.0 %
CO(3)	1 ppm
NO	23 ppm
NO_2	0 ppm
NOx	23 ppm
SO_2	*** ppm
NO(3)	28 ppm
NO_2(3)	0 ppm
NOx(3)	27 ppm
SO_2(0)	*** ppm

Comments:

HF
HZ 20
GAS .8
MAN 4
Draft 0 windy
Incoming gas 13
WCI

S/N 60369
HF
Hz 55
GAS 4
MAN 1.4
Draft -.01
incoming gas 10 wci
201B

BACHARACH

BACHARACH, INC.
PCA 3
SN: UQ1003

Time: 09:26:51 AM
Date: 04/23/14

Fuel
NGAS

O_2	5.6 %
CO	0 ppm
Eff	82.1 %
CO_2	8.6 %
T-Stk	376 °F
T-Air	73.0 °F
EA	32.7 %
CO(3)	0 ppm
NO	21 ppm
NO_2	0 ppm
NOx	21 ppm
SO_2	**** ppm
NO(3)	24 ppm
NO_2(3)	0 ppm
NOx(3)	25 ppm
SO_2(0)	**** ppm

Comments: L/F
Hz 20
GAS .6
MAN .2
Draft -.03
incoming gas 13 wci

BACHARACH

BACHARACH, INC.
PCA 3
SN: UQ1003

Time: 09:30:55 AM
Date: 04/23/14

Fuel
NGAS

O_2	5.2 %
CO	0 ppm
Eff	85.9 %
CO_2	8.9 %
T-Stk	250 °F
T-Air	74.7 °F
EA	29.4 %
CO(3)	1 ppm
NO	23 ppm
NO_2	1 ppm
NOx	24 ppm
SO_2	**** ppm
NO(3)	27 ppm
NO_2(3)	1 ppm
NOx(3)	27 ppm
SO_2(0)	**** ppm

Comments: 201B

OXYGEN SENSOR MILLIVOLT COMPLIANCE LIMITS

SETPOINTS 3rd QUARTER 2014
GECO Air Fuel Ratio Controller

UNIT	MINIMUM MV SETPOINT FOR COMPLIANCE	OPTIMUM MV SETPOINT	MAXIMUM MV SETPOINT FOR COMPLIANCE	DATE OF MOST RECENT OPTIMUM SETTING
MU #2 Ingersoll Rand LVG-82	646	665	698	11/15/2011
MU #3 Ingersoll Rand LVG-82	679	712	745	6/5/2012
MU #4 Ingersoll Rand LVG-82	679	712	745	8/12/2014
MU #5 Ingersoll Rand LVG-82	698	731	764	8/13/2014
MU #6 Ingersoll Rand KVG-62	670	703	738	7/15/2010
MU #7 Ingersoll Rand KVG-62	689	721	754	7/18/2012
MU #8 Ingersoll Rand KVG-62	656	689	721	8/14/2014

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
13014	GOLETA STORAGE MAIN UNITS	5415372	PM	1/1/14	MAIN UNITS 2 THROUGH 9, SPARK PLUG CHANGE OUT - ANNUAL		ALL CHANGED AND ORDERED REPLACEMENTS	
13014	GOLETA STORAGE MAIN UNITS	5415582	PM	1/1/14	MAIN UNIT - ANNUAL AIR FILTER REPLACEMENT		ALL FILTERS REPLACED AND IN GOOD SHAPE	
13014	GOLETA STORAGE MAIN UNITS	5415358	PM	1/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5414936	PM	1/9/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS- MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5415659	PM	1/29/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		No run time.	
13014	GOLETA STORAGE MAIN UNITS	5415365	PM	2/4/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5414946	PM	2/6/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS- MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	MU 2 is OOS and powered down - No Thermocouple Reads
13014	GOLETA STORAGE MAIN UNITS	5415667	PM	2/28/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		no fail	Completed mu#6 and #8 No run time on other units
13014	GOLETA STORAGE MAIN UNITS	5441598	PM	3/3/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5440811	PM	3/13/14	ANNUAL - UG8 GOVERNOR INSPECTIONS		Completed, except	MU#2, #7, which are out -of -service at this time.
13014	GOLETA STORAGE MAIN UNITS	5441358	PM	3/13/14	GOLETA ALL MAIN UNITS - QRTLY ENGINE OIL ANALYSIS		no fail	MU-7 and MU-2 O.O.S.
13014	GOLETA STORAGE MAIN UNITS	5441367	PM	3/24/14	M. U. EXHAUST TEMP.		INSPECTION COMPLETE, NO	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					THERMOCOUPLE INSPECTIONS-MONTHLY		SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467501	PM	4/3/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467779	PM	4/3/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5142287	PM	4/8/14	VALVE PM - MAIN UNIT #2,3,4 AUX. & PIT - ANNUAL		FREQUENCY OVERLAP COMPLETED ON 5414759	
13014	GOLETA STORAGE MAIN UNITS	5229737	PM	4/8/14	GOLETA VALVE PM - MU9 jacketwater		FREQUENCY OVERLAP COMPLETED ON 5467126	
13014	GOLETA STORAGE MAIN UNITS	5229778	PM	4/8/14	GOLETA VALVE PM - (MU9) CREW 3		FREQUENCY OVERLAP COMPLETED ON 5467167	
13014	GOLETA STORAGE MAIN UNITS	5255592	PM	4/13/14	VALVE PM - MAIN UNITS #2,3,4 - LUBE OIL, PIPE TRENCH - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467957	PM	4/29/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5441766	PM	5/3/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5492970	PM	5/5/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5493156	PM	5/5/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467126	PM	5/26/14	GOLETA VALVE PM - MU9 Jacket		INSPECTION COMPLETE, NO	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					Water		SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5493368	PM	5/30/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		NO FAILURES	NO FAILURES
13014	GOLETA STORAGE MAIN UNITS	5515373	PM	6/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5515109	PM	6/4/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5515542	PM	6/26/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562501	PM	7/1/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562658	PM	7/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		no fail	MU-6 cyl #6 has been high, just broke 1300 degrees, no issues
13014	GOLETA STORAGE MAIN UNITS	5562147	PM	7/3/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562508	PM	8/4/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562157	PM	8/6/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	MU 2 is O.O.S. for engine rebuild.
13014	GOLETA STORAGE MAIN UNITS	5562666	PM	8/28/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5613128	PM	9/1/14	M.U.#2 - #8 OVERHEAD CHECKS -		INSPECTION COMPLETE, NO SUBSTANDARD	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					MONTHLY		CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612921	PM	9/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612569	PM	9/8/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5613136	PM	10/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612928	PM	10/7/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612579	PM	10/9/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635860	PM	11/10/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635696	PM	11/18/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635994	PM	11/26/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5659885	PM	12/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5660829	PM	12/1/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5660732	PM	12/8/14	M. U. EXHAUST TEMP. THERMOCOUPLE		INSPECTION COMPLETE, NO SUBSTANDARD	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTIONS-MONTHLY		CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
13065	GAS COMPRESSOR (MU#8)	5440881	PM	2/3/14	M.U.#8 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
13065	GAS COMPRESSOR (MU#8)	5415047	PM	3/5/14	M.U. #8 MAINTENANCE-QRTLY EMISSION TESTING		Passed.	
13065	GAS COMPRESSOR (MU#8)	5441708	PM	3/18/14	ANNUAL - M.U. #8 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5467688	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#8 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
13065	GAS COMPRESSOR (MU#8)	5586957	CM	6/17/14	Main Unit 8 - Follow-up items from June 4 analyst by John Lustig	1. Compressor cylinder #1 leaking suction valve. 2. Ignition system set for multi-strike. John reset system to single strike 3. Power cylinder #3 worst performing cylinder on the engine. Maybe a problem with the valve seat in the power head. Monitor closely. 4. Compressor #2 has an increase in	no fail	Changed Inboard suction valve on comp. 1

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
						baseline vibration at the compressor piston and rod travel reversals at both head end and crank end reversals. Continue to monitor.		
13065	GAS COMPRESSOR (MU#8)	5467583	PM	6/18/14	M.U. #8 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5605681	PM+	8/12/14	M.U. #8 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD# 6132)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection Completed on March 26, 2014 (see summary of results attaced to hard copy)
13065	GAS COMPRESSOR (MU#8)	5562267	PM	8/14/14	M.U. #8 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5658119	CM	9/15/14	M.U. #8 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION TESTING	PERFORM ANNUAL COMPLIANCE BASED INSPECTION WITH STATE CONTRACTOR	no fail	inspection complete no substandard conditions
13065	GAS COMPRESSOR (MU#8)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5612761	PM	9/29/14	M.U. #8 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5613743	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#8 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR (MU#8)	5613673	PM	10/22/14	M.U. #8 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13065	GAS COMPRESSOR	5681584	PM+	12/1/14	GOLETA MAIN		mu-2 o.o.s.	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU#8)				UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)			
13065U	M.U. #8 - UPPER END	5657457	CM	9/9/14	Main Unit 8: Investigate high exhaust temp power cylinder 6 and poor combustion power cyl 3		CHANGED CYL 3 & 6	CHANGED CYL 3 & 6 POWER HEADS. FOUND EXHAUST VALVE STICKING AND SUCTION VALVES BYPASSING
14220	INSTRUMENTATION	5590617	CM	6/26/14	MU #6 TotalFlow Replace TF Board		Replace Board	Replaced TF Board Calibrate TF for accuracy
14223	DIGI (MAIN #2)	5415456	PM	2/28/14	M.U.#2 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Issue W.O 5496683 to complete Annual Calibrations after rebuild is complete
14225	DIGI (MAIN #3)	5415135	PM	2/28/14	M.U.#3 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14226	DIGI (MAIN #4)	5415408	PM	2/28/14	M.U.#4 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14227	DIGI (MAIN #5)	5415145	PM	2/28/14	M.U.#5 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14228	DIGI (MAIN #6)	5440828	PM	2/28/14	M.U.#6 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14229	DIGI (MAIN #7)	5440838	PM	2/28/14	M.U.#7 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14230	MAIN #9 ALLEN BRADLEY PLC	5441485	PM	3/18/14	M.U.#9 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14230	MAIN #9 ALLEN BRADLEY PLC	5078185	CM	11/24/14	M.U.#9 INSTRUMENT			

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					CALIBRATON INSPECTIONS-ANNUAL			
14478	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#2 (PIT-2007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14478	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#2 (PIT-2007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14478	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#2 (PIT-2007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14478	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#2 (PIT-2007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14533	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#3 (PIT-3007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14533	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#3 (PIT-3007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14533	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#3 (PIT-3007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14533	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#3 (PIT-3007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
14539	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#4 (PIT-4007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14539	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#4 (PIT-4007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14539	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#4 (PIT-4007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14539	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#4 (PIT-4007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14540	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#5 (PIT-5007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14540	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#5 (PIT-5007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14540	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#5 (PIT-5007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14540	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#5 (PIT-5007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14541	COMPRESSOR DISCHARGE PRESSURE	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND		INSPECTION COMPLETE, NO SUBSTANDARD	

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	TRANSMITTER MU#6 (PIT-6007)				DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		CONDITIONS	
14541	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#6 (PIT-6007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14541	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#6 (PIT-6007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14541	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#6 (PIT-6007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14542	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#7 (PIT-7007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14542	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#7 (PIT-7007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14542	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#7 (PIT-7007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14542	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#7 (PIT-7007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS -		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					QUARTERLY			
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14545	DIGI (MAIN #8)	5440848	PM	2/28/14	M.U.#8 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14546	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#8 (PIT-8007)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14546	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#8 (PIT-8007)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14546	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#8 (PIT-8007)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14546	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#8 (PIT-8007)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14547	COMPRESSOR SUCTION PRESSURE TRANSMITTER	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	MU#8 (PIT-8006)				TRANSMITTER INSPECTIONS - QUARTERLY			
14547	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#8 (PIT-8006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14547	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#8 (PIT-8006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14547	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#8 (PIT-8006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14548	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#2 (PIT-2006)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14548	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#2 (PIT-2006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14548	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#2 (PIT-2006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14548	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#2 (PIT-2006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14550	COMPRESSOR	5403215	PM+	1/28/14	GOLETA MAIN		INSPECTION	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	SUCTION PRESSURE TRANSMITTER MU#3 (PIT 3006)				UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		COMPLETE, NO SUBSTANDARD CONDITIONS	
14550	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#3 (PIT 3006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14550	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#3 (PIT 3006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14550	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#3 (PIT 3006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14551	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#4 (PIT-4006)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14551	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#4 (PIT-4006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14551	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#4 (PIT-4006)	5568687	CM	5/29/14	MU#4 PIT-4006 Repair or Replace Transmitter		Replaced Transmitter	
14551	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#4 (PIT-4006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
14551	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#4 (PIT-4006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14552	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#5 (PIT-5006)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14552	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#5 (PIT-5006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14552	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#5 (PIT-5006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14552	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#5 (PIT-5006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14554	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#6 (PIT-6006)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14554	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#6 (PIT-6006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14554	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#6 (PIT-6006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					COMPLIANCE (QUARTERLY)			
14554	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#6 (PIT-6006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14555	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#7 (PIT-7006)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14555	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#7 (PIT-7006)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14555	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#7 (PIT-7006)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14555	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#7 (PIT-7006)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION		INSPECTION COMPLETE, NO	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	PRESSURE TRANSMITTER MU#9 (63TS)				TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792001	M.U. #6 - FUEL METER	5402902	PM+	1/23/14	SEMI-ANNUAL - M.U.#6 FUEL METER INSPECTION (OLD PM # GOLE544)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792001	M.U. #6 - FUEL METER	5554548	PM+	7/14/14	SEMI-ANNUAL - M.U.#6 FUEL METER INSPECTION (OLD PM # GOLE544)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792001	M.U. #6 - FUEL METER	5563185	PM	8/26/14	ANNUAL- FUEL METER PROVING-M.U. #6		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792008	M.U. #4 - FUEL METER	5402890	PM+	1/23/14	SEMI-ANNUAL - M.U.#4 FUEL METER INSPECTION ((OLD PM # GOLE542)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792008	M.U. #4 - FUEL METER	5554448	PM+	7/14/14	SEMI-ANNUAL - M.U.#4 FUEL METER INSPECTION ((OLD PM # GOLE542)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792008	M.U. #4 - FUEL METER	5563179	PM	8/26/14	ANNUAL- FUEL METER PROVING-M.U. #4		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792010	M.U. #7 - FUEL METER	5402908	PM+	1/23/14	SEMI-ANNUAL - M.U.#7 FUEL METER INSPECTION (OLD PM # GOLE545)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
2792010	M.U. #7 - FUEL METER	5555310	PM+	7/14/14	SEMI-ANNUAL - M.U.#7 FUEL METER		INSPECTION COMPLETE, NO SUBSTANDARD	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTION (OLD PM # GOLE545)		CONDITIONS	
2792010	M.U. #7 - FUEL METER	5563188	PM	8/27/14	ANNUAL- FUEL METER PROVING-M.U. #7		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
35643	OXYGEN SENSOR - EGO#1	5570594	CM	5/30/14	Main Unit 3: 2000 hour Oxygen Sensor Change out	change out o2 sensors EGO1 and EGO3 with new and log the engine hours	35722 hrs.=1681 hrs.	Run time. Replaced early, due to increased S/D Pending alarms.
4024936	M.U. #8 - FUEL METER	5402914	PM+	1/23/14	SEMI-ANNUAL - M.U.#8 FUEL METER INSPECTION (OLD PM # GOLE546)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4024936	M.U. #8 - FUEL METER	5554796	PM+	7/15/14	SEMI-ANNUAL - M.U.#8 FUEL METER INSPECTION (OLD PM # GOLE546)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4024936	M.U. #8 - FUEL METER	5563167	PM	8/27/14	ANNUAL- FUEL METER PROVING-M.U. #8		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4024974	M.U. #5 - FUEL METER	5402896	PM+	1/23/14	SEMI-ANNUAL - M.U.#5 FUEL METER INSPECTION (OLD PM # GOLE543)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4024974	M.U. #5 - FUEL METER	5554233	PM+	7/14/14	SEMI-ANNUAL - M.U.#5 FUEL METER INSPECTION (OLD PM # GOLE543)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4024974	M.U. #5 - FUEL METER	5563182	PM	8/26/14	ANNUAL- FUEL METER PROVING-M.U. #5		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4484350	M.U. #9 - FUEL METER	5402920	PM+	1/23/14	SEMI-ANNUAL - M.U.#9 FUEL METER INSPECTION (OLD PM # GOLE547)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4484350	M.U. #9 - FUEL	5554671	PM+	7/15/14	SEMI-ANNUAL -		INSPECTION	

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ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	METER				M.U.#9 FUEL METER INSPECTION (OLD PM # GOLE547)		COMPLETE, NO SUBSTANDARD CONDITIONS	
4484350	M.U. #9 - FUEL METER	5563170	PM	8/27/14	ANNUAL- FUEL METER PROVING-M.U. #9		Meter proving for this unit is not due this year	
45643	OXYGEN SENSOR - EGO#1	5616024	CM	7/17/14	Main Unit 4 2000 hour o2 sensor change out	Change out o2 sensors EGO 1 and EGO3 with new and log hours	Engine Hrs: 32795	
55643	OXYGEN SENSOR - EGO#1	5606900	CM	7/9/14	Main Unit #5: 2000 Hour o2 sensor change out	Change out o2 sensors EGO1 and EGO3 with new and log engine hours.	Changed EG01&3	
5825486	M.U. #2 - FUEL METER	5402878	PM+	1/27/14	SEMI-ANNUAL - M.U.#2 FUEL METER INSPECTION (OLD PM # GOLE540)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
5825486	M.U. #2 - FUEL METER	5554542	PM+	7/14/14	SEMI-ANNUAL - M.U.#2 FUEL METER INSPECTION (OLD PM # GOLE540)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
5825486	M.U. #2 - FUEL METER	5639733	CM	8/28/14	Main Unit #2 Replace Fuel Meter	Fuel Meter did not pass meter proving test see wo#5563173	Replaced Fuel Meter	Removed Meter #5825486 Installed Meter #10382439
5825486	M.U. #2 - FUEL METER	5563173	PM	9/2/14	ANNUAL- FUEL METER PROVING-M.U. #2		Found meter to be stuck, wont turn, corroded.	Meter would not flow when tested. Replaced meter Old meter # 5825486 New meter # 10382439. Refer to WO# 5639733.
65643	OXYGEN SENSOR - EGO#1	5606901	CM	7/9/14	Main Unit 6: 2000 hour o2 sensor change out	Change out o2 sensors EGO1 and EGO3 with new and log engine hours.	Changed EG01&3	
7549	GAS COMPRESSOR (MU #2)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7549	GAS COMPRESSOR (MU #2)	5440869	PM	2/21/14	M.U.#2 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7549	GAS COMPRESSOR (MU #2)	5415027	PM	3/5/14	M.U. #2 MAINTENANCE-QRTLY EMISSION TESTING		No test. Unit being	rebuilt. O.S.S.
7549	GAS COMPRESSOR (MU #2)	5441696	PM	3/14/14	ANNUAL - M.U. #2 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	M.U.#2 out of service for Rebuild: Issued W.O. 5496683 to Complete Safety ShutDown Inspection after rebuild is complete
7549	GAS COMPRESSOR (MU #2)	5467652	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#2 - SEMI-ANNUAL		Unit OOS for rebuild	
7549	GAS COMPRESSOR (MU #2)	5467537	PM	6/10/14	M.U. #2 MAINTENANCE-QRTLY EMISSION TESTING		Out-of-service, rebuild.	
7549	GAS COMPRESSOR (MU #2)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
7549	GAS COMPRESSOR (MU #2)	5562238	PM	8/14/14	M.U. #2 MAINTENANCE-QRTLY EMISSION TESTING		unit o.o.s.	
7549	GAS COMPRESSOR (MU #2)	5612689	PM	9/1/14	M.U. #2 - FOUNDATION INSPECTION - ANNUAL		no fail	Unit regrouted and torqued as part of rebuild
7549	GAS COMPRESSOR (MU #2)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7549	GAS COMPRESSOR (MU #2)	5613707	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#2 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Calibrated SP and Temp - OK
7549	GAS COMPRESSOR	5613623	PM	10/20/14	M.U. #2		unit is O.O.S.	

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MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU #2)				MAINTENANCE-QRTLY EMISSION TESTING			
7549	GAS COMPRESSOR (MU #2)	5496683	CM	11/14/14	M.U.#2 Instrument Calabration inspections	Perform Annual Instrument Calabrations on MU#2 and Perform Annual Safety Shutdown Inspection on MU#2 after rebuild is completed	Complete	
7549	GAS COMPRESSOR (MU #2)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7549U	M.U. #2 - UPPER END	5287175	CM	3/12/14	Mu#2 Suction valve Comp. #1, repaired.		Failed Copper gasket.	Gasket off-center on install. Heat finally broke gasket. No damages assessed. Back on-line.
7550	GAS COMPRESSOR (MU #3)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7550	GAS COMPRESSOR (MU #3)	5440871	PM	2/3/14	M.U.#3 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7550	GAS COMPRESSOR (MU #3)	5415030	PM	3/4/14	M.U. #3 MAINTENANCE-QRTLY EMISSION TESTING		Passed.	
7550	GAS COMPRESSOR (MU #3)	5441698	PM	3/14/14	ANNUAL - M.U. #3 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5467658	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#3 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5467540	PM	6/10/14	M.U. #3 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7550	GAS COMPRESSOR (MU #3)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
7550	GAS COMPRESSOR (MU #3)	5605904	PM+	8/12/14	M.U. #3 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD# 6122)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection completed March 24, 2014 (see summary of results attached to hard copy)
7550	GAS COMPRESSOR (MU #3)	5562241	PM	8/14/14	M.U. #3 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5634572	CM	8/18/14	Main Unit 3: Follow-up items from John Lustigs 8/12/2014 analysis	Power cylinders: Intake manifold leaks on power cylinders 2 and 5. Exhaust gasket leak on transistion manifold between cylinders 3 & 4. Cylinder 6 clogged kiene valve.	no fail	Replaced exhaust gasket, tightened intake flange on cyl 2, replaced o-ring on cyl 5, replaced kiene valve
7550	GAS COMPRESSOR (MU #3)	5658077	CM	9/18/14	M.U. #3 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION TESTING		no fail	inspection complete no substandard conditions
7550	GAS COMPRESSOR (MU #3)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5612697	PM	9/29/14	M.U. #3 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5613713	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#3 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR	5613626	PM	10/21/14	M.U. #3		INSPECTION	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU #3)				MAINTENANCE-QRTLY EMISSION TESTING		COMPLETE, NO SUBSTANDARD CONDITIONS	
7550	GAS COMPRESSOR (MU #3)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7551	GAS COMPRESSOR (MU #4)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7551	GAS COMPRESSOR (MU #4)	5440873	PM	2/3/14	M.U.#4 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7551	GAS COMPRESSOR (MU #4)	5415033	PM	3/4/14	M.U. #4 MAINTENANCE-QRTLY EMISSION TESTING		Passed.	
7551	GAS COMPRESSOR (MU #4)	5441700	PM	3/14/14	ANNUAL - M.U. #4 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5467664	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#4 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
7551	GAS COMPRESSOR (MU #4)	5467543	PM	6/18/14	M.U. #4 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5605677	PM+	8/12/14	M.U. #4 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD# 6124)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection Completed on March 24, 2014 (see summery of results attached to hard copy)
7551	GAS COMPRESSOR (MU #4)	5562244	PM	8/14/14	M.U. #4 MAINTENANCE-QRTLY		INSPECTION COMPLETE, NO SUBSTANDARD	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					EMISSION TESTING		CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5658081	CM	9/15/14	M.U. #4 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION TESTING		no fail	inspection complete no substandard conditions
7551	GAS COMPRESSOR (MU #4)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5612705	PM	9/29/14	M.U. #4 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5613719	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#4 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5613629	PM	10/21/14	M.U. #4 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7551	GAS COMPRESSOR (MU #4)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7551U	M.U. #4 - UPPER END	5586960	CM	6/17/14	Main Unit 4 - Follw-up from June 4 engine analyst by John Lustig	1. Power cylinder #4 has vacuum leak at intake manifold location. 2. Visible movement at vibram chock locations at both flywheel and oil pump end of the unit. Displacement measurements were taken and compared to previous analyst. Measurements did not indicate an increase in displacement levels.	FIXED VACUUM LEAK	FIXED VACUUM LEAK ON CYL #4. FLANGES ON INTAKE MANIFOLD ON BACLWARDS. AT SOME POINT HEAD WILL NEED TO BE TAKEN OFF TO FIX ORIENTATION OF FLANGES. USED TWO SEPARATE O-RINGS TO SEEL VACUUM LEAK

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
						Continue to monitor.		
7552	GAS COMPRESSOR (MU #5)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7552	GAS COMPRESSOR (MU #5)	5440875	PM	2/3/14	M.U.#5 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7552	GAS COMPRESSOR (MU #5)	5415036	PM	3/4/14	M.U. #5 MAINTENANCE - QUARTERLY EMISSION TESTING		Passed.	
7552	GAS COMPRESSOR (MU #5)	5441702	PM	3/14/14	ANNUAL - M.U. #5 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5467670	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#5 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
7552	GAS COMPRESSOR (MU #5)	5467546	PM	6/18/14	M.U. #5 MAINTENANCE - QUARTERLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5605846	PM+	8/12/14	M.U. #5 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD# 6126)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection Completed March 25, 2014 (see summary of results attached to hard copy)
7552	GAS COMPRESSOR (MU #5)	5562247	PM	8/14/14	M.U. #5 MAINTENANCE - QUARTERLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5658085	CM	9/15/14	M.U. #5 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION		no fail	inspection complete no substandard conditions

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					TESTING			
7552	GAS COMPRESSOR (MU #5)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5612713	PM	9/29/14	M.U. #5 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5613725	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#5 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5613632	PM	10/22/14	M.U. #5 MAINTENANCE - QUARTERLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7552	GAS COMPRESSOR (MU #5)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7553	GAS COMPRESSOR (MU #6)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7553	GAS COMPRESSOR (MU #6)	5440877	PM	2/3/14	M.U.#6 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7553	GAS COMPRESSOR (MU #6)	5415041	PM	3/5/14	M.U. #6 MAINTENANCE-QRTLY EMISSION TESTING		Passed.	
7553	GAS COMPRESSOR (MU #6)	5441704	PM	3/18/14	ANNUAL - M.U. #6 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5467676	PM	4/17/14	TOTALFLOW CALIBRATION - M.U.#6 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
								MU-8 HRS 44883
7553	GAS COMPRESSOR (MU #6)	5467577	PM	6/18/14	M.U. #6 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5605820	PM+	8/12/14	M.U. #6 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD# 6128)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection Completed on March 26, 2014 (see summary of results attaced to hard copy)
7553	GAS COMPRESSOR (MU #6)	5562261	PM	8/14/14	M.U. #6 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5634536	CM	8/18/14	Main Unit #6 - Follow up task from 8/15/14 Engine analysis by John Lustig	Power Cylinders: Power cylinder 3 has excessively high amplitude vibration at intake valve closure.Note: Head has been removed due to sticky intake valve. Power cylinder 6: monitor pressure raise during exhaust stroke at 290 degrees after cylinder TDC. Compressors: Compressor #1 inspect crosshead pin and bushing and master rod bearing for clearance and wear.	check bearing	changed cyl #3, removed comp 1 xhead pin had re chromed, pulled comp 1 master rod insp, re installed master rod changed bearings, added head end unloader gasket
7553	GAS COMPRESSOR (MU #6)	5658089	CM	9/15/14	M.U. #6 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION TESTING		no fail	inspection complete no substandard conditions

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7553	GAS COMPRESSOR (MU #6)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5612745	PM	9/29/14	M.U. #6 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5613731	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#6 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5613667	PM	10/21/14	M.U. #6 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7553	GAS COMPRESSOR (MU #6)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7553A	M.U. #6 - AUXILIARY SYSTEM	5634080	CM	8/19/14	Main Unit #6: Investigate gear noise at governor gear drive area		read long description	Replaced bearings, shaft and added washers to idler gear assy. Slight position adj on bushings for mag and trabon gear drive to keep gears from rubbing on align plate
7554	GAS COMPRESSOR (MU #7)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7554	GAS COMPRESSOR (MU #7)	5440879	PM	2/3/14	M.U.#7 - OVERHEAD FILTER REPLACEMENT - ANNUAL		FILTER CHANGED, ALL CHECKS GOOD	
7554	GAS COMPRESSOR (MU #7)	5415044	PM	3/5/14	M.U. #7 MAINTENANCE-QRTLY EMISSION TESTING		O.O.S. due to Comp. #2	work. Unit not tested.
7554	GAS COMPRESSOR (MU #7)	5441706	PM	3/26/14	ANNUAL - M.U. #7 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR	5467682	PM	4/16/14	TOTALFLOW		INSPECTION	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU #7)				CALIBRATION - M.U.#7 - SEMI-ANNUAL		COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5542159	PM+	6/16/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-3 HRS 35968 MU-4 HRS 32402 MU-5 HRS 16464 MU-6 HRS 54047 MU-7 HRS 45260 MU-8 HRS 44883
7554	GAS COMPRESSOR (MU #7)	5586962	CM	6/17/14	Main Unit 7 - Follow-up from June 4 engine analyst by John Lustig	1. Power cylinder #2 is performing the lowest on the engine. Continue to monitor performance. 2. Compressor #2 investigate head end suction valve for leakage. Investigate frame head gasket for leakage.	no fail	Changed Suction valves on Comp #2 Fixed trabon fitting leakes going into comp #2 packer
7554	GAS COMPRESSOR (MU #7)	5467580	PM	6/18/14	M.U. #7 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5606522	PM+	8/12/14	M.U. #7 MAINTENANCE-ANNUAL FORMALDEHYDE EMISSION TESTING (OLD #6130)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Inspection Completed on March 26, 2014 (see summary of results attaced to hard copy)
7554	GAS COMPRESSOR (MU #7)	5562264	PM	8/14/14	M.U. #7 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5658093	CM	9/15/14	M.U. #7 MAINTENANCE-ANNUAL 3RD PARTY APCD EMISSION TESTING		no fail	inspection complate no substandard conditions
7554	GAS COMPRESSOR (MU #7)	5606431	PM+	9/18/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7554	GAS COMPRESSOR (MU #7)	5612753	PM	9/29/14	M.U. #7 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5613737	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#7 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5411979	CM	10/20/14	TOTALFLOW CALIBRATION - M.U.#7 - SEMI-ANNUAL			
7554	GAS COMPRESSOR (MU #7)	5613670	PM	10/22/14	M.U. #7 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7554	GAS COMPRESSOR (MU #7)	5681584	PM+	12/1/14	GOLETA MAIN UNITS 2-8 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		mu-2 o.o.s.	
7554U	M.U. #7 - UPPER END	5258196	CM	3/11/14	Main Unit # 7 - Power cylinder # 6	Power cylinder # 6 has a compression leak at the vertical kiene port nipple where it threads into the elbow.	Dan Perez changed out the Kiene Cock on 4/30/2013	It was not closed out in Maximo
7555	GAS COMPRESSOR (MU #9)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7555	GAS COMPRESSOR (MU #9)	5396608	PM	1/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416171	PM	1/7/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416180	PM	1/14/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416189	PM	1/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7555	GAS COMPRESSOR (MU #9)	5416198	PM	1/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time. Schedule	to do an Inspection no time alotted. Complete work order now.
7555	GAS COMPRESSOR (MU #9)	5440935	PM	3/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5440953	PM	3/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5440944	PM	3/5/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5207851	PM	3/11/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Work order was completed by Mike Bagley 3/27/13	It was not completed in Maximo
7555	GAS COMPRESSOR (MU #9)	5466625	PM	3/11/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5440962	PM	3/12/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Emission testing, no	Kistler balancing.
7555	GAS COMPRESSOR (MU #9)	5466616	PM	3/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No adjustments needed
7555	GAS COMPRESSOR (MU #9)	5466634	PM	3/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5441722	PM	3/19/14	ANNUAL - M.U. #9 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5466643	PM	3/25/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	3-27-14 start lo-inventory S/I, start.
7555	GAS COMPRESSOR (MU #9)	5466652	PM	4/1/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5466661	PM	4/8/14	WEEKLY - M.U.#9 ENG. BALANCE		No checks.	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTION			
7555	GAS COMPRESSOR (MU #9)	5492832	PM	4/15/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Trouble shooting, use	of Kistler. Completed.
7555	GAS COMPRESSOR (MU #9)	5467694	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#9 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5492841	PM	4/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No usage.	
7555	GAS COMPRESSOR (MU #9)	5492850	PM	5/5/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5441463	PM	5/6/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	M.U. #9 Passed Emission Test on 3/3/2014
7555	GAS COMPRESSOR (MU #9)	5492859	PM	5/9/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Kistler training.	
7555	GAS COMPRESSOR (MU #9)	5514649	PM	5/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5514658	PM	5/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Inspection of Kistler unit	No adjustments.Unit @ 938H.P.
7555	GAS COMPRESSOR (MU #9)	5514667	PM	6/2/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Not enough horsepower	
7555	GAS COMPRESSOR (MU #9)	5514676	PM	6/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No kistler operation,	This week.
7555	GAS COMPRESSOR (MU #9)	5537952	PM	6/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Made 2 rounds, Monday,	and Tuesday. No adjustments, just training.
7555	GAS COMPRESSOR (MU #9)	5542168	PM+	6/16/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-9 HRS 63530

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7555	GAS COMPRESSOR (MU #9)	5537961	PM	6/17/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		1 pass at 1100 Hp.	No adjustments.
7555	GAS COMPRESSOR (MU #9)	5515216	PM	6/18/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5537970	PM	6/25/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	Made small adjustments, see log for info
7555	GAS COMPRESSOR (MU #9)	5537979	PM	7/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		unit wasnt needed	
7555	GAS COMPRESSOR (MU #9)	5562698	PM	7/8/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No adjustments needed	
7555	GAS COMPRESSOR (MU #9)	5562707	PM	7/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time	
7555	GAS COMPRESSOR (MU #9)	5562716	PM	7/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5562725	PM	7/31/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5562734	PM	8/7/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612252	PM	8/14/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612742	PM	8/14/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5612261	PM	8/19/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no adjustments
7555	GAS COMPRESSOR	5612270	PM	8/27/14	WEEKLY -		no fail	Adjusted Cyl #1&9

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU #9)				M.U.#9 ENG. BALANCE INSPECTION			down to bring up Cyl #2. Changed spark plug on Cyl #2
7555	GAS COMPRESSOR (MU #9)	5612279	PM	9/4/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612297	PM	9/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5658607	CM	9/18/14	I nstall two "machine starting automatically" signs for MU#9	See WO# 5515536 FOR MORE DETAILS.	NONE	deficiencies corrected
7555	GAS COMPRESSOR (MU #9)	5612288	PM	9/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no adjustments made
7555	GAS COMPRESSOR (MU #9)	5606440	PM+	9/18/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5612306	PM	9/29/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no balance this week
7555	GAS COMPRESSOR (MU #9)	5612315	PM	9/30/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5613755	PM	10/1/14	M.U. #9 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5613749	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#9 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5635293	PM	10/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5635302	PM	10/20/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR	5659866	PM	10/20/14	M.U. #9		INSPECTION	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	(MU #9)				MAINTENANCE-QRTLY EMISSION TESTING		COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5635311	PM	10/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5635320	PM	10/31/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5659792	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659801	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659810	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659819	PM	11/26/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5681593	PM+	12/1/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5659828	PM	12/2/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659837	PM	12/9/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659846	PM	12/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5661293	PM	12/23/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5661302	PM	12/30/14	WEEKLY - M.U.#9 ENG.		insufficeint run time	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					BALANCE INSPECTION			
7555U	M.U. #9 - UPPER END	5497052	CM	3/4/14	REPLACE FUEL INJECTOR MU#9 CYL#3		REPLACE FUEL INJECTOR	ON CYL#3
75643	OXYGEN SENSOR - EGO#1	5558080	CM	5/13/14	Main Unit 7 - 2000 Hour Oxygen Sensor Change Out	Change out oxygen sensors EGO 1 and EGO 3 with new and log engine hours.	Total1894 hours,	44618-42724=1894. Repaired exhaust pip mount brackets.
75643	OXYGEN SENSOR - EGO#1	5634534	CM	8/13/14	Main Unit #7 - 2000 hour O2 sensor change out	Change out O2 sensors EGO1 and EGO 3 with new and log the engine hours.	O2 Sensors Changed Out	O2 sensors changed out due to run time. Hours on unit - 46262
7580	DIESEL ENGINE (AUX #12A)	5632508	PM+	9/11/14	UNIT 12A - ANNUAL ENGINE INSPECTION (OLD# GOL-8340)		no fail	changed oil and filter, changed cooling water filter, changed fuel and sediment filter, inspected all hoses, wires, and fitting
7581	FIRE WATER PUMP (AUX #12A)	5583067	PM+	11/25/14	Fire Pump 12A Flow Test - Annual		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7582	DIESEL ENGINE (AUX #13A)	5632518	PM+	9/15/14	UNIT 13A - ANNUAL ENGINE INSPECTION (OLD# GOL-8341)		no fail	changed oil &filter, changed coolant filter, changed fuel and sediment filter HRS:0303.2
7583	FIRE WATER PUMP (AUX #13A)	5583074	PM+	11/25/14	Fire Pump 13A Flow Test - Annual		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7651	MU #9 JACKET WATER PUMP	5415562	PM	3/11/14	JACKET WATER PUMP INSPECTION - M.U.#9 - ANNUAL		In good service.	
7800656	M.U. #3 - FUEL METER	5402884	PM+	1/23/14	SEMI-ANNUAL - M.U.#3 FUEL METER INSPECTION (OLD PM # GOLE541)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7800656	M.U. #3 - FUEL METER	5554227	PM+	7/14/14	SEMI-ANNUAL - M.U.#3 FUEL METER		INSPECTION COMPLETE, NO SUBSTANDARD	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTION (OLD PM # GOLE541)		CONDITIONS	
7800656	M.U. #3 - FUEL METER	5563176	PM	8/27/14	ANNUAL- FUEL METER PROVING-M.U. #3		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
85643	OXYGEN SENSOR - EGO#1	5586984	CM	6/19/14	Main Unit #8 - 2000 Hour O2 Sensor Changeout	Change out O2 sensors EGO 1&3 and replace with new and log the engine hours.	no fail	1907 hrs on unit changed ego1 and ego3 sensors
85686	THERMOCOUPLE - TEMP OUT	5585677	CM	6/13/14	M.U.#8 Replace TC-8028 Exh.Cat Out		Replaced TC 8028	
GT-FW-FS-011	AUXILIARY 13A - RELIEF VALVE	5513283	CPM	5/8/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA UTILITY SYSTEMS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	No Failure - Test & Inspection Only
GT-FW-FS-015	AUXILIARY 12A - RELIEF VALVE	5513283	CPM	5/8/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA UTILITY SYSTEMS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	No Failure - Test & Inspection Only
IG-NG-169	COMPLIANCE R.V., MAIN UNIT #6 ,COMP. DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-170	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-171	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-	COMPRESSOR	5615595	CPM	11/12/14	COMPLIANCE		INSPECTION	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
NG-181	DISCHARGE				RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-194	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-205	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-206	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-207	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-208	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-209	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-210	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-2, APCD-2FM, APCD-3, APCD-3FM, APCD-4, APCD-4FM, APCD-5, APCD-5FM, APCD-6, APCD-6FM, APCD-7, APCD-7FM, APCD-8, APCD-8FM, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					ANNUAL			

Table 2-1
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit #3
September 15, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.03	0.00	0.01	
Carbon Dioxide, %	12.13	12.15	12.12	12.13	
Flow Rate, dscfm	1,102	1,119	1,101	1,107	
Oxides of Nitrogen,					
ppm	21.2	17.9	22.7	20.6	
ppm @ 15% O_2	5.99	5.07	6.40	5.82	50
lb/hr	0.170	0.146	0.182	0.166	2.37
g/bHp-hr	0.128	0.110	0.137	0.125	
lbs/MMscf	22.2	18.8	23.8	21.6	
Carbon Monoxide,					
ppm	678	602	810	697	
ppm @ 15% O_2	192	170	229	197	1700
lb/hr	3.31	2.98	3.95	3.41	27.92
g/bHp-hr	2.50	2.25	2.98	2.58	
lbs/MMscf	433	384	517	445	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.0010	< 0.0010	< 0.0010	< 0.0010	2.34
g/bHp-hr	< 0.00074	< 0.0007	< 0.00074	< 0.00074	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	93	93	92	93	
Fuel Flow, scfh	7,649	7,755	7,640	7,682	
Heat Rate, MMbtu/hr	7.79	7.89	7.78	7.82	
Horsepower, bHp	602	602	601	602	
RPM	300	301	300	300	
Catalyst Temp. In, °F	919	921	921	920	
Catalyst Temp. Out, °F	968	970	970	969	
Target, V	0.712	0.712	0.712	0.712	
Lambda Sensor, V	0.705	0.711	0.704	0.707	
Timing, °BTDC	18.6	18.6	18.6	18.6	

Table 2-2
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit #4
September 15, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.02	0.00	0.01	
Carbon Dioxide, %	12.10	11.99	12.10	12.06	
Flow Rate, dscfm	1,121	1,115	1,116	1,118	
Oxides of Nitrogen,					
ppm	28.0	25.7	24.3	26.0	
ppm @ 15% O_2	7.89	7.25	6.85	7.33	50
lb/hr	0.228	0.208	0.197	0.211	2.37
g/bHp-hr	0.172	0.157	0.149	0.159	
lbs/MMscf	29.3	26.9	25.4	27.2	
Carbon Monoxide,					
ppm	1,417	1,457	1,890	1,588	
ppm @ 15% O_2	400	412	533	448	1700
lb/hr	7.03	7.19	9.34	7.85	27.92
g/bHp-hr	5.31	5.43	7.06	5.94	
lbs/MMscf	904	930	1,205	1,013	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.0010	< 0.0010	< 0.0010	< 0.0010	2.34
g/bHp-hr	< 0.0007	< 0.0007	< 0.0007	< 0.0007	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	92	92	92	92	
Fuel Flow, scfh	7,781	7,731	7,745	7,752	
Heat Rate, MMbtu/hr	7.92	7.87	7.88	7.89	
Horsepower, bHp	601	601	600	601	
RPM	298	298	298	298	
Catalyst Temp. In, °F	915	915	914	915	
Catalyst Temp. Out, °F	959	960	960	960	
Target, V	0.712	0.712	0.712	0.712	
Lambda Sensor, V	0.713	0.713	0.711	0.712	
Timing, °BTDC	18.9	18.9	18.9	18.9	

Table 2-3
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit 5
September 16, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Carbon Dioxide, %	11.86	11.95	11.85	11.89	
Flow Rate, dscfm	1,178	1,157	1,150	1,162	
Oxides of Nitrogen,					
ppm	39.0	37.5	37.1	37.9	
ppm @ 15% O_2	11.0	10.6	10.5	10.7	50
lb/hr	0.334	0.315	0.310	0.320	2.37
g/bHp-hr	0.254	0.239	0.235	0.243	
lbs/MMscf	40.9	39.2	38.9	39.7	
Carbon Monoxide,					
ppm	2173	2550	2672	2465	
ppm @ 15% O_2	613	720	754	696	1700
lb/hr	11.3	13.1	13.6	12.7	27.92
g/bHp-hr	8.61	9.9	10.3	9.60	
lbs/MMscf	1385	1626	1703	1571	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.0010	< 0.0010	< 0.0010	< 0.0010	2.34
g/bHp-hr	< 0.00079	< 0.00078	< 0.00077	< 0.00078	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	92	92	92	92	
Fuel Flow, scfh	8,179	8,035	7,988	8,067	
Heat Rate, MMbtu/hr	8.32	8.17	8.13	8.21	
Horsepower, bHp	597	600	600	599	
RPM	301	301	301	301	
Catalyst Temp. In, °F	904	909	911	908	
Catalyst Temp. Out, °F	953	957	960	957	
Target V	0.731	0.731	0.731	0.731	
Lambda Sensor V	0.713	0.720	0.721	0.718	
Timing, °BTDC	19.5	19.5	19.5	19.5	

Table 2-4
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit 6
September 16, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Carbon Dioxide, %	11.80	12.31	12.32	12.14	
Flow Rate, dscfm	1,118	1,116	1,115	1,117	
Oxides of Nitrogen,					
ppm	10.4	9.45	8.45	9.45	
ppm @ 15% O_2	2.95	2.67	2.38	2.67	50
lb/hr	0.085	0.077	0.069	0.077	2.37
g/bHp-hr	0.064	0.058	0.052	0.058	
lbs/MMscf	10.9	9.9	8.8	9.9	
Carbon Monoxide,					
ppm	944	798	864	869	
ppm @ 15% O_2	266	225	244	245	1700
lb/hr	4.67	3.94	4.27	4.29	27.92
g/bHp-hr	3.53	2.99	3.24	3.25	
lbs/MMscf	601	509	551	554	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.0010	< 0.0010	< 0.0010	< 0.0010	2.34
g/bHp-hr	< 0.00075	< 0.00075	< 0.00075	< 0.00075	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	92	92	92	92	
Fuel Flow, scfh	7,767	7,750	7,747	7,755	
Heat Rate, MMbtu/hr	7.90	7.88	7.88	7.89	
Horsepower, bHp	600	599	598	599	
RPM	330	331	330	330	
Catalyst Temp. In, °F	1,040	1,039	1,038	1,039	
Catalyst Temp. Out, °F	1,093	1,093	1,088	1,091	
Target V	0.703	0.703	0.703	0.703	
Lambda Sensor V	0.703	0.710	0.721	0.711	
Timing, °BTDC	18.6	18.6	18.6	18.6	

Table 2-5
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit 7
September 17, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Carbon Dioxide, %	12.12	11.87	12.16	12.05	
Flow Rate, dscfm	1,122	1,111	1,101	1,111	
Oxides of Nitrogen,					
ppm	17.7	16.7	16.8	17.1	
ppm @ 15% O_2	5.00	4.71	4.74	4.82	50
lb/hr	0.144	0.135	0.134	0.138	2.37
g/bHp-hr	0.109	0.102	0.101	0.104	
lbs/MMscf	18.5	17.5	17.5	17.8	
Carbon Monoxide,					
ppm	2618	2595	2145	2452	
ppm @ 15% O_2	739.0	732.4	605.5	692.3	1700
lb/hr	13.00	12.76	10.45	12.07	27.92
g/bHp-hr	9.80	9.61	7.88	9.10	
lbs/MMscf	1666.25	1651.58	1365.36	1561.06	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.0010	< 0.0010	< 0.0010	< 0.0010	2.34
g/bHp-hr	< 0.00075	< 0.00074	< 0.00074	< 0.00074	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	93	93	93	93	
Fuel Flow, scfh	7,799	7,727	7,656	7,727	
Heat Rate, MMbtu/hr	7.92	7.85	7.78	7.85	
Horsepower, bHp	602	603	602	602	
RPM	331	331	331	331	
Catalyst Temp. In, °F	1,025	1,027	1,030	1,027	
Catalyst Temp. Out, °F	1,060	1,061	1,063	1,061	
Target mV	0.72	0.72	0.72	0.72	
Lambda Sensor, V	0.718	0.718	0.716	0.717	
Timing, °BTDC	19.5	19.5	19.5	19.5	

Table 2-6
Summary of Results
Southern California Gas Company
Goleta Storage Facility
Main Unit 8
September 17, 2014

Run	1	2	3	Average	Permit Limit
Oxygen, %	0.00	0.00	0.00	0.00	
Carbon Dioxide, %	12.34	12.02	12.28	12.21	
Flow Rate, dscfm	1,097	1,081	1,075	1,084	
Oxides of Nitrogen,					
ppm	12.8	15.7	14.1	14.2	
ppm @ 15% O_2	3.62	4.42	3.99	4.01	50
lb/hr	0.102	0.123	0.110	0.112	2.37
g/bHp-hr	0.077	0.092	0.083	0.084	
lbs/MMscf	13.4	16.4	14.8	14.9	
Carbon Monoxide,					
ppm	962	1164	1193	1107	
ppm @ 15% O_2	272	329	337	312	1700
lb/hr	4.67	5.57	5.68	5.31	27.92
g/bHp-hr	3.51	4.19	4.27	3.99	
lbs/MMscf	613	741	760	704	
Total Non-Methane/Non-Ethane Hydrocarbons,					
ppm	< 0.35	< 0.35	< 0.35	< 0.35	
ppm @ 15% O_2	< 0.10	< 0.10	< 0.10	< 0.10	250
lb/hr	< 0.00097	< 0.00096	< 0.00095	< 0.00096	2.34
g/bHp-hr	< 0.00073	< 0.00072	< 0.00072	< 0.00072	
lbs/MMscf	< 0.13	< 0.13	< 0.13	< 0.13	
Operating Parameters,					
Load, %	93	93	93	93	
Fuel Flow, scfh	7,628	7,515	7,473	7,538	
Heat Rate, MMbtu/hr	7.75	7.63	7.59	7.66	
Horsepower, bHp	604	604	603	604	
RPM	330	329	329	329	
Catalyst Temp. In, °F	1,025	1,028	1,027	1,027	
Catalyst Temp. Out, °F	1,077	1,076	1,079	1,077	
Target V	0.689	0.689	0.689	0.689	
Lambda Sensor V	0.690	0.694	0.696	0.693	
Timing, °BTDC	19.8	19.8	19.8	19.8	

Annual Operating Hours and Fuel Usage Report

Unit(s): / District ID:	H-201A 113985	H-201B 113987	Compressor 4A 1221	Compressor 5A 1222	Compressor 4A plus 5A -	MU9 1206	MU9 1206	Fire Pump 12A 8666	Fire Pump 13A 8668	Office Generator 8665)
Month	Operating Fuel (MSCF)	Operating Fuel (MSCF)	Operating Hours	Operating Hours	Operating Fuel (MSCF)	Operating Hours	Operating Fuel (MSCF)	Operating Hours	Operating Hours	Operating Hours
Jan	99	102	1	3.0	0.9	0	0	1.1	0.8	4.2
Feb	92	70	2	0.0	0.5	27	211	0.6	0.2	0.1
Mar	126	15	5	0.0	0.9	215	1884	0.5	0.5	0.2
Apr	100	112	15	0.0	4.7	218	1765	0.3	0.3	0.2
May	92	60	118	8.8	38.6	419	3325	0.4	0.4	7.9
Jun	55	55	54	0.0	12.7	385	3436	0.3	0.4	39.3
Jul	15	17	44	0.0	9.9	421	3703	0.5	0.5	0.0
Aug	56	54	4	0.0	1.4	512	4555	0.5	0.4	0.1
Sep	16	13	29	1.3	6.6	280	2755	0.5	0.5	0.2
Oct	0	0	17	0.0	5.2	290	2544	0.6	0.6	0.1
Nov	0	0	29	0.0	5.6	144	1226	0.6	0.7	13.9
Dec	18	20	11	0.0	2.4	187	1655	0.2	0.2	0.2
Total	669	519	328	13.0	89.4	3097	27057	6.1	5.5	66.4
Total Fuel (MSCF)	28,334									
Total Hours	3,516									

The Gas Company
A Sempra Energy company

Interoffice Memo

TO: Dennis Lowrey
FROM: Vincent Arias
DATE: February 19, 2014
SUBJECT: Hydrocarbon Analysis for Goleta Storage Field – February 2014

EAC PROJECT#: TS2014-C013
EAC ACCOUNT#: 824.502 GP

THIS REPORT IS YOUR RECORD. THE EAC WILL DISCARD THIS REPORT ON 02/19/2019.

OBJECTIVE

Assist Goleta Underground Storage personnel by analyzing hydrocarbon composition and High Heating Values (HHV), to ensure compliance required by the Santa Barbara County Air Pollution Control District.

RESULTS

Please see the attached list of the hydrocarbons present in the sample to determine the Reactive Organic Carbon (ROC) content. The HHV are listed below:

LOCATION	HHV (BTU/real cubic foot)
Reservoir Quality Gas Miller 8	1055.2
Pipeline Quality Gas L-247	1053.9
Goleta Plant Fuel OM 3464	1053.7
Micro Turbine Fuel Gas	1052.4
Dehy Flare Inlet	1183.0
Tank Farm Flare	1123.4

SAMPLE COLLECTION & ANALYSIS

On 02/07/14, Engineering Analysis Center (EAC) personnel received six gas samples collected by Goleta Underground Storage personnel. These gas samples were collected on 02/05/14, from Reservoir Quality Gas Miller 8, Pipeline Quality Gas L-247, Goleta Plant Fuel OM 3464, Micro Turbine Fuel Gas, Dehy Flare Inlet, and Tank Farm Flare in Tedlar Bags and sent to the EAC by inter office mail.

On 02/07/14, the EAC analyzed the gas samples according to ASTM Method D1945-03, (Method for Analysis of Natural Gas by Gas Chromatography), and calculated the High BTU values using ASTM Method D3588-98 (Test Method for Heating Value of Gases in Natural Gas Range by Stoichiometric Combustion). The EAC was able to complete the test in accordance to the above stated ASTM methods and calculated the High BTU values for Reservoir Quality Gas Miller 8, Pipeline Quality Gas L-247, Goleta Plant Fuel OM 3464, Micro Turbine Fuel Gas, Dehy Flare Inlet, and Tank Farm Flare.

VA/Goleta HHV 02-05-14/Job:2379

cc: Shahid Razzak (w/o attachments)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD 1
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2563	1012.3	911.5	0.5539	14.1585	77.1257	893.5	804.5	0.4889
ETHANE	5.0283	1773.8	1622.8	1.0382	1.5120	8.2361	89.2	81.6	0.0522
PROPANE	0.9875	2521.9	2320.4	1.5225	0.4354	2.3720	24.9	22.9	0.0150
iso-BUTANE	0.2988	3259.4	3006.9	2.0068	0.1737	0.9460	9.7	9.0	0.0060
n-BUTANE	0.2956	3269.8	3017.4	2.0068	0.1718	0.9359	9.7	8.9	0.0059
neo-PENTANE	0.0000	4010.2	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0991	4010.2	3707.6	2.4911	0.0715	0.3895	4.0	3.7	0.0025
n-PENTANE	0.0999	4018.0	3715.6	2.4911	0.0721	0.3926	4.0	3.7	0.0025
C6 plus	0.0685	5194.5	4812.8	3.2521	0.0645	0.3515	3.6	3.3	0.0022
CARBON DIOXIDE	2.0075	0.0	0	0.9672	0.8835	4.8126	0.0	0.0	0.0194
OXYGEN	0.3506	0.0	0	1.5195	0.1122	0.6111	0.0	0.0	0.0053
NITROGEN	2.5079	0.0	0	1.1048	0.7025	3.8270	0.0	0.0	0.0277
Totals ----->	100.000				18.4	100.0	1038.5	937.6	0.6277

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00634
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99769

Total Mol Wt. ROC C3 to C6+ = 0.5536 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1040.9 BTU/real cubic foot
LHV	939.7 BTU/real cubic foot
Specific Gravity	0.6291

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD 2
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2564	1012.3	911.5	0.5539	14.1585	77.1212	893.5	804.5	0.4889
ETHANE	5.0300	1773.8	1622.8	1.0382	1.5125	8.2384	89.2	81.6	0.0522
PROPANE	0.9900	2521.9	2320.4	1.5225	0.4365	2.3779	25.0	23.0	0.0151
iso-BUTANE	0.2990	3259.4	3006.9	2.0068	0.1738	0.9466	9.7	9.0	0.0060
n-BUTANE	0.2960	3269.8	3017.4	2.0068	0.1720	0.9371	9.7	8.9	0.0059
neo-PENTANE	0.0000	4010.2	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0990	4010.2	3707.6	2.4911	0.0714	0.3891	4.0	3.7	0.0025
n-PENTANE	0.1000	4018.0	3715.6	2.4911	0.0721	0.3930	4.0	3.7	0.0025
C6 plus	0.0686	5194.5	4812.8	3.2521	0.0646	0.3520	3.6	3.3	0.0022
CARBON DIOXIDE	2.0100	0.0	0	0.9672	0.8846	4.8183	0.0	0.0	0.0194
OXYGEN	0.3510	0.0	0	1.5195	0.1123	0.6118	0.0	0.0	0.0053
NITROGEN	2.5000	0.0	0	1.1048	0.7003	3.8147	0.0	0.0	0.0276
Totals ----->	100.000				18.4	100.0	1038.6	937.7	0.6277

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00634
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99769

Total Mol Wt. ROC C3 to C6+ = 0.5540 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1041.0 BTU/real cubic foot
LHV	939.8 BTU/real cubic foot
Specific Gravity	0.6291

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Reservoir Quality Gas Miller 8
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.0310	1012.3	911.5	0.5539	14.8943	85.2816	941.8	848.0	0.5153
ETHANE	3.5672	1773.8	1622.8	1.0382	1.0727	6.1418	63.3	57.9	0.0370
PROPANE	1.216	2521.9	2320.4	1.5225	0.5361	3.0698	30.7	28.2	0.0185
iso-BUTANE	0.1305	3259.4	3006.9	2.0068	0.0758	0.4343	4.3	3.9	0.0026
n-BUTANE	0.2284	3269.8	3017.4	2.0068	0.1327	0.7601	7.5	6.9	0.0046
iso-PENTANE	0.0421	4010.2	3707.6	2.4911	0.0304	0.1739	1.7	1.6	0.0010
n-PENTANE	0.0322	4018.0	3715.6	2.4911	0.0232	0.1330	1.3	1.2	0.0008
C6 plus	0.0445	5194.5	4812.8	3.2521	0.0419	0.2400	2.3	2.1	0.0014
CARBON DIOXIDE	1.1007	0.0	0	1.5195	0.4843	2.7731	0.0	0.0	0.0167
OXYGEN	0.0807	0.0	0	1.1048	0.0258	0.1479	0.0	0.0	0.0009
NITROGEN	0.5268	0.0	0	0.9672	0.1475	0.8446	0.0	0.0	0.0051
Totals ----->	100.000				17.5	100.0	1052.7	949.8	0.6041

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00610
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99771

Total Mol Wt. ROC C3 to C6+ = 0.8402 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.81%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0022 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1055.2 BTU/real cubic foot
LHV	952.0 BTU/real cubic foot
Specific Gravity	0.6054

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Pipeline Quality Gas L-247
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.2489	1012.3	911.5	0.5539	14.9291	85.7098	944.0	850.0	0.5165
ETHANE	3.4541	1773.8	1622.8	1.0382	1.0386	5.9630	61.3	56.1	0.0359
PROPANE	1.1746	2521.9	2320.4	1.5225	0.5179	2.9732	29.6	27.3	0.0179
iso-BUTANE	0.1260	3259.4	3006.9	2.0068	0.0732	0.4204	4.1	3.8	0.0025
n-BUTANE	0.2191	3269.8	3017.4	2.0068	0.1273	0.7311	7.2	6.6	0.0044
iso-PENTANE	0.0405	4010.2	3707.6	2.4911	0.0292	0.1678	1.6	1.5	0.0010
n-PENTANE	0.0311	4018.0	3715.6	2.4911	0.0224	0.1288	1.2	1.2	0.0008
C6 plus	0.0470	5194.5	4812.8	3.2521	0.0443	0.2541	2.4	2.3	0.0015
CARBON DIOXIDE	1.0520	0.0	0	1.5195	0.4629	2.6574	0.0	0.0	0.0160
OXYGEN	0.0829	0.0	0	1.1048	0.0265	0.1523	0.0	0.0	0.0009
NITROGEN	0.5238	0.0	0	0.9672	0.1467	0.8420	0.0	0.0	0.0051
Totals ----->	100.000				17.4	100.0	1051.5	948.6	0.6025

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00608
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99772

Total Mol Wt. ROC C3 to C6+ = 0.8144 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.68%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0022 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1053.9 BTU/real cubic foot
LHV	950.8 BTU/real cubic foot
Specific Gravity	0.6038

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Goleta plant fuel OM 3464
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.2314	**1012.3**	**911.5**	**0.5539**	**14.9263**	**85.6779**	943.8	849.8	0.5164
ETHANE	3.4601	**1773.8**	**1622.8**	**1.0382**	**1.0405**	**5.9722**	61.4	56.1	0.0359
PROPANE	1.1674	**2521.9**	**2320.4**	**1.5225**	**0.5147**	**2.9544**	29.4	27.1	0.0178
iso-BUTANE	0.1260	**3259.4**	**3006.9**	**2.0068**	**0.0732**	**0.4204**	4.1	3.8	0.0025
n-BUTANE	0.2195	**3269.8**	**3017.4**	**2.0068**	**0.1276**	**0.7323**	7.2	6.6	0.0044
iso-PENTANE	0.0406	**4010.2**	**3707.6**	**2.4911**	**0.0293**	**0.1681**	1.6	1.5	0.0010
n-PENTANE	0.0312	**4018.0**	**3715.6**	**2.4911**	**0.0225**	**0.1292**	1.3	1.2	0.0008
C6 plus	0.0475	**5194.5**	**4812.8**	**3.2521**	**0.0447**	**0.2568**	2.5	2.3	0.0015
CARBON DIOXIDE	1.0616	**0.0**	**0**	**1.5195**	**0.4671**	**2.6812**	0.0	0.0	0.0161
OXYGEN	0.0850	**0.0**	**0**	**1.1048**	**0.0272**	**0.1561**	0.0	0.0	0.0009
NITROGEN	0.5297	**0.0**	**0**	**0.9672**	**0.1483**	**0.8513**	0.0	0.0	0.0051
Totals ----->	100.000				17.4	100.0	1051.3	948.4	0.6026

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99772

Total Mol Wt. ROC C3 to C6+ = 0.8121 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1053.7 BTU/real cubic foot
LHV	950.6 BTU/real cubic foot
Specific Gravity	0.6039

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Micro Turbine Fuel Gas
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.1154	**1012.3**	**911.5**	**0.5539**	**14.9078**	**85.5040**	942.6	848.7	0.5158
ETHANE	3.4524	**1773.8**	**1622.8**	**1.0382**	**1.0381**	**5.9543**	61.2	56.0	0.0358
PROPANE	1.1714	**2521.9**	**2320.4**	**1.5225**	**0.5165**	**2.9622**	29.5	27.2	0.0178
iso-BUTANE	0.1259	**3259.4**	**3006.9**	**2.0068**	**0.0732**	**0.4197**	4.1	3.8	0.0025
n-BUTANE	0.2192	**3269.8**	**3017.4**	**2.0068**	**0.1274**	**0.7307**	7.2	6.6	0.0044
iso-PENTANE	0.0407	**4010.2**	**3707.6**	**2.4911**	**0.0294**	**0.1684**	1.6	1.5	0.0010
n-PENTANE	0.0314	**4018.0**	**3715.6**	**2.4911**	**0.0227**	**0.1299**	1.3	1.2	0.0008
C6 plus	0.0459	**5194.5**	**4812.8**	**3.2521**	**0.0432**	**0.2479**	2.4	2.2	0.0015
CARBON DIOXIDE	1.0560	**0.0**	**0**	**1.5195**	**0.4646**	**2.6650**	0.0	0.0	0.0160
OXYGEN	0.1153	**0.0**	**0**	**1.1048**	**0.0369**	**0.2116**	0.0	0.0	0.0013
NITROGEN	0.6266	**0.0**	**0**	**0.9672**	**0.1754**	**1.0063**	0.0	0.0	0.0061
Totals ----->	100.000				17.4	100.0	1050.0	947.2	0.6030

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.8
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00013
Z = 1.00369 - A + B	0.99773

Total Mol Wt. ROC C3 to C6+ = 0.8123 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1052.4 BTU/real cubic foot
LHV	949.4 BTU/real cubic foot
Specific Gravity	0.6044

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Dehy Flare Inlet
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	66.9557	1012.3	911.5	0.5539	10.7196	42.1258	677.8	610.3	0.3709
ETHANE	8.6067	1773.8	1622.8	1.0382	2.5880	10.1704	152.7	139.7	0.0894
PROPANE	5.5264	2521.9	2320.4	1.5225	2.4366	9.5753	139.4	128.2	0.0841
iso-BUTANE	0.8079	3259.4	3006.9	2.0068	0.4696	1.8452	26.3	24.3	0.0162
n-BUTANE	2.0264	3269.8	3017.4	2.0068	1.1777	4.6283	66.3	61.1	0.0407
iso-PENTANE	0.5030	4010.2	3707.6	2.4911	0.3629	1.4262	20.2	18.6	0.0125
n-PENTANE	0.4486	4018.0	3715.6	2.4911	0.3237	1.2719	18.0	16.7	0.0112
C6 plus	1.4882	5194.5	4812.8	3.2521	1.4016	5.5081	77.3	71.6	0.0484
CARBON DIOXIDE	13.4107	0.0	0	1.5195	5.9007	23.1885	0.0	0.0	0.2038
OXYGEN	0.0711	0.0	0	1.1048	0.0228	0.0894	0.0	0.0	0.0008
NITROGEN	0.1553	0.0	0	0.9672	0.0435	0.1709	0.0	0.0	0.0015
Totals ----->	100.000				25.4	100.0	1177.9	1070.6	0.8794

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	13.6
A = (Total SG)(0.0101)	0.00888
B = (Total Non-HC)(.0070)	0.00095
Z = 1.00369 - A + B	0.99576

Total Mol Wt. ROC C3 to C6+ = 6.1721 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 24.25%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0163 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1183.0 BTU/real cubic foot
LHV	1075.1 BTU/real cubic foot
Specific Gravity	0.8831

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Tank Farm Flare
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	72.7804	1012.3	911.5	0.5539	11.6521	51.9036	736.8	663.4	0.4031
ETHANE	6.9004	1773.8	1622.8	1.0382	2.0750	9.2427	122.4	112.0	0.0716
PROPANE	5.2386	2521.9	2320.4	1.5225	2.3097	10.2884	132.1	121.6	0.0798
iso-BUTANE	0.7406	3259.4	3006.9	2.0068	0.4304	1.9173	24.1	22.3	0.0149
n-BUTANE	1.4706	3269.8	3017.4	2.0068	0.8547	3.8073	48.1	44.4	0.0295
iso-PENTANE	0.2896	4010.2	3707.6	2.4911	0.2089	0.9307	11.6	10.7	0.0072
n-PENTANE	0.2349	4018.0	3715.6	2.4911	0.1695	0.7549	9.4	8.7	0.0059
C6 plus	0.6763	5194.5	4812.8	3.2521	0.6370	2.8373	35.1	32.5	0.0220
CARBON DIOXIDE	4.9151	0.0	0	1.5195	2.1626	9.6333	0.0	0.0	0.0747
OXYGEN	1.4653	0.0	0	1.1048	0.4689	2.0887	0.0	0.0	0.0162
NITROGEN	5.2883	0.0	0	0.9672	1.4807	6.5958	0.0	0.0	0.0511
Totals ----->	100.000				22.4	100.0	1119.7	1015.6	0.7760

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	11.7
A = (Total SG)(0.0101)	0.00784
B = (Total Non-HC)(.0070)	0.00082
Z = 1.00369 - A + B	0.99667

Total Mol Wt. ROC C3 to C6+ = 4.6102 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 20.54%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1123.4 BTU/real cubic foot
LHV	1019.0 BTU/real cubic foot
Specific Gravity	0.7786

Total lbs of ROC C3 to C6+ per ft^3 = 0.0122 lb/cf

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD FINAL
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2343	1012.3	911.5	0.5539	14.1550	77.0818	893.2	804.3	0.4887
ETHANE	5.0374	1773.8	1622.8	1.0382	1.5147	8.2484	89.4	81.7	0.0523
PROPANE	0.9857	2521.9	2320.4	1.5225	0.4347	2.3669	24.9	22.9	0.0150
iso-BUTANE	0.2989	3259.4	3006.9	2.0068	0.1737	0.9460	9.7	9.0	0.0060
n-BUTANE	0.2957	3269.8	3017.4	2.0068	0.1719	0.9359	9.7	8.9	0.0059
neo-PENTANE	0.0000	3993.9	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0989	4010.2	3707.6	2.4911	0.0714	0.3886	4.0	3.7	0.0025
n-PENTANE	0.1000	4018.0	3715.6	2.4911	0.0721	0.3929	4.0	3.7	0.0025
C6 plus	0.0688	5194.5	4812.8	3.2521	0.0648	0.3529	3.6	3.3	0.0022
CARBON DIOXIDE	2.0261	0.0	0	1.5195	0.8917	4.8557	0.0	0.0	0.0308
OXYGEN	0.3543	0.0	0	1.1048	0.1134	0.6174	0.0	0.0	0.0039
NITROGEN	2.4999	0.0	0	0.9672	0.7003	3.8136	0.0	0.0	0.0242
Totals ----->	100.000				18.4	100.0	1038.4	937.5	0.6340

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00640
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99763

Total Mol Wt. ROC C3 to C6+ = 0.5539 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1040.9 BTU/real cubic foot
LHV	939.7 BTU/real cubic foot
Specific Gravity	0.6355

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

SOUTHERN CALIFORNIA GAS COMPANY

CHAIN OF CUSTODY RECORD

Special Instructions:
Lab _____ please furnish
1. signed analysis report
2. QA/QC report
3. chain of custody

Project No: TS2014-C015
Requestor: Dennis Lowrey
Sampling Site: La Goleta Storage

Sample ID & Location	Date	Time	Collected by	Container type	Sample type	Preservative	Analysis Required
Reservoir Quality Gas Miller 8	2/5/2014	9:55AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Pipeline Quality Gas L-247	2/5/2014	`9:35AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Goleta plant fuel OM 3464	2/5/2014	8:17AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Micro-Turbine Fuel Gas	2/5/2014	8:41AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Dehy Flare Inlet	2/5/2014	8:05AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Tank Farm Flare	2/5/2014	9:05AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98

Relinquished by (signature)	Company & Department	Date	Time	Received by (signature)	Company & Department
	SoCalGas/Goleta Storage	~~2/5/2014~~ 2/7/14	7:30 AM	Johnita Verdugo EAC	Johnita Verdugo

Oilfield Environmental and Compliance, INC.

Dennis Lowrey
Southern California Gas Company
PO BOX 818
Goleta, CA 93116

12 February 2014

RE: La Goleta Storage Work Order: 1400558

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 05-Feb-14 15:30 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Meredith Sprister

Project Manager

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Reservoir Quality Gas Miller #8	1400558-01	Air	05-Feb-14 09:51	05-Feb-14 15:30
Pipeline Quality Gas Line 247	1400558-02	Air	05-Feb-14 09:44	05-Feb-14 15:30
Goleta Plant Fuel OM 3464	1400558-03	Air	05-Feb-14 08:19	05-Feb-14 15:30
Tank Farm Flare Inlet	1400558-04	Air	05-Feb-14 09:15	05-Feb-14 15:30
Microturbine Fuel Gas	1400558-05	Air	05-Feb-14 08:47	05-Feb-14 15:30

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Reservoir Quality Gas Miller #8

1400558-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Pipeline Quality Gas Line 247

1400558-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Goleta Plant Fuel OM 3464

1400558-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Tank Farm Flare Inlet

1400558-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	**0.77**	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	**0.20**	0.050	"	"	"	"	"	"	
Carbon disulfide	**0.21**	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	**4.4**	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	**2.3**	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	**3.3**	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	**11**	0.050	"	"	"	"	"	"	

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Microturbine Fuel Gas

1400558-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Oilfield Environmental and Compliance

Sulfur Compounds

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"
Carbon disulfide	ND	0.050	"	"	"	"	"	"
Sulfur dioxide	ND	0.050	"	"	"	"	"	"
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Sulfur Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A402100 - None-gases										
Blank (A402100-BLK1)				Prepared & Analyzed: 05-Feb-14						
Hydrogen Sulfide (H2S)	ND	0.050	ppmv							
Carbonyl Sulfide	ND	0.050	"							
Carbon disulfide	ND	0.050	"							
Sulfur dioxide	ND	0.050	"							
Methyl Mercaptan	ND	0.050	"							
Ethyl Mercaptan	ND	0.050	"							
Dimethyl Sulfide	ND	0.050	"							
Total Unknown Sulfur Compounds as H2S	ND	0.050	"							
Total Reduced Sulfur as S	ND	0.050	"							
LCS (A402100-BS1)				Prepared & Analyzed: 05-Feb-14						
Hydrogen Sulfide (H2S)	10	0.050	ppmv	9.98		101	70-130			
Carbonyl Sulfide	10	0.050	"	10.0		100	70-130			
Carbon disulfide	10	0.050	"	10.4		99.2	70-130			
Methyl Mercaptan	9.9	0.050	"	10.0		98.3	70-130			
Ethyl Mercaptan	10	0.050	"	10.2		98.6	70-130			
Dimethyl Sulfide	10	0.050	"	10.2		99.0	70-130			

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SOUTHERN CALIFORNIA GAS COMPANY
CHAIN OF CUSTODY RECORD

Special Instructions:
Lab _____ please furnish
1. signed analysis report
2. QA/QC report
3. Chain of custody

Project No: TS2014-C015
Requestor: Dennis Lowrey
Sampling Site: La Goleta Storage

Sample ID & Location	Date	Time	Collected by	Container type	Sample type	Preservative	Analysis Required
Reservoir Quality Gas Miller # 8	2/5/2014	9:51AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 1400558-1A
Pipeline Quality Gas Line 247	2/5/2014	9:44AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 2A
Goleta Plant Fuel OM 3464	2/5/2014	8:19AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 3A
Tank Farm Flare Inlet	2/5/2014	9:15AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 4A
Microturbine Fuel Gas	2/5/2014	8:47AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 5A

Relinquished by (signature)	Company & Department	Date	Time	Received by (signature)	Company & Department
	SoCalGas/Goleta Storage	2/5/2014	1344		OEC
	OEC	2/5/14	1530		OEC- RECEIVING

e-mail results to dalowrey@semprautilities.com
Dennis Lowrey 805.681.8072

SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: So. Cal Gas OEC ID #: 1400558 Temp: — °C

Acceptable Range: 0°C to 6°C

COC RECEIVED DATE/TIME: 2-5-14 @ 1530

RECEIPT LOGIN DATE/TIME: 2-5-14 @ 1555

REFRIGERATOR(s): GR

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:		Yes	No	N/A	(*) PROBLEM CHAIN FORM NEEDED
☒ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐	Custody Seals (circle): Present / (Absent)
☐ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐	Samples / Coolers
☐ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐	Intact / Broken*
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☒	☐*	☐	Method of Shipment & Tracking #(if applicable):
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☐	☒	
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☐	☐	☒	(**) OEC Preservative ID:
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒	Dissolved Metals Filtration: (Date/Init/Preserve ID)
	Tedlar Bags free of condensation	☒	☐*	☐	

CONTAINERS, COC CHANGES AND/OR CORRECTIONS — **CHANGES AUTHORIZED BY:**

OEC ID	Client ID ***If blank, refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
1-5A		1-TEDLAR EA	—		A		

RECEIPT LOGIN BY: EH **RECEIPT REVIEWED BY:** [signature]

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
13014	GOLETA STORAGE MAIN UNITS	5415372	PM	1/1/14	MAIN UNITS 2 THROUGH 9, SPARK PLUG CHANGE OUT - ANNUAL		ALL CHANGED AND ORDERED REPLACEMENTS	
13014	GOLETA STORAGE MAIN UNITS	5415582	PM	1/1/14	MAIN UNIT - ANNUAL AIR FILTER REPLACEMENT		ALL FILTERS REPLACED AND IN GOOD SHAPE	
13014	GOLETA STORAGE MAIN UNITS	5415358	PM	1/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5414936	PM	1/9/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5415659	PM	1/29/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		No run time.	
13014	GOLETA STORAGE MAIN UNITS	5415365	PM	2/4/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5414946	PM	2/6/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	MU 2 is OOS and powered down - No Thermocouple Reads
13014	GOLETA STORAGE MAIN UNITS	5415667	PM	2/28/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		no fail	Completed mu#6 and #8 No run time on other units
13014	GOLETA STORAGE MAIN UNITS	5441598	PM	3/3/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5440811	PM	3/13/14	ANNUAL - UG8 GOVERNOR INSPECTIONS		Completed, except	MU#2, #7, which are out - of -service at this time.
13014	GOLETA STORAGE MAIN UNITS	5441358	PM	3/13/14	GOLETA ALL MAIN UNITS - QRTLY ENGINE OIL ANALYSIS		no fail	MU-7 and MU-2 O.O.S.
13014	GOLETA STORAGE MAIN UNITS	5441367	PM	3/24/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
13014	GOLETA STORAGE MAIN UNITS	5467501	PM	4/3/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467779	PM	4/3/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5142287	PM	4/8/14	VALVE PM - MAIN UNIT #2,3,4 AUX. & PIT - ANNUAL		FREQUENCY OVERLAP COMPLETED ON 5414759	
13014	GOLETA STORAGE MAIN UNITS	5229737	PM	4/8/14	GOLETA VALVE PM - MU9 jacketwater		FREQUENCY OVERLAP COMPLETED ON 5467126	
13014	GOLETA STORAGE MAIN UNITS	5229778	PM	4/8/14	GOLETA VALVE PM - (MU9) CREW 3		FREQUENCY OVERLAP COMPLETED ON 5467167	
13014	GOLETA STORAGE MAIN UNITS	5255592	PM	4/13/14	VALVE PM - MAIN UNITS #2,3,4 - LUBE OIL, PIPE TRENCH - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467957	PM	4/29/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5441766	PM	5/3/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5492970	PM	5/5/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5493156	PM	5/5/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5467126	PM	5/26/14	GOLETA VALVE PM - MU9 Jacket Water		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5493368	PM	5/30/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		NO FAILURES	NO FAILURES

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
13014	GOLETA STORAGE MAIN UNITS	5515373	PM	6/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5515109	PM	6/4/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5515542	PM	6/26/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562501	PM	7/1/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562658	PM	7/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		no fail	MU-6 cyl #6 has been high, just broke 1300 degrees, no issues
13014	GOLETA STORAGE MAIN UNITS	5562147	PM	7/3/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562508	PM	8/4/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5562157	PM	8/6/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	MU 2 is O.O.S. for engine rebuild.
13014	GOLETA STORAGE MAIN UNITS	5562666	PM	8/28/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5613128	PM	9/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612921	PM	9/2/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612569	PM	9/8/14	M. U. EXHAUST TEMP. THERMOCOUPLE		INSPECTION COMPLETE, NO SUBSTANDARD	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTIONS-MONTHLY		CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5613136	PM	10/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612928	PM	10/7/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5612579	PM	10/9/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635860	PM	11/10/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635696	PM	11/18/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5635994	PM	11/26/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5659885	PM	12/1/14	M.U.#2 - #8 OVERHEAD CHECKS - MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5660829	PM	12/1/14	MONTHLY - M.U. TOTALFLOW DATA DOWNLOAD		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
13014	GOLETA STORAGE MAIN UNITS	5660732	PM	12/8/14	M. U. EXHAUST TEMP. THERMOCOUPLE INSPECTIONS-MONTHLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14230	MAIN #9 ALLEN BRADLEY PLC	5441485	PM	3/18/14	M.U.#9 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14230	MAIN #9 ALLEN BRADLEY PLC	5078185	CM	11/24/14	M.U.#9 INSTRUMENT CALIBRATON INSPECTIONS-ANNUAL			

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5485621	PM+	4/15/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5554375	PM+	7/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14543	COMPRESSOR DISCHARGE PRESSURE TRANSMITTER MU#9 (63TD)	5632793	PM+	10/14/14	GOLETA MAIN UNITS DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5403215	PM+	1/28/14	GOLETA MAIN UNITS SUCTION AND DISCHARGE TRANSMITTER INSPECTIONS - QUARTERLY		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5472601	PM	4/15/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5562679	PM	7/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
14885	COMPRESSOR SUCTION PRESSURE TRANSMITTER MU#9 (63TS)	5613173	PM	10/14/14	GOLETA MAIN UNIT SUCTION TRANSMITTER INSPECTION - NON-COMPLIANCE (QUARTERLY)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
18323	AIR COMPRESSOR, AUX. UNIT 4A	5441466	PM	3/4/14	4A AIR COMPRESSOR INSPECTION		Took unit out-of-	service, for crankcase oil leak.

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
18323	AIR COMPRESSOR, AUX. UNIT 4A	5542101	PM+	6/17/14	4A AIR COMPRESSOR INSPECTION (OLD# 6164)		Lp Comp. cyl. worn. .006	Over. re-assembled unit. Ordering replacement parts.
18323	AIR COMPRESSOR, AUX. UNIT 4A	5605850	PM+	9/1/14	4A AIR COMPRESSOR INSPECTION (OLD# 6164)		no fail	spark plugs, oil, valve lash, head torque all within spec no changes necessary. carb and air cleaner ok
18323	AIR COMPRESSOR, AUX. UNIT 4A	5681152	PM+	12/5/14	4A AIR COMPRESSOR INSPECTION (OLD# 6164)		performed per instuction	Changed spark plugs, replaced comp drive belt
18324	AIR COMPRESSOR, AUX. UNIT 5A	5415050	PM	1/29/14	5A AIR COMPRESSOR INSPECTION		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
18324	AIR COMPRESSOR, AUX. UNIT 5A	5467616	PM	4/10/14	5A AIR COMPRESSOR INSPECTION		Found foreign material	in compressor valves and clylinders. Air filters had rat marks on sealing surfaces, allowing dirt to pass filter cannisters.
18324	AIR COMPRESSOR, AUX. UNIT 5A	5554686	PM+	7/8/14	5A AIR COMPRESSOR INSPECTION (OLD# 6169)		Inspection	Adjusted valve lash, new air cleaner
18324	AIR COMPRESSOR, AUX. UNIT 5A	5633145	PM+	10/13/14	5A AIR COMPRESSOR INSPECTION (OLD# 6169)		hrs:76016	checked head torque, new spark plugs gapped .025, valve lash .030,air cleaners and oil in good condition, checked carb, compression 1.215 2.210 3.210 4.215
4484350	M.U. #9 - FUEL METER	5402920	PM+	1/23/14	SEMI-ANNUAL - M.U.#9 FUEL METER INSPECTION (OLD PM # GOLE547)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4484350	M.U. #9 - FUEL METER	5554671	PM+	7/15/14	SEMI-ANNUAL - M.U.#9 FUEL METER INSPECTION (OLD PM # GOLE547)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
4484350	M.U. #9 - FUEL METER	5563170	PM	8/27/14	ANNUAL- FUEL METER PROVING-M.U. #9		Meter proving for this unit is not due this year	
7555	GAS COMPRESSOR (MU #9)	5415700	PM	1/1/14	GOLETA MAIN UNIT TRABON INSPECTIONS – ANNUAL		ALL WORK LOGGED IN ENGINE BOOKS	
7555	GAS COMPRESSOR (MU #9)	5396608	PM	1/3/14	WEEKLY - M.U.#9 ENG. BALANCE		No run time.	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					INSPECTION			
7555	GAS COMPRESSOR (MU #9)	5416171	PM	1/7/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416180	PM	1/14/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416189	PM	1/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5416198	PM	1/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time. Schedule	to do an Inspection no time alotted. Complete work order now.
7555	GAS COMPRESSOR (MU #9)	5440935	PM	3/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5440953	PM	3/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5440944	PM	3/5/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No run time on unit
7555	GAS COMPRESSOR (MU #9)	5207851	PM	3/11/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Work order was completed by Mike Bagley 3/27/13	It was not completed in Maximo
7555	GAS COMPRESSOR (MU #9)	5466625	PM	3/11/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5440962	PM	3/12/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Emission testing, no	Kistler balancing.
7555	GAS COMPRESSOR (MU #9)	5466616	PM	3/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	No adjustments needed
7555	GAS COMPRESSOR (MU #9)	5466634	PM	3/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5441722	PM	3/19/14	ANNUAL - M.U. #9 - SAFETY SHUTDOWN INSPECTIONS		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7555	GAS COMPRESSOR (MU #9)	5466643	PM	3/25/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	3-27-14 start lo-inventory S/I, start.
7555	GAS COMPRESSOR (MU #9)	5466652	PM	4/1/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5466661	PM	4/8/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No checks.	
7555	GAS COMPRESSOR (MU #9)	5492832	PM	4/15/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Trouble shooting, use	of Kistler. Completed.
7555	GAS COMPRESSOR (MU #9)	5467694	PM	4/16/14	TOTALFLOW CALIBRATION - M.U.#9 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5492841	PM	4/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No usage.	
7555	GAS COMPRESSOR (MU #9)	5492850	PM	5/5/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5441463	PM	5/6/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	M.U. #9 Passed Emission Test on 3/3/2014
7555	GAS COMPRESSOR (MU #9)	5492859	PM	5/9/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Kistler training.	
7555	GAS COMPRESSOR (MU #9)	5514649	PM	5/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time.	
7555	GAS COMPRESSOR (MU #9)	5514658	PM	5/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Inspection of Kistler unit	No adjustments.Unit @ 938H.P.
7555	GAS COMPRESSOR (MU #9)	5514667	PM	6/2/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Not enough horsepower	
7555	GAS COMPRESSOR (MU #9)	5514676	PM	6/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No kistler operation,	This week.

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7555	GAS COMPRESSOR (MU #9)	5537952	PM	6/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		Made 2 rounds, Monday,	and Tuesday. No adjustments, just training.
7555	GAS COMPRESSOR (MU #9)	5542168	PM+	6/16/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		no fail	MU-9 HRS 63530
7555	GAS COMPRESSOR (MU #9)	5537961	PM	6/17/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		1 pass at 1100 Hp.	No adjustments.
7555	GAS COMPRESSOR (MU #9)	5515216	PM	6/18/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5537970	PM	6/25/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	Made small adjustments, see log for info
7555	GAS COMPRESSOR (MU #9)	5537979	PM	7/3/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		unit wasnt needed	
7555	GAS COMPRESSOR (MU #9)	5562698	PM	7/8/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No adjustments needed	
7555	GAS COMPRESSOR (MU #9)	5562707	PM	7/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		No run time	
7555	GAS COMPRESSOR (MU #9)	5562716	PM	7/28/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5562725	PM	7/31/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5562734	PM	8/7/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612252	PM	8/14/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612742	PM	8/14/14	M.U. #9 MAINTENANCE-QRTLY		INSPECTION COMPLETE, NO SUBSTANDARD	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
					EMISSION TESTING		CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5612261	PM	8/19/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no adjustments
7555	GAS COMPRESSOR (MU #9)	5612270	PM	8/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	Adjusted Cyl #1&9 down to bring up Cyl #2. Changed spark plug on Cyl #2
7555	GAS COMPRESSOR (MU #9)	5612279	PM	9/4/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5612297	PM	9/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5658607	CM	9/18/14	I nstall two "machine starting automatically" signs for MU#9	See WO# 5515536 FOR MORE DETAILS.	NONE	deficiencies corrected
7555	GAS COMPRESSOR (MU #9)	5612288	PM	9/18/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no adjustments made
7555	GAS COMPRESSOR (MU #9)	5606440	PM+	9/18/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5612306	PM	9/29/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no fail	no balance this week
7555	GAS COMPRESSOR (MU #9)	5612315	PM	9/30/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5613755	PM	10/1/14	M.U. #9 - FOUNDATION INSPECTION - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5613749	PM	10/8/14	TOTALFLOW CALIBRATION - M.U.#9 - SEMI-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5635293	PM	10/13/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS	5635302	PM	10/20/14	WEEKLY -		no balance this	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
	COMPRESSOR (MU #9)				M.U.#9 ENG. BALANCE INSPECTION		week	
7555	GAS COMPRESSOR (MU #9)	5659866	PM	10/20/14	M.U. #9 MAINTENANCE-QRTLY EMISSION TESTING		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5635311	PM	10/27/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5635320	PM	10/31/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no balance this week	
7555	GAS COMPRESSOR (MU #9)	5659792	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659801	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659810	PM	11/21/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659819	PM	11/26/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5681593	PM+	12/1/14	GOLETA MAIN UNIT 9 - QRTLY ENGINE OIL ANALYSIS (OLD# 1644)		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7555	GAS COMPRESSOR (MU #9)	5659828	PM	12/2/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659837	PM	12/9/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5659846	PM	12/16/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	
7555	GAS COMPRESSOR (MU #9)	5661293	PM	12/23/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		no run time	

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
7555	GAS COMPRESSOR (MU #9)	5661302	PM	12/30/14	WEEKLY - M.U.#9 ENG. BALANCE INSPECTION		insufficeint run time	
7555U	M.U. #9 - UPPER END	5497052	CM	3/4/14	REPLACE FUEL INJECTOR MU#9 CYL#3		REPLACE FUEL INJECTOR	ON CYL#3
7564	GAS ENGINE (AUX #4A)	5391780	CM	4/3/14	4-A Air compressor. Rear crank seal leak.	The Exhaust pipe just above roof line, has a 4" hole, on South side. Needs replacement.	Leaking past engine to	floor. Replaced clutch assembly, drive belts, oil/filter, adjusted governor,replaced exhaust muffler, and heat shield. Crankshaft seals replaced. Adjusted valve train, and re-torqued head. Replaced roof flashing.
7580	DIESEL ENGINE (AUX #12A)	5632508	PM+	9/11/14	UNIT 12A - ANNUAL ENGINE INSPECTION (OLD# GOL-8340)		no fail	changed oil and filter, changed cooling water filter, changed fuel and sediment filter, inspected all hoses, wires, and fitting
7581	FIRE WATER PUMP (AUX #12A)	5583067	PM+	11/25/14	Fire Pump 12A Flow Test - Annual		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7582	DIESEL ENGINE (AUX #13A)	5632518	PM+	9/15/14	UNIT 13A - ANNUAL ENGINE INSPECTION (OLD# GOL-8341)		no fail	changed oil &filter, changed coolant filter, changed fuel and sediment filter HRS:0303.2
7583	FIRE WATER PUMP (AUX #13A)	5583074	PM+	11/25/14	Fire Pump 13A Flow Test - Annual		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
7651	MU #9 JACKET WATER PUMP	5415562	PM	3/11/14	JACKET WATER PUMP INSPECTION - M.U.#9 - ANNUAL		In good service.	
GT-FW-FS-011	AUXILIARY 13A - RELIEF VALVE	5513283	CPM	5/8/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA UTILITY SYSTEMS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	No Failure - Test & Inspection Only
GT-FW-FS-015	AUXILIARY 12A - RELIEF VALVE	5513283	CPM	5/8/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA UTILITY SYSTEMS-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	No Failure - Test & Inspection Only

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-12A, APCD-13A, APCD-4A, APCD-5A, APCD-9, APCD-9FM, APCD-MAIN UNITS

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
IG-AR-081	NON-COMPLIANCE 5YR. RV,AIR COMPRESSOR 5A, DISCHARGE	5545120	PM+	9/29/14	NON-COMPLIANCE AIR RELIEF VALVE INSPEC., 5YR		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Installed new 270# RVs on Air Comp #1 and #2 Disch. manifold (one each)
IG-AR-085	NON-COMPLIANCE 5YR. RV,AIR COMPRESSOR 5A, INTERSTAGE	5545120	PM+	9/29/14	NON-COMPLIANCE AIR RELIEF VALVE INSPEC., 5YR		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	Installed new 270# RVs on Air Comp #1 and #2 Disch. manifold (one each)
IG-AR-355	NON-COMPLIANCE RV,AIR COMPRESSOR 4A (1 YEAR)	5543019	PM+	8/20/14	NON-COMPLIANCE AIR RELIEF VALVE INSPEC - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-AR-366	NON-COMPLIANCE RELIEF VALVE- AIR COMP. 4A, INTERSTAGE PIPING (1 YEAR)	5543019	PM+	8/20/14	NON-COMPLIANCE AIR RELIEF VALVE INSPEC - ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
IG-NG-194	COMPRESSOR DISCHARGE	5615595	CPM	11/12/14	COMPLIANCE RELIEF VALVE INSPECTION, GOLETA INJECTION SYSTEM-ANNUAL		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9

Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 6/9/14 / 6/10/14

Inspector Name - ERIC HALT / LOZANO & MAR

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	11.0			
CO corrected to 15% O2	≤ 4500 PPMV	256.8			
O2	≥ 13.5%	15.2			
Ignition Timing	0-10°	6°			
Engine Speed	≤ 305 RPM	300			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9 Part 70/SBAPCD Permit 9584-R4

Passed / As Found

Date - 3-3-14 Inspector Name - Gus Hunt / Rodriguez

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	27.3			
CO corrected to 15% O2	≤ 4500 PPMV	152.6			
O2	≥ 13.5%	14.6			
Ignition Timing	0-10°	7°			
Engine Speed	≤ 305 RPM	302			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9 Part 70/SBAPCD Permit 9584-R4

Passed As Found

Date - 8/12/14 Inspector Name - Chris Barsim / C. Rodriguez, G. Race

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	13.4			
CO corrected to 15% O2	≤ 4500 PPMV	306.0			
O2	≥ 13.5%	15.2			
Ignition Timing	0-10°	6.6			
Engine Speed	≤ 305 RPM	300			

INTERNAL COMBUSTION ENGINE

INSPECTION AND MAINTENANCE LOG

Company Name: Southern California Gas Company

Stationary Source Name: La Goleta

Stationary Source Address: 1171 More Ranch Road, Goleta

Engine Serial/ID Number: 41549/MU#9 Part 70/SBAPCD Permit 9584-R4

PASSED AS FOUND

Date - 10/26/14 Inspector Name - CHRIS HARWIN / J. LOZANO

Parameter	Parameter Compliance Value		Corrective Action (Date and Description)	Follow-Up Inspection	
	Allowed	Measured		Date	Parameter Value
NOx corrected to 15% O2	≤ 125 PPMV	41.4			
CO corrected to 15% O2	≤ 4500 PPMV	146.7			
O2	≥ 13.5%	14.3			
Ignition Timing	0-10°	6.6			
Engine Speed	≤ 305 RPM	300			

Goleta
2014
Equivalent Routine I.C. Engine Replacement

There were no engine replacements from January 1, 2014 through December 31, 2014.

Source Test Summary

Main Unit #9 is not scheduled for Source Testing until September 2015.

Southern California Gas Company®

A Sempra Energy® utility

Interoffice Memo

To: Dennis Lowrey

From: Marianne Mansour

Date: January 15, 2014

EAC PROJECT NO.: TS2014-C013

ACCOUNT NO.:FG8245052200-2200-0289

Subject: **Goleta-RVP for Tank 3**

THIS REPORT IS YOUR RECORD. THE EAC WILL DISCARD THIS REPORT ON 01/15/2019.

OBJECTIVE

Assist Underground Storage collect an oily water sample from Tank 3 at Goleta to determine Reid Vapor Pressure (RVP) and API Gravity.

RESULTS

Inspectorate Certificate of Analysis is attached.

Table 1. RVP Results

Sample ID	RVP (psi)	API Gravity @ 60F	Temperature (°F)
Tank 3	3.00	9.4	55.5
Tank 3 (Duplicate)	3.10	9.6	55.5
Tap Water	0.10	----	----

SAMPLE COLLECTION & ANALYSIS

On January 8, 2014, Engineering Analysis Center (EAC) personnel collected liquid samples directly from a tap from the Condensate-Tank 3 at Goleta for RVP testing. The tank was filled with 4704 gallons and has a capacity is 7000gal. Liquid level was 10' 3". As required by the ASTM method D-5191 sampling protocol, the sample was collected in one quart glass jar (approximately 70% to 80% filled), labeled, and placed in an ice chest to keep the sample at approximately 4°C. Prior to sampling, the condensate had been circulating.

Inspectorate laboratory analyzed the samples for RVP (ASTM D323 Proc. A) and API Gravity (ASTM D4052). Analytical reports are attached. The analytical cost will be charged to the account number listed above.

MM/RVP Goleta TK3 Condensate 01-08-14.docx/Attachment: Inspectorate Report # 2013-081-02136

Cc: Shahid Razzak (via email w/ attachment)
Bob Hilty (via email w/ attachment)

Inspectorate
22934 Lockness Avenue
Torrance, California 90501 USA
T: 310-326-4429
F: 310-326-4470

Certificate of Analysis

INSPECTORATE

Vessel / Shore Tank :	**Southern California Gas Company**	Sample Submitted By :	Southern California Gas Com
Product :	**Water**	Analysis Performed By :	IAC Los Angeles
Client Reference :	**Project# TS2014-C013**	Date Sampled :	08-Jan-2014
Terminal / Port / Office :	Goleta Station	Date Reported :	10-Jan-2014
Job ID :	2013-081-02136	Submission ID :	2013-081-02136
Comments :			

	CLEAN WATER / 1-8-14 @ 0825	
	2013-081-02136-001	Submitted
Method	**Test**	**Result**
M(a) ASTM D323 Proc. A	Reid Vapor Pressure , psi / kPa	0.10 / 0.68

	Tank 3 / 1-8-14 @ 0830	
	2013-081-02136-002	Submitted
Method	**Test**	**Result**
M(a) ASTM D323 Proc. A	Reid Vapor Pressure , psi / kPa	3.00 / 20.55
ASTM D4052	API Gravity @ 60°F	9.4

	Tank 3 (Dup) / 1-8-14 @ 0835	
	2013-081-02136-003	Submitted
Method	**Test**	**Result**
M(a) ASTM D323 Proc. A	Reid Vapor Pressure , psi / kPa	3.10 / 21.23
ASTM D4052	API Gravity @ 60°F	9.6

M(a) **Modification (a) - Analysis to be performed on product not specified by the method.**

For Inspectorate: _____

Anthony Riccardi, Assistant Laboratory Manager

http://www.arb.ca.gov/drdb/sb/curhtml/r325.pdf

RVP from analysis	3.1	psi
Temp (°F)	67.2	
Convert °F to °R	°F + 460	
irTemp	0.001897929	
iTemp	0.001786703	
C_o	-6212.1	Table C3
C_o(irTemp-itemp)	-0.690947068	
exp	0.501101267	
TVP	1.553413928	psi
Corrected TVP	Calculated TVP+C_F	
C_F	0.224	
	1.777413928	psi

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GOLETA PRODUCT MOVEMENT THROUGH STOREROOM

2014 PTO 9584-R4, 9.C.15(j)

(Gel-Away in gallons)

PRODUCT	BEGINNING OF MONTH	IN INVENTORY	QUANTITY RECEIVED	END OF MONTH INVENTORY	QUANTITY USED
Gel-Away	JAN	8	0	8	0
	FEB	8	0	8	0
	MAR	8	0	8	0
	APR	8	0	8	0
	MAY	8	0	8	0
	JUN	8	0	8	0
	JUL	8	0	8	0
	AUG	8	0	8	0
	SEP	8	0	8	0
	OCT	8	0	8	0
	NOV	8	0	8	0
	DEC	8	0	8	0
				Total	0

PTO 9584-R4, 9.C.15(j)

Goleta
Solvent information
2014

Gel-Away FO

Density: 6.27 lb/gal
VOC Content: 752 gm/l or 6.27 lb/gal
Amount Reclaimed: None
Photochemically reactive: No

Emissions (VOC/ROC):

Jan. 2014 - (0 gallons):
Feb.2014 - (0 gallons):
Mar. 2014 - (0 gallons):
April 2014- (0 gallons):
May 2014 - (0 gallons):
June 2014 - (0 gallons):
July 2014 – (0 gallons):
Aug. 2014 – (0 gallons):
Sept. 2014 – (0 gallons):
Oct. 2014 - (0 gallons):
Nov. 2014 – (0 gallon):
Dec. 2014 - (0 gallons):
Total VOC/Yr = 0 lbs, VOC/Mo=0, VOC/day = 0 lbs

Other Solvent Usage

Carboline Thinner #2
VOCs 850 gr/ltr 7.08 lbs/gal
Photochemically Reactive: Yes

Rule 317 - Organic Solvents: This rule sets specific prohibitions against the discharge of emissions of both photochemically and non-photochemically reactive organic solvents (40 lb/day and 3,000 lb/yr respectively).

Paint and Coatings Emissions
Jan through December 2014

PTO 9584-R4, 9.C.15(j)

Carboline Carboguard 890 VOC (thinned)
Density: 12.51 lb/gal
VOC Content: 1.7 lb/gal or 214 g/l
VOC Content after thinning ≤ 2.08 lb/gal or 248.7 g/l.
Emissions (VOC/ROC):
Jan. – Dec 2014 (5.43 gallons): .45 lb/month or ~ .01 lb/day

Carboline Carbothane 133 MC (thinned)
Density: 13 lb/gal
VOC Content: .81 lb/gal or 97 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Carboline Carbothane 134 MC (thinned)
Density: 13 lb/gal
VOC Content: .45 lb/gal or 54 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (39.63 gallons): 3.3 lb/month or ~ .11 lb/day

Carboline Carbothane 134 VOC (thinned)
Each gallon thinned with Carboline Thinner # 215
VOC Content after thinning ≤ 2.06 lb/gal or 247 g/l.
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Ellis Maximus W/B ENAMEL Suntan Beige Paint
Density: 9.12 lb/gal
VOC Content: 0.81 lb/gal or 97 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): .0 lb/month or ~ .0 lb/day

Ellis W/B DTM GLOSS Eucalyptus Green Paint
Density: 9.22 lb/gal
VOC Content: 2.02 lb/gal or 242 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Carboline Carbocrylic 3358 Primer Paint
Density: <11.0 lb/gal
VOC Content: 1.28 lb/gal or 153 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Paint and Coatings Emissions
Jan through December 2014

Ellis Maximus Water Green Paint
Density: 9.12 lb/gal
VOC Content: 0.83 lb/gal or <100 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0/lb month or 0 lb/day

Break-Through Clear Gloss Base (unthinned)
Weight: 11.294 lb/gal
VOC Content: .59 lb/gal or 71 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Break-Through Satin Wroght Iron Black (unthinned)
Weight: 11.655 lb/gal
VOC Content: .59 lb/gal or 70 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Break-Through Satin Ind. Clear Base (unthinned)
Weight: 11.612 lb/gal
VOC Content: .60 lb/gal or 71 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Break-Through Deep Base Yellow (unthinned)
Weight: 11.494 lb/gal
VOC Content: .59 lb/gal or 70 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

#1180 White Striping Paint (unthinned)
Weight: .918 lb/gal
VOC Content: .918 lb/gal or 110 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

#1186 Yellow Striping Paint (unthinned)
Weight: 10 lb/gal
VOC Content: .918 lb/gal or 110 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

#1182 Blue Striping Paint (unthinned)
Weight: 10 lb/gal
VOC Content: .918 lb/gal or 110 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Paint and Coatings Emissions
Jan through December 2014

MC-Miozinc 100 Paint (unthinned)
Weight: 19.5 lb/gal
VOC Content: .8 lb/gal or 100 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

MC-CR 100 Paint (unthinned)
Weight: 19.5 lb/gal
VOC Content: .8 lb/gal or 100 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): lb/month or ~ lb/day

DEVTHANE 379H Paint (thinned w/#800)
Weight: 16 lb/gal
VOC Content: .83 lb/gal or 100 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): lb/month or ~ lb/day

DEVTHANE 379H Paint (thinned w/#T9 or T17)
Weight: 16 lb/gal
VOC Content: 2.08 lb/gal or 250 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): lb/month or ~ lb/day

BAR-RUSTTM 235H Paint (un-thinned)
Weight: 13.2 lb/gal
VOC Content: 1.95 lb/gal or 234 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): lb/month or ~ lb/day

Thermalox High Temp (un-thinned)
Weight: 11.1 lb/gal
VOC Content: 2.8 lb/gal or 336 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Paint and Coatings Emissions
Jan through December 2014

3M Scotchkote
Weight: 13 lb/gal
VOC Content: .02 lb/gal or 12 g/l
Emissions (VOC/ROC):
Jan. – Dec 2014 (0 gallons): 0 lb/month or ~ 0 lb/day

Thermaline 4700
VOC Content: 2.6 lb/gal or 312 g/L
Emissions (VOC/ROC):
Jan. – Dec. 2014 (.75 gallons): .06 lb/month ~ 0 lb/day

Carbomastic 15
VOC Content: .733 lb/gal or 88 g/L
Emissions (VOC/ROC)
Jan. – Dec 2014 (22.75 gallons): 1.89 lb/month ~0.06 lb/day

Thermaline 4100
VOC Content: 3.39 lb/gal or 407 g/L
Jan. – Dec 2014 (0.5 gallons): 0.041 lb/month ~0 lb/day

Paint ordered into Goleta Storeroom 2014

Jan. – June 2014

part number	gallon cans of paint	
N308302	Eucalyptus Green	0 gallons
N308596	Primer	0 gallons
N308323	Suntan (old part # N308313 replaced)	0 gallons
N308314	Water Green	0 gallons
56-90	Breakthrough Satin Black	0 gallons
56-1	Breakthrough Satin White	0 gallons
56-450	Breakthrough Clear Gloss Base (used for brown, orange, green, blue, yellow, & safety yellow)	0 gallons

July – Dec. 2014

part number	gallon cans of paint	
N308302	Eucalyptus Green	0 gallons
N308596	Primer	0 gallons
N308323	Suntan	0 gallons
N308314	Water Green	0 gallons
56-90	Breakthrough Satin Black	0 gallons
56-1	Breakthrough Satin White	0 gallons
56-450	Breakthrough Clear Gloss Base (used for brown, orange, green, blue, yellow, & safety yellow)	0 gallons

GOLETA GAS VENTED TO ATMOSPHERE (mcf)

Gas Vented is limited to 10 MMscf/Year **2014**

	Before Dehy Plants (Reservoir)	ROC CONTENT %	ROC TOTAL lb.	Pipeline Quality	ROC CONTENT %	ROC TOTAL lb.
JAN	82.65	4.81	181.83	0.00	4.68	0.00
FEB	0.76	4.81	1.67	0.77	4.68	1.69
MAR	0.00	4.81	0.00	1.45	4.68	3.19
APR	1.60	4.81	3.53	88.69	4.68	195.12
MAY	0.46	4.81	1.01	1.32	4.68	2.91
JUN	65.37	4.81	143.82	1.33	4.68	2.92
JUL	0.59	4.81	1.29	28.25	4.68	62.14
AUG	3.34	4.81	7.34	2.15	4.68	4.73
SEP	0.96	4.81	2.12	4.07	4.68	8.95
OCT	0.99	4.81	2.18	16.10	4.68	35.42
NOV	1.45	4.81	3.18	35.73	4.68	78.60
DEC	0.95	4.81	2.09	0.86	4.68	1.89
TOTAL	159.12		350.06	180.71		397.56

Goleta
2014
TRS Content of Gas Vented to Atmosphere

	Reservoir Gas (mcf)	TRS Content (ppm)	Total Sulfur (lb as H2S)	Pipeline Gas (mcf)	TRS Content (ppm)	Total Sulfur (lb as H2S)
Jan	82.651	0	0.0000	0.000	0	0.0000
Feb	0.761	0	0.0000	0.766	0	0.0000
Mar	0.000	0	0.0000	1.450	0	0.0000
Apr	1.603	0	0.0000	88.690	0	0.0000
May	0.459	0	0.0000	1.324	0	0.0000
Jun	65.372	0	0.0000	1.329	0	0.0000
Jul	0.587	0	0.0000	28.245	0	0.0000
Aug	3.338	0	0.0000	2.148	0	0.0000
Sep	0.963	0	0.0000	4.069	0	0.0000
Oct	0.990	0	0.0000	16.100	0	0.0000
Nov	1.447	0	0.0000	35.727	0	0.0000
Dec	0.948	0	0.0000	0.860	0	0.0000
TOTAL	159.119	0	0.0000	180.708	0	0.0000

SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

Dehydration Plant Processed Gas Limit is 680 MMscfDay

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of January, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	136.7
2	131.6
3	37.4
4	38.3
5	104.4
6	173.6
7	242.9
8	169.3
9	166.8
10	143.0
11	124.7
12	184.2
13	158.2
14	197.9
15	166.2
16	154.9
17	102.9
18	135.6
19	151.4
20	194.4
21	215.7
22	184.7
23	193.5
24	164.0
25	182.0
26	213.1
27	215.5
28	195.1
29	189.7
30	144.1
31	156.7

4968.780

Average daily W/D this month per W/D flow day = 160.3 M2SCFD

* 31.0

total W/D for month
# of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	121.8
2	31.1
3	35.7
4	98.9
5	164.6
6	240.8
7	169.7
8	162.2
9	144.0
10	123.6
11	180.8
12	157.7
13	194.5
14	162.7
15	152.9
16	88.5
17	121.8
18	141.8
19	182.3
20	209.8
21	184.5
22	194.5
23	163.7
24	180.2
25	206.2
26	210.1
27	190.0
28	186.9
29	141.5
30	152.5
31	166.2

4861.732

Average daily dehydration this month per W/D flow day = 156.8 M2SCFD

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SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of February, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	175.7
2	236.9
3	233.5
4	214.1
5	224.8
6	246.0
7	187.0
8	195.6
9	190.8
10	232.4
11	263.1
12	248.9
13	246.8
14	221.4
15	69.3
16	0.0
17	0.0
18	0.0
19	6.8
20	54.1
21	116.7
22	98.2
23	107.7
24	112.3
25	107.2
26	132.4
27	58.4
28	33.2
29	
30	
31	

4013.424

Average daily W/D this month per W/D flow day = 154.4 M2SCFD

* 26.0

total W/D for month / # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	163.0
2	235.0
3	227.0
4	215.0
5	231.0
6	244.0
7	182.0
8	194.0
9	189.0
10	231.0
11	263.0
12	245.0
13	244.0
14	218.0
15	66.0
16	0.0
17	0.0
18	0.0
19	7.0
20	54.0
21	116.0
22	98.0
23	104.0
24	106.0
25	99.0
26	130.0
27	57.0
28	33.0
29	
30	
31	

3951.000

Average daily dehydration this month per W/D flow day = 158.0 M2SCFD

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SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of March, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	106.7
2	102.0
3	19.9
4	13.8
5	48.1
6	189.8
7	7.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.1
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	

487.446

Average daily W/D this month per W/D flow day = 60.9 M2SCFD

* total W/D for month
8.0 # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	104.0
2	99.0
3	18.0
4	13.0
5	46.0
6	185.0
7	6.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	

471.000

Average daily dehydration this month per W/D flow day = 67.3 M2SCFD

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SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of April, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	16.6
8	15.8
9	0.0
10	5.6
11	0.0
12	0.0
13	0.0
14	17.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	14.7
23	9.9
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	15.7
30	14.3
31	

109.659

Average daily W/D this month per W/D flow day = 13.7 M2SCFD

* 8.0

total W/D for month / # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	16.0
8	15.0
9	0.0
10	5.0
11	0.0
12	0.0
13	0.0
14	16.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	14.0
23	9.0
24	7.0
25	0.0
26	0.0
27	0.0
28	0.0
29	16.0
30	14.0
31	

112.000

Average daily dehydration this month per W/D flow day = 12.4 M2SCFD

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SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of May, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.2
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.249

Average daily W/D this month per W/D flow day = 0.2 M2SCFD

#DIV/0! total W/D for month
1.0 # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.000

Average daily dehydration this month per W/D flow day = #DIV/0! M2SCFD

0

SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of June, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.000

Average daily W/D this month per W/D flow day = #DIV/0! M2SCFD

* total W/D for month
0.0 # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.000

Average daily dehydration this month per W/D flow day = #DIV/0! M2SCFD

0

SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of July, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	12.1
16	23.9
17	15.3
18	0.0
19	0.0
20	0.0
21	0.0
22	10.3
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	18.4
29	0.0
30	0.0
31	0.0

79.993

Average daily W/D this month per W/D flow day = 16.0 M2SCFD

* 5.0

total W/D for month / # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	12.0
16	23.0
17	15.0
18	0.0
19	0.0
20	0.0
21	0.0
22	10.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	18.0
29	1.0
30	0.0
31	0.0

79.000

Average daily dehydration this month per W/D flow day = 13.2 M2SCFD

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SOUTHERN CALIFORNIA GAS COMPANY
La Goleta PTO #9584-R4

"Processed Gas Flow Measurement Plan"
Withdrawal/Dehydration Activity Log
Month of August, 2014

(Combined daily total through meters 3419w, 3433w)

Gas Volume Withdrawal in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.000

Average daily W/D this month per W/D flow day = #DIV/0! M2SCFD

* total W/D for month
0.0 # of W/D flow days

(Combined daily total f.l. #212)

Gas Volume Dehydrated in MMSCFD

DATE	VOLUME
1	0.0
2	0.0
3	0.0
4	0.0
5	0.0
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	0.0
25	0.0
26	0.0
27	0.0
28	0.0
29	0.0
30	0.0
31	0.0

0.000

Average daily dehydration this month per W/D flow day = #DIV/0! M2SCFD

0

Goleta

2014

Glycol Added to Dehydration System (gallons)

Jan	1370
Feb	1,220
Mar	200
Apr	0
May	0
Jun	0
Jul	0
Aug	0
Sep	0
Oct	0
Nov	0
Dec	100

Tank Farm Maintenance
Permit Condition 9.C.7(d)(iii)A-D Recordkeeping Requirements Summary

T-1 (Float Cell) is #1219, T-2 (Float Cell) is #1220, T3 (Condensate) is #1217,
T-4 (Brine Water) is #1218

These tanks are under blanket gas (Pipeline Quality) and are vented to a flare with 95% destruction efficiency.

5/22/2014 Tanks #T1-T4, SC Fields Annual PVSV inspections & maintenance, See Emissions sheet

La Goleta Tank Farm Maintenance Emissions

	Start	End
	10:15:00	3:00PM
Date: 5/22/2014		
	5/22/2014 10:00	5/22/2014 12:12

Tank Farm R.V. Test Data

		Before	After	
	Tank Pressures (" of H2O)	0.6	0 6	**RVs**

	Tank Levels (Inches)	In s		Ft.
Tank #4	Brine Tank	89 0	89.0 LT-604	7.42
Tank #3	Condensate Tank	57 0	57.0 LT-603	4.75
Tank #1	Flotation Cell #1	14.0	14.0 LT-600	1 17
Tank #2	Flotation Cell #2	34.0	34.0 LT-601	2 83

Relief Valves

	Setpoint (" of H2O)	Test	Lockup	Time (sec.)
IG-BG-090	6 5	6.5	6.1	10
IG-BG-091	6 5	6.5	6	35

Tank Vapor Space Volumes

Tank #1	(Tank Height - Min Level During Test) x Tank Volume Factor = (12 ft - 1 31 ft) x 113.09 ft^3/ft =	1224.76
Tank #2	(Tank Height - Min Level During Test) x Tank Volume Factor = (12 ft - 1.40 ft) x 113.09 ft^3/ft =	1037 04
Tank #3	(Tank Height - Min Level During Test) x Tank Volume Factor = (12 ft - 1.44 ft) x 78 54 ft^3/ft =	569 42
Tank #4	(Tank Height - Min Level During Test) x Tank Volume Factor = (12 ft - 0 63 ft) x 452.40 ft^3/ft =	2071.99
Volume of Piping and Tank Roof Cones		478 80
	Total Volume of Vapor Space	5382.01

Pipeline Quality Gas Sample Data (2/7/2014 Sample)

Mol wt	17 4	**2/7/2014**
Mol Wt % ROC	0 0468	**2/7/2014**

ROC = Change in Pressure * 0.0361 (converts "H2O to lbs) * Total Volume of Vapor Space/(10.73*525) * Mol Wt of Gas * ROC %

Test #1 (IG-BG-090)

ROC = (c19-d19) * 0 0361 * j29/(10 73*525) * c32*c33 = 0 01 lbs ROC

Test #2 (IG-BG-091)

ROC = (c20-d20) * 0 0361 * j29/(10.73*525) * c32*c33 = 0.01 lbs ROC

5/22/2014

TOTAL ROC Emissions **0.02 lbs ROC**

GOLETA

HYDROCARBON CONDENSATE TANK THROUGHPUT

Month	Condensate Tank (gallons)
Jan-15	0.0
Feb-15	1,225.0
Mar-15	0.0
Apr-15	0.0
May-15	0.0
Jun-15	0.0
Jul-15	0.0
Aug-15	0.0
Sep-15	0.0
Oct-15	0.0
Nov-15	0.0
Dec-15	0.0
TOTAL	1,225.0

Goleta
Truck Loading of Hydrocarbon Condensate
2014

1. 1/16/2014 1 load – 5040 gallons
2. 1/30/2014 1 load – 5040 gallons
3. 2/12/2014 1 load – 5040 gallons

Goleta
Emergency Gas Venting
2014

There were no Emergency Gas venting occurrences in the 12 months of 2014.

EQUIPMENT HISTORY REPORT (7)

Completion Date From: Jan 1, 2014
Completion Date To: Dec 31, 2014
ASSET # VALUES: APCD-H201

MAXIMO Asset ID	Asset Description	Work Order #	WORKTYPE	Completion Date	Work Order Description	Work Order Long Description	Failure Remark	Failure Remark Long Description
GOL-1003-H-201A	LINE 1003 WATER HEATER H-201A	5510110	PM+	4/23/14	ANNUAL LINE 1003 HEATER TUNE -UP		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
GOL-1003-H-201B	LINE 1003 WATER HEATER H-201B	5510110	PM+	4/23/14	ANNUAL LINE 1003 HEATER TUNE -UP		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
GOL-FE-4E478-1	FUEL METER FOR LINE 1003 HEATER H-201A (FE478-1)	5439197	PM+	2/20/14	SEMI-ANNUAL LINE 1003 HEATER FUEL METER INSPECTION		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
GOL-FE-4E478-1	FUEL METER FOR LINE 1003 HEATER H-201A (FE478-1)	5584678	PM+	8/12/14	SEMI-ANNUAL LINE 1003 HEATER FUEL METER INSPECTION		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
GOL-FE-4E478-2	FUEL METER FOR LINE 1003 HEATER H-201B (FE478-2)	5439197	PM+	2/20/14	SEMI-ANNUAL LINE 1003 HEATER FUEL METER INSPECTION		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	
GOL-FE-4E478-2	FUEL METER FOR LINE 1003 HEATER H-201B (FE478-2)	5584678	PM+	8/12/14	SEMI-ANNUAL LINE 1003 HEATER FUEL METER INSPECTION		INSPECTION COMPLETE, NO SUBSTANDARD CONDITIONS	

2014

Sulfa-Treat or KMN Media Bed Changes
And Odorant Carbon Canister Changes

January 9, 2014 – Changed KMN Canister
2,000 lbs of Potassium Permanganate Zeolite

January 22, 2014 – Changed KMN Canister
2,000 lbs of Potassium Permanganate Zeolite

February 3, 2014 Changed KMN and SulfaTreat Canisters
2,000 lbs of Potassium Permanganate Zeolite
4,000 lbs of SulfaTreat CHP

February 12,, 2014 - Changed KMN Canister
2,000 lbs of Potassium Permanganate Zeolite

November 20, 2014 – Changed KMN Canister
2,000 lbs of Potassium Permanganate Zeolite

November 24, 2014 - Changed SulfaTreat canister
4,000 lbs of SulfaTreat

October 28, 2010 – Odorant Carbon Canister
55 Gal. Drum VoCarb 48C
(Start Date 10/28/2010 – no media replacements in 2014)

Oilfield Environmental and Compliance, INC.

Dennis Lowrey
Southern California Gas Company
PO BOX 818
Goleta, CA 93116

07 March 2014

RE: La Goleta Storage Work Order: 1401080

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 06-Mar-14 13:30 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Meredith Sprister

Project Manager

307 Roemer Way, Suite 300, Santa Maria, CA 93454 www.oecusa.com TEL: (805) 922-4772 FAX: (805) 925-3376

Oilfield Environmental and Compliance, INC.

Dennis Lowrey
Southern California Gas Company
PO BOX 818
Goleta, CA 93116

12 February 2014

RE: La Goleta Storage Work Order: 1400558

Dear Client:

Enclosed is an analytical report for the above referenced project. The samples included in this report were received on 05-Feb-14 15:30 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Meredith Sprister

Project Manager

307 Roemer Way, Suite 300, Santa Maria, CA 93454 www.oecusa.com TEL: (805) 922-4772 FAX: (805) 925-3376

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Reservoir Quality Gas Miller #8	1400558-01	Air	05-Feb-14 09:51	05-Feb-14 15:30
Pipeline Quality Gas Line 247	1400558-02	Air	05-Feb-14 09:44	05-Feb-14 15:30
Goleta Plant Fuel OM 3464	1400558-03	Air	05-Feb-14 08:19	05-Feb-14 15:30
Tank Farm Flare Inlet	1400558-04	Air	05-Feb-14 09:15	05-Feb-14 15:30
Microturbine Fuel Gas	1400558-05	Air	05-Feb-14 08:47	05-Feb-14 15:30

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Reservoir Quality Gas Miller #8

1400558-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
otal Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Pipeline Quality Gas Line 247

1400558-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Goleta Plant Fuel OM 3464

1400558-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Tank Farm Flare Inlet

1400558-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oilfield Environmental and Compliance									
Sulfur Compounds									
Hydrogen Sulfide (H2S)	**0.77**	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	**0.20**	0.050	"	"	"	"	"	"	
Carbon disulfide	**0.21**	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	**4.4**	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	**2.3**	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	**3.3**	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	**11**	0.050	"	"	"	"	"	"	

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Microturbine Fuel Gas

1400558-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sulfur Compounds									
Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Sulfur Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A402100 - None-gases										
Blank (A402100-BLK1)				Prepared & Analyzed: 05-Feb-14						
Hydrogen Sulfide (H2S)	ND	0.050	ppmv							
Carbonyl Sulfide	ND	0 050	"							
Carbon disulfide	ND	0 050	"							
Sulfur dioxide	ND	0.050	"							
Methyl Mercaptan	ND	0 050	"							
Ethyl Mercaptan	ND	0 050	"							
Dimethyl Sulfide	ND	0.050	"							
Total Unknown Sulfur Compounds as H2S	ND	0 050	"							
Total Reduced Sulfur as S	ND	0 050	"							
LCS (A402100-BS1)				Prepared & Analyzed: 05-Feb-14						
Hydrogen Sulfide (H2S)	10	0.050	ppmv	9.98		101	70-130			
Carbonyl Sulfide	10	0 050	"	10.0		100	70-130			
Carbon disulfide	10	0 050	"	10.4		99 2	70-130			
Methyl Mercaptan	9 9	0 050	"	10.0		98 3	70-130			
Ethyl Mercaptan	10	0 050	"	10 2		98 6	70-130			
Dimethyl Sulfide	10	0 050	"	10 2		99 0	70-130			

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SOUTHERN CALIFORNIA GAS COMPANY
CHAIN OF CUSTODY RECORD

Special Instructions:
Lab _____ please furnish
1. signed analysis report
2. QA/QC report
3. Chain of custody

Project No: TS2014-C015
Requestor: Dennis Lowrey
Sampling Site: La Goleta Storage

Sample ID & Location	Date	Time	Collected by	Container type	Sample type	Preservative	Analysis Required
Reservoir Quality Gas Miller # 8	2/5/2014	9:51AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 1400558-1A
Pipeline Quality Gas Line 247	2/5/2014	9:44AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 2A
Goleta Plant Fuel OM 3464	2/5/2014	8:19AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 3A
Tank Farm Flare Inlet	2/5/2014	9:15AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 4A
roturbine Fuel Gas	2/5/2014	8:47AM	D. Lowrey	Tedlar Bag	Gas	None	Total Sulfur, EPA Method 15A and 16A 5A

Relinquished by (signature)	Company & Department	Date	Time	Received by (signature)	Company & Department
	SoCalGas/Goleta Storage	2/5/2014	1344		OEC
	OEC	2/5/14	1530		OEC- RECEIVING

e-mail results to dalowrey@semprautilities.com
Dennis Lowrey 805.681.8072

OEC SAMPLE RECEIPT

Rev. 01/15/10

CLIENT: So. Cal Gas OEC ID #: 1400558 Temp: — °C

Acceptable Range: 0°C to 6°C

COC RECEIVED
DATE/TIME: 2-5-14 @ 1530

RECEIPT LOGIN
DATE/TIME: 2-5-14 @ 1555

REFRIGERATOR(s): GR

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:		Yes	No	N/A	(*) PROBLEM CHAIN FORM NEEDED
☒ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐	Custody Seals (circle) Present / Absent
☐ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐	Samples / Coolers
☐ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐	Intact / Broken*
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☒	☐*	☐	Method of Shipment & Tracking #(if applicable)
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☐	☒	
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☐	☐	☒	(**) OEC Preservative ID:
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒	Dissolved Metals Filtration (Date/Init/Preserve ID)
	Tedlar Bags free of condensation	☒	☐*	☐	

CONTAINERS, COC CHANGES AND/OR CORRECTIONS — **CHANGES AUTHORIZED BY:**

OEC ID	Client ID ***If blank, refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
1-5A		1-TEDLAR EA	—		A		

RECEIPT LOGIN BY: EH RECEIPT REVIEWED BY: [signature]

Oilfield Environmental and Compliance, INC.

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	07-Mar-14 12:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Dehy Flare Inlet	1401080-01	Air	06-Mar-14 08:31	06-Mar-14 13:30

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	07-Mar-14 12:56

Dehy Flare Inlet
1401080-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Sulfur Compounds

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A403139	06-Mar-14	06-Mar-14	EPA 15 & 16	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	**17**	0.050	"	"	"	"	"	"	
Dimethyl Disulfide	**13**	0.10	"	"	"	"	"	"	
Total Reduced Sulfur as S	**30**	0.050	"	"	"	"	"	"	

Oilfield Environmental and Compliance, INC.

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	07-Mar-14 12:56

Sulfur Compounds - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A403139 - None-gases										
Blank (A403139-BLK1)				Prepared & Analyzed: 06-Mar-14						
Hydrogen Sulfide (H2S)	ND	0 050	ppmv							
Methyl Mercaptan	ND	0 050	"							
Dimethyl Sulfide	ND	0 050	"							
Dimethyl Disulfide	ND	0 10	"							
Total Reduced Sulfur as S	ND	0 050	"							
LCS (A403139-BS1)				Prepared & Analyzed: 06-Mar-14						
Hydrogen Sulfide (H2S)	9.7	0 050	ppmv	9 98		97.7	70-130			
Methyl Mercaptan	9.6	0 050	"	10 0		96 2	70-130			
Dimethyl Sulfide	9 7	0.050	"	10 2		95 5	70-130			

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	07-Mar-14 12:56

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SOUTHERN CALIFORNIA GAS COMPANY
SAMPLE CHAIN OF CUSTODY RECORD

Special Instructions:
Lab _____ please furnish
1. signed analysis report
2. QA/QC report
3. chain of custody

Project No: TS2014-C015
Requestor: Dennis Lowrey
Sampling Site: La Goleta Storage

Sample ID & Location	Date	Time	Collected by	Container type	Sample type	Preservative	Analysis Required
Dehy Flare Inlet 1401080-1A	3/6/2014	8:31AM	D. Lowrey	Tedlar Bag	Gas	None	**Total Sulfur, EPA method 16 ONLY**

Relinquished by (signature)	Company & Department	Date	Time	Received by (signature)	Company & Department
	SoCalGas/Goleta Storage	3/6/14	1043	L. Crane	OEC - Council
L. Crane	OEC/SR	3-6-14	1330	MRS	OEC - RECEIVING

The Dehy Flare Inlet results require an ASAP result of the analysis. Please send to dalowrey@semprautilities.com Phone 805.681.8072 and Ed Wiegman @ EWiegman@semprautilities.com

OEC SAMPLE RECEIPT

Rev 01/15/10

CLIENT: So. Cal Gas Co. OEC ID #: 1401080 Temp: — °C

Acceptable Range: 0°C to 6°C

COC RECEIVED DATE/TIME: 3-6-14 @ 1330

RECEIPT LOGIN DATE/TIME: 3-6-14 @1334

REFRIGERATOR(s): GR

SAMPLE TRANSPORT, RECEIPT, CONDITION & PRESERVATION:		Yes	No	N/A	(*) PROBLEM CHAIN FORM NEEDED
☒ OEC Courier/Sampler	COC document(s) received with samples	☒	☐*	☐	Custody Seals (circle): Present / Absent
☐ Delivery(Other than OEC Courier)	Correct containers for analysis requested	☒	☐*	☐	Samples / Coolers
☐ Samples Received on Ice	Container(s) intact and in good condition	☒	☐*	☐	Intact / Broken*
☐ Samples Received Outside Temp. Range*	Container label(s) consistent with COC	☒	☐*	☐	Method of Shipment & Tracking #(if applicable).
☐ Samples Direct from field (Outside Temp)	OEC preservative added (**note std ID)	☐**	☐	☒	
☐ After-Hours Outside Drop-off [Brought Inside]	Proper preservation on sample label(s)	☐	☐	☒	(**) OEC Preservative ID:
(Initials/Date/Time):	VOA containers free of headspace	☐	☐*	☒	Dissolved Metals Filtration. (Date/Init/Preserve ID)
	Tedlar Bags free of condensation	☒	☐*	☐	

CONTAINERS, COC CHANGES AND/OR CORRECTIONS — **CHANGES AUTHORIZED BY:**

OEC ID	Client ID ***If blank refer to CoC	Container Description	Preservative	ResCl /pH	Matrix	Date/Time Sampled ***	Comments / Remarks / Condition Notes, Etc.
1-A		1-Tedlar Bag	—	—	A		

RECEIPT LOGIN BY: DC

RECEIPT REVIEWED BY: Lee

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD 1
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2563	1012.3	911.5	0.5539	14.1585	77.1257	893.5	804.5	0.4889
ETHANE	5.0283	1773.8	1622.8	1.0382	1.5120	8.2361	89.2	81.6	0.0522
PROPANE	0.9875	2521.9	2320.4	1.5225	0.4354	2.3720	24.9	22.9	0.0150
iso-BUTANE	0.2988	3259.4	3006.9	2.0068	0.1737	0.9460	9.7	9.0	0.0060
n-BUTANE	0.2956	3269.8	3017.4	2.0068	0.1718	0.9359	9.7	8.9	0.0059
neo-PENTANE	0.0000	4010.2	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0991	4010.2	3707.6	2.4911	0.0715	0.3895	4.0	3.7	0.0025
n-PENTANE	0.0999	4018.0	3715.6	2.4911	0.0721	0.3926	4.0	3.7	0.0025
C6 plus	0.0685	5194.5	4812.8	3.2521	0.0645	0.3515	3.6	3.3	0.0022
CARBON DIOXIDE	2.0075	0.0	0	0.9672	0.8835	4.8126	0.0	0.0	0.0194
OXYGEN	0.3506	0.0	0	1.5195	0.1122	0.6111	0.0	0.0	0.0053
NITROGEN	2.5079	0.0	0	1.1048	0.7025	3.8270	0.0	0.0	0.0277
Totals ----->	100.000				18.4	100.0	1038.5	937.6	0.6277

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00634
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99769

Total Mol Wt. ROC C3 to C6+ = 0.5536 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1040.9 BTU/real cubic foot
LHV	939.7 BTU/real cubic foot
Specific Gravity	0.6291

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD 2
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt.	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2564	1012.3	911.5	0.5539	14.1585	77.1212	893.5	804.5	0.4889
ETHANE	5.0300	1773.8	1622.8	1.0382	1.5125	8.2384	89.2	81.6	0.0522
PROPANE	0.9900	2521.9	2320.4	1.5225	0.4365	2.3779	25.0	23.0	0.0151
iso-BUTANE	0.2990	3259.4	3006.9	2.0068	0.1738	0.9466	9.7	9.0	0.0060
n-BUTANE	0.2960	3269.8	3017.4	2.0068	0.1720	0.9371	9.7	8.9	0.0059
neo-PENTANE	0.0000	4010.2	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0990	4010.2	3707.6	2.4911	0.0714	0.3891	4.0	3.7	0.0025
n-PENTANE	0.1000	4018.0	3715.6	2.4911	0.0721	0.3930	4.0	3.7	0.0025
C6 plus	0.0686	5194.5	4812.8	3.2521	0.0646	0.3520	3.6	3.3	0.0022
CARBON DIOXIDE	2.0100	0.0	0	0.9672	0.8846	4.8183	0.0	0.0	0.0194
OXYGEN	0.3510	0.0	0	1.5195	0.1123	0.6118	0.0	0.0	0.0053
NITROGEN	2.5000	0.0	0	1.1048	0.7003	3.8147	0.0	0.0	0.0276
Totals ----->	100.000				18.4	100.0	1038.6	937.7	0.6277

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00634
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99769

Total Mol Wt. ROC C3 to C6+= 0.5540 lb/lb-mol

Mol Wt. % ROC C3 to C6+= 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1041.0 BTU/real cubic foot
LHV	939.8 BTU/real cubic foot
Specific Gravity	0.6291

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Reservoir Quality Gas Miller 8
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt.	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.0310	1012.3	911.5	0.5539	14.8943	85.2816	941.8	848.0	0.5153
ETHANE	3.5672	1773.8	1622.8	1.0382	1.0727	6.1418	63.3	57.9	0.0370
PROPANE	1.216	2521.9	2320.4	1.5225	0.5361	3.0698	30.7	28.2	0.0185
iso-BUTANE	0.1305	3259.4	3006.9	2.0068	0.0758	0.4343	4.3	3.9	0.0026
n-BUTANE	0.2284	3269.8	3017.4	2.0068	0.1327	0.7601	7.5	6.9	0.0046
iso-PENTANE	0.0421	4010.2	3707.6	2.4911	0.0304	0.1739	1.7	1.6	0.0010
n-PENTANE	0.0322	4018.0	3715.6	2.4911	0.0232	0.1330	1.3	1.2	0.0008
C6 plus	0.0445	5194.5	4812.8	3.2521	0.0419	0.2400	2.3	2.1	0.0014
CARBON DIOXIDE	1.1007	0.0	0	1.5195	0.4843	2.7731	0.0	0.0	0.0167
OXYGEN	0.0807	0.0	0	1.1048	0.0258	0.1479	0.0	0.0	0.0009
NITROGEN	0.5268	0.0	0	0.9672	0.1475	0.8446	0.0	0.0	0.0051
Totals ----->	100.000				17.5	100.0	1052.7	949.8	0.6041

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00610
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99771

Total Mol Wt. ROC C3 to C6+ = 0.8402 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.81%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0022 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1055.2 BTU/real cubic foot
LHV	952.0 BTU/real cubic foot
Specific Gravity	0.6054

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Pipeline Quality Gas L-247
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.2489	1012.3	911.5	0.5539	14.9291	85.7098	944.0	850.0	0.5165
ETHANE	3.4541	1773.8	1622.8	1.0382	1.0386	5.9630	61.3	56.1	0.0359
PROPANE	1.1746	2521.9	2320.4	1.5225	0.5179	2.9732	29.6	27.3	0.0179
iso-BUTANE	0.1260	3259.4	3006.9	2.0068	0.0732	0.4204	4.1	3.8	0.0025
n-BUTANE	0.2191	3269.8	3017.4	2.0068	0.1273	0.7311	7.2	6.6	0.0044
iso-PENTANE	0.0405	4010.2	3707.6	2.4911	0.0292	0.1678	1.6	1.5	0.0010
n-PENTANE	0.0311	4018.0	3715.6	2.4911	0.0224	0.1288	1.2	1.2	0.0008
C6 plus	0.0470	5194.5	4812.8	3.2521	0.0443	0.2541	2.4	2.3	0.0015
CARBON DIOXIDE	1.0520	0.0	0	1.5195	0.4629	2.6574	0.0	0.0	0.0160
OXYGEN	0.0829	0.0	0	1.1048	0.0265	0.1523	0.0	0.0	0.0009
NITROGEN	0.5238	0.0	0	0.9672	0.1467	0.8420	0.0	0.0	0.0051
Totals ----->	100.000				17.4	100.0	1051.5	948.6	0.6025

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00608
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99772

Total Mol Wt. ROC C3 to C6+ = 0.8144 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.68%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0022 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1053.9 BTU/real cubic foot
LHV	950.8 BTU/real cubic foot
Specific Gravity	0.6038

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Goleta plant fuel OM 3464
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.2314	1012.3	911.5	0.5539	14.9263	85.6779	943.8	849.8	0.5164
ETHANE	3.4601	1773.8	1622.8	1.0382	1.0405	5.9722	61.4	56.1	0.0359
PROPANE	1.1674	2521.9	2320.4	1.5225	0.5147	2.9544	29.4	27.1	0.0178
iso-BUTANE	0.1260	3259.4	3006.9	2.0068	0.0732	0.4204	4.1	3.8	0.0025
n-BUTANE	0.2195	3269.8	3017.4	2.0068	0.1276	0.7323	7.2	6.6	0.0044
iso-PENTANE	0.0406	4010.2	3707.6	2.4911	0.0293	0.1681	1.6	1.5	0.0010
n-PENTANE	0.0312	4018.0	3715.6	2.4911	0.0225	0.1292	1.3	1.2	0.0008
C6 plus	0.0475	5194.5	4812.8	3.2521	0.0447	0.2568	2.5	2.3	0.0015
CARBON DIOXIDE	1.0616	0.0	0	1.5195	0.4671	2.6812	0.0	0.0	0.0161
OXYGEN	0.0850	0.0	0	1.1048	0.0272	0.1561	0.0	0.0	0.0009
NITROGEN	0.5297	0.0	0	0.9672	0.1483	0.8513	0.0	0.0	0.0051
Totals ----->	100.000				17.4	100.0	1051.3	948.4	0.6026

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.7
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00012
Z = 1.00369 - A + B	0.99772

Total Mol Wt. ROC C3 to C6+ = 0.8121 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1053.7 BTU/real cubic foot
LHV	950.6 BTU/real cubic foot
Specific Gravity	0.6039

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Micro Turbine Fuel Gas
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.1154	1012.3	911.5	0.5539	14.9078	85.5040	942.6	848.7	0.5158
ETHANE	3.4524	1773.8	1622.8	1.0382	1.0381	5.9543	61.2	56.0	0.0358
PROPANE	1.1714	2521.9	2320.4	1.5225	0.5165	2.9622	29.5	27.2	0.0178
iso-BUTANE	0.1259	3259.4	3006.9	2.0068	0.0732	0.4197	4.1	3.8	0.0025
n-BUTANE	0.2192	3269.8	3017.4	2.0068	0.1274	0.7307	7.2	6.6	0.0044
iso-PENTANE	0.0407	4010.2	3707.6	2.4911	0.0294	0.1684	1.6	1.5	0.0010
n-PENTANE	0.0314	4018.0	3715.6	2.4911	0.0227	0.1299	1.3	1.2	0.0008
C6 plus	0.0459	5194.5	4812.8	3.2521	0.0432	0.2479	2.4	2.2	0.0015
CARBON DIOXIDE	1.0560	0.0	0	1.5195	0.4646	2.6650	0.0	0.0	0.0160
OXYGEN	0.1153	0.0	0	1.1048	0.0369	0.2116	0.0	0.0	0.0013
NITROGEN	0.6266	0.0	0	0.9672	0.1754	1.0063	0.0	0.0	0.0061
Totals ----->	100.000				17.4	100.0	1050.0	947.2	0.6030

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.8
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00013
Z = 1.00369 - A + B	0.99773

Total Mol Wt. ROC C3 to C6+ = 0.8123 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1052.4 BTU/real cubic foot
LHV	949.4 BTU/real cubic foot
Specific Gravity	0.6044

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Dehy Flare Inlet
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	66.9557	1012.3	911.5	0.5539	10.7196	42.1258	677.8	610.3	0.3709
ETHANE	8.6067	1773.8	1622.8	1.0382	2.5880	10.1704	152.7	139.7	0.0894
PROPANE	5.5264	2521.9	2320.4	1.5225	2.4366	9.5753	139.4	128.2	0.0841
iso-BUTANE	0.8079	3259.4	3006.9	2.0068	0.4696	1.8452	26.3	24.3	0.0162
n-BUTANE	2.0264	3269.8	3017.4	2.0068	1.1777	4.6283	66.3	61.1	0.0407
iso-PENTANE	0.5030	4010.2	3707.6	2.4911	0.3629	1.4262	20.2	18.6	0.0125
n-PENTANE	0.4486	4018.0	3715.6	2.4911	0.3237	1.2719	18.0	16.7	0.0112
C6 plus	1.4882	5194.5	4812.8	3.2521	1.4016	5.5081	77.3	71.6	0.0484
CARBON DIOXIDE	13.4107	0.0	0	1.5195	5.9007	23.1885	0.0	0.0	0.2038
OXYGEN	0.0711	0.0	0	1.1048	0.0228	0.0894	0.0	0.0	0.0008
NITROGEN	0.1553	0.0	0	0.9672	0.0435	0.1709	0.0	0.0	0.0015
Totals ----->	100.000				25.4	100.0	1177.9	1070.6	0.8794

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	13.6
A = (Total SG)(0.0101)	0.00888
B = (Total Non-HC)(.0070)	0.00095
Z = 1.00369 - A + B	0.99576

Total Mol Wt. ROC C3 to C6+ = 6.1721 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 24.25%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0163 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1183.0 BTU/real cubic foot
LHV	1075.1 BTU/real cubic foot
Specific Gravity	0.8831

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Tank Farm Flare
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt.	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	72.7804	1012.3	911.5	0.5539	11.6521	51.9036	736.8	663.4	0.4031
ETHANE	6.9004	1773.8	1622.8	1.0382	2.0750	9.2427	122.4	112.0	0.0716
PROPANE	5.2386	2521.9	2320.4	1.5225	2.3097	10.2884	132.1	121.6	0.0798
iso-BUTANE	0.7406	3259.4	3006.9	2.0068	0.4304	1.9173	24.1	22.3	0.0149
n-BUTANE	1.4706	3269.8	3017.4	2.0068	0.8547	3.8073	48.1	44.4	0.0295
iso-PENTANE	0.2896	4010.2	3707.6	2.4911	0.2089	0.9307	11.6	10.7	0.0072
n-PENTANE	0.2349	4018.0	3715.6	2.4911	0.1695	0.7549	9.4	8.7	0.0059
C6 plus	0.6763	5194.5	4812.8	3.2521	0.6370	2.8373	35.1	32.5	0.0220
CARBON DIOXIDE	4.9151	0.0	0	1.5195	2.1626	9.6333	0.0	0.0	0.0747
OXYGEN	1.4653	0.0	0	1.1048	0.4689	2.0887	0.0	0.0	0.0162
NITROGEN	5.2883	0.0	0	0.9672	1.4807	6.5958	0.0	0.0	0.0511
Totals ----->	100.000				22.4	100.0	1119.7	1015.6	0.7760

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	11.7
A = (Total SG)(0.0101)	0.00784
B = (Total Non-HC)(.0070)	0.00082
Z = 1.00369 - A + B	0.99667

Total Mol Wt. ROC C3 to C6+ = 4.6102 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 20.54%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1123.4 BTU/real cubic foot
LHV	1019.0 BTU/real cubic foot
Specific Gravity	0.7786

Total lbs of ROC C3 to C6+ per ft^3 = 0.0122 lb/cf

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	MTG STD FINAL
TEST DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	88.2343	1012.3	911.5	0.5539	14.1550	77.0818	893.2	804.3	0.4887
ETHANE	5.0374	1773.8	1622.8	1.0382	1.5147	8.2484	89.4	81.7	0.0523
PROPANE	0.9857	2521.9	2320.4	1.5225	0.4347	2.3669	24.9	22.9	0.0150
iso-BUTANE	0.2989	3259.4	3006.9	2.0068	0.1737	0.9460	9.7	9.0	0.0060
n-BUTANE	0.2957	3269.8	3017.4	2.0068	0.1719	0.9359	9.7	8.9	0.0059
neo-PENTANE	0.0000	3993.9	3691.4	2.4911	0.0000	0.0000	0.0	0.0	0.0000
iso-PENTANE	0.0989	4010.2	3707.6	2.4911	0.0714	0.3886	4.0	3.7	0.0025
n-PENTANE	0.1000	4018.0	3715.6	2.4911	0.0721	0.3929	4.0	3.7	0.0025
C6 plus	0.0688	5194.5	4812.8	3.2521	0.0648	0.3529	3.6	3.3	0.0022
CARBON DIOXIDE	2.0261	0.0	0	1.5195	0.8917	4.8557	0.0	0.0	0.0308
OXYGEN	0.3543	0.0	0	1.1048	0.1134	0.6174	0.0	0.0	0.0039
NITROGEN	2.4999	0.0	0	0.9672	0.7003	3.8136	0.0	0.0	0.0242
Totals ----->	100.000				18.4	100.0	1038.4	937.5	0.6340

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	4.9
A = (Total SG)(0.0101)	0.00640
B = (Total Non-HC)(.0070)	0.00034
Z = 1.00369 - A + B	0.99763

Total Mol Wt. ROC C3 to C6+ = 0.5539 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 3.02%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0015 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1040.9 BTU/real cubic foot
LHV	939.7 BTU/real cubic foot
Specific Gravity	0.6355

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09

(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09

(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996

(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

SOUTHERN CALIFORNIA GAS COMPANY

CHAIN OF CUSTODY RECORD

Special Instructions:
Lab _____ please furnish
1. signed analysis report
2. QA/QC report
3. chain of custody

Project No: TS2014-C015
Requestor: Dennis Lowrey
Sampling Site: La Goleta Storage

Sample ID & Location	Date	Time	Collected by	Container type	Sample type	Preservative	Analysis Required
Reservoir Quality Gas Miller 8	2/5/2014	9:55AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Pipeline Quality Gas L-247	2/5/2014	9:35AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Goleta plant fuel OM 3464	2/5/2014	8:17AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Micro-Turbine Fuel Gas	2/5/2014	8:41AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Dehy Flare Inlet	2/5/2014	8:05AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98
Tank Farm Flare	2/5/2014	9:05AM	Dennis Lowrey	Tedlar Bag	Gas	None	BTU & ROC using ASTM 1945-03 & 3588-98

Relinquished by (signature)	Company & Department	Date	Time	Received by (signature)	Company & Department
	SoCalGas/Goleta Storage	~~2/5/2014~~ 2/7/14	7:30 AM	Johnita Verdugo EAC Johnita Verdugo	

SOUTHERN CALIFORNIA GAS COMPANY
GOLETA COMPRESSOR STATION EMISSION OFFSET INFORMATION FOR 2014

Summary CAM Data - fulfillment of 9.C.15(b)(i) and (iii)

Month	MT1 Running Days	MT1 Running Hours	Sum of Total Hours MT2	MT2 Running Hours	MT3 Running Days	MT3 Running Hours	MT4 Running Days	MT4 Running Hours
Jan	31	734	57	6	26	326	30	696
Feb	28	672	37	2	25	494	24	515
Mar	29	644	743	31	12	129	10	139
Apr	22	409	522	24	24	439	21	393
May	27	495	515	27	25	502	27	526
Jun	28	501	494	28	26	502	27	497
Jul	28	507	507	28	27	495	27	515
Aug	27	536	507	26	27	518	27	511
Sep	28	591	623	29	29	613	15	301
Oct	23	448	427	24	23	429	31	728
Nov	20	382	465	24	25	479	23	464
Dec	24	466	454	25	27	456	20	393
Grand Total	**315**	**6385**	**5351**	**274**	**296**	**5382**	**282**	**5678**

	Total Fuel Gas Use (Micro Turbines)		Total Fuel Gas Use Quarterly Totals	
	MSCF	MMBTU*	MSCF	MMBTU*
Jan	890.49	936.79		
Feb	866.30	911.35	2420	2546
Mar	663.54	698.05		
Apr	691.19	727.13		
May	795.35	836.71	2339	2460
Jun	852.22	896.54		
Jul	883.59	929.53		
Aug	917.66	965.38	2693	2833
Sep	891.48	937.84		
Oct	844.92	888.86		
Nov	713.28	750.37	2300	2419
Dec	741.30	779.85		
Annual Total			9751	10258

*Conversion from MSCF to BTU based on 2/7/14 sample result of:	1052 (BTU/SCF)

ENGINEERING ANALYSIS CENTER

BTU Content of Natural Gas by Gas Composition
(Southern California Gas Company)

PROJECT NO:	TS2014-C013
REPORTED BY:	Vincent Arias
REPORT DATE:	2/11/14
TEST LOCATION:	Micro Turbine Fuel Gas
SAMPLE DATE:	2/7/14

Component	Mole % Xi	(1) HHV	(2) LHV	(3) SG	Mole % * Mol. Wt.	ROC Wt %	Xi*HHV Btu/SCF	Xi*LHV Btu/SCF	Xi*SG
METHANE	93.1154	1012.3	911.5	0.5539	14.9078	85.5040	942.6	848.7	0.5158
ETHANE	3.4524	1773.8	1622.8	1.0382	1.0381	5.9543	61.2	56.0	0.0358
PROPANE	1.1714	2521.9	2320.4	1.5225	0.5165	2.9622	29.5	27.2	0.0178
iso-BUTANE	0.1259	3259.4	3006.9	2.0068	0.0732	0.4197	4.1	3.8	0.0025
n-BUTANE	0.2192	3269.8	3017.4	2.0068	0.1274	0.7307	7.2	6.6	0.0044
iso-PENTANE	0.0407	4010.2	3707.6	2.4911	0.0294	0.1684	1.6	1.5	0.0010
n-PENTANE	0.0314	4018.0	3715.6	2.4911	0.0227	0.1299	1.3	1.2	0.0008
C6 plus	0.0459	5194.5	4812.8	3.2521	0.0432	0.2479	2.4	2.2	0.0015
CARBON DIOXIDE	1.0560	0.0	0	1.5195	0.4646	2.6650	0.0	0.0	0.0160
OXYGEN	0.1153	0.0	0	1.1048	0.0369	0.2116	0.0	0.0	0.0013
NITROGEN	0.6266	0.0	0	0.9672	0.1754	1.0063	0.0	0.0	0.0061
Totals ----->	100.000				17.4	100.0	1050.0	947.2	0.6030

(4) Compressiblity Factor (Z) for mixed gases

Total Non-Hydrocarbons	1.8
A = (Total SG)(0.0101)	0.00609
B = (Total Non-HC)(.0070)	0.00013
Z = 1.00369 - A + B	0.99773

Total Mol Wt. ROC C3 to C6+ = 0.8123 lb/lb-mol

Mol Wt. % ROC C3 to C6+ = 4.66%

At Standard Temp & Press, 1 lb-mol = 378.4 cf

Total lbs of ROC C3 to C6+ per ft^3 = 0.0021 lb/cf

(5) Adjusted Values (14.73 psia, 60F, Gross, Dry, real volume basis)

HHV	1052.4 BTU/real cubic foot
LHV	949.4 BTU/real cubic foot
Specific Gravity	0.6044

FOOTNOTES

(1) Higher Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(2) Lower Heating Value per ideal cubic foot @ 14.73 psia
Gas Processors Association (GPA) Standard 2145-09
(3) Specific Gravity
Gas Processors Association (GPA) Standard 2145-09
(4) Empirical formula for compressibility factor
American Gas Association's Transmission Report No. 5.-1996
(5) Values are adjusted to reflect real volumes rather than ideal
volumes by dividing by the compressibility factor.
ex; (BTU/Ideal Gas Volume)/Z where Z=(Real Gas Volume/Ideal Gas Volume)

Southern California Gas Company	Project: La Goleta Storage	
PO BOX 818	Project Number: TS2014-C015	**Reported:**
Goleta CA, 93116	Project Manager: Dennis Lowrey	12-Feb-14 15:54

Microturbine Fuel Gas

1400558-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Sulfur Compounds

Hydrogen Sulfide (H2S)	ND	0.050	ppmv	1	A402100	05-Feb-14	05-Feb-14	EPA 15 & 16	
Carbonyl Sulfide	ND	0.050	"	"	"	"	"	"	
Carbon disulfide	ND	0.050	"	"	"	"	"	"	
Sulfur dioxide	ND	0.050	"	"	"	"	"	"	
Methyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Ethyl Mercaptan	ND	0.050	"	"	"	"	"	"	
Dimethyl Sulfide	ND	0.050	"	"	"	"	"	"	
Total Unknown Sulfur Compounds as H2S	ND	0.050	"	"	"	"	"	"	
Total Reduced Sulfur as S	ND	0.050	"	"	"	"	"	"	

Goleta
2014
Fugitive Hydrocarbon Component Emissions

No changes in the component count in January 1, 2014 through December 31, 2014.

McCORMIX Corp.

Jobber, Petroleum Products
P.O. BOX 848-22 N. CALLE CESAR CHAVEZ
SANTA BARBARA, CA 93102
(805) 963-9366
FAX (805) 963-2268
FED. I.D. NO. 95-2664824
S.G. AR78-004829

☐ CASH		CASH	
		CHECKS	
☐ CHARGE			
		TOTAL	

DELIVERY TICKET — NUMBER 560140

ACCOUNT NUMBER 8488 — DATE 07-~~23~~-13 24

SOLD TO: 8488
SO. CAL GAS COMPANY
ATTN: ROBERT HIETY
P. O. BOX 30777
LOS ANGELES, CA 90030-0777

SHIP TO:
SO. CAL GAS COMPANY
1171 MOORE RANCH ROAD
GOLETA

PURCHASE ORDER NUMBER	SALESMAN	TERMS	DUE DATE
TULTE 681-0098	HOUSE	NET 15 DAYS	08-07-13

DELIVERY DATE	DRIVER	TRUCK NUMBER	TERMINAL	REMIT TO:
07-~~23~~-13 24	Victor	80	325	P.O. BOX 848 • SANTA BARBARA, CA 93102

NO. OF PKG'S	BULK OR PKG. SIZE	PRODUCT DELIVERED	ORDERED	DELIVERED	TAXES FED.	TAXES STATE	TAXES SALES	PRICE	AMOUNT
		DIESEL FUEL - COMBUSTIBLE LIQUID NA		1993					
	BULK	CLEAR DIESEL FUEL - BOBTAIL	480		T	T	T	0.34929	
		FED. EXCISE TAX DIESEL						0.24300	
		CALIF. DIESEL EXCISE TAX						0.10000	
		FEDERAL OIL SPILL RECOVERY FE						0.00190	
		CALIF. OIL SPILL TAX						0.00000	
		FEDERAL GAS/DSL TAX LOW SULFU						0.00100	
		AB 32 DIESEL						0.00339	
	BULK	ENVIRONMENTAL COMPLIANCE FEE	480				T	0.03500	
				490.3 gallons received					
		Fill (2) 120 g Tank							
		(1) 400 g Tank							
		2 Fire Pump Tanks - 140.2 gal. Total							
		1 Diesel Fuel Pump Tank - 350.1 gal. Total							
		490.3 Gallons Received							

***) SALES TAX: 9.9400 - 24.77

PAST DUE AFTER ... If account unpaid within time permitted, customer agrees to pay interest at ... PER ANNUM and attorney's fees if account is referred to an attorney for collection. The undersigned hereby states that he is authorized to bind the principal to the terms hereof. MULTI

This invoice includes federal & state gasoline taxes but does not include federal excise tax on diesel fuel nor state use fuel tax unless shown as a separate item.

SALES TAX

DRUMS DELIVERED		DRUMS RETURNED		DRUMS NET	

ERRORS IN PRICE, EXTENSION AND ADDITION SUBJECT TO CORRECTION. **TOTAL** →

DELIVERED BY (SIGNATURE IN FULL) X [signature]

RECEIVED IN GOOD ORDER X [signature]

OFFICE

PLEASE PAY FROM THIS INVOICE.

Goleta
2014
Equivalent Routine I.C. Engine Replacement

There were no engine replacements from January 1, 2014 through December 31, 2014.

SBCAPCD ..rt 70 Reporting Form-
Summary of Permit Deviations

Source Name	**Southern California Gas Company**
Facility Name	La Goleta Plant
Part 70 Permit number	9584-R4 and ATC 13699 and 14159
Calendar Period (e g , Jan -June 98)	**January - December 2014**
Operating Scenario ID , if applicable	N/A

Deviation information:

a. Permit condition	b Emissions unit(s)	c cause	d time began (date)	d time began (hour)	e time ended (date)	e time ended (hour)	f Deviation Quantification	g correction/ prevention
9 C 1 c iii.B	(District IDs 1199, 1200, 1201, 1202, 1203, 1204, and 1205)	Scehduling oversight	n/a	n/a	n/a	n/a	The second semi-annual monitoring of heating value of the fuel was not undertaken	Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring
9 C 1 c iii C	(District IDs 1199, 1200, 1201, 1202, 1203, 1204, and 1205)	Scehduling oversight	n/a	n/a	n/a	n/a	The second semi-annual monitoring of total sulfur content and H2S was not undertaken	Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring.
9 C.5.c ii	(District IDs 1211 and 1212)	Scehduling oversight	n/a	n/a	n/a	n/a	The second semi-annual monitoring of total sulfur content and H2S was not undertaken	Goleta will implement a routine testing schedule in their work management system to prevent future lapse in monitoring

Goleta
2014
Summary List of Breakdowns and Variances

Breakdowns			
ID Number	Date	Description	Excess Emissions
		NONE	

Variances			
ID Number	Date	Description	Excess Emissions
Case No. - 29-14-N	11/12/2014	On November 12,2014 Hearing Board member Larry Lavagnino approved a 90-Day Variance for the period of November 12, 2014 through February 9, 2015, or the date that the break-in period of the engine is complete, whichever occurs first, and not to exceed 150 hours of engine run-time. Said variance provides relieffrom District Rule 206, Conditions 9.C.1(a), 9.C.1(b)(iv), 9.C.1(b)(v) and 9.C.1(b)(vi)(A) of Part 70 Permit to Operate 9584-R4 and District Rule 333 E.1(a) and allows for continued operation of Petitioner's Main Unit #2 during the post-overhaul break-in period of the engine and compressor.	Estimated excess emissions in pounds: o NOx 2,156 o CO 3,593 o ROC 29 • Excess Hazardous Air Pollutants in pounds: o Benzene 1.4 7 o Acetaldehyde 0.90 o Formaldehyde 19.86 o Methanol 0.73

Goleta
2014
ROC and NOx Emissions from Each Exempt Emissions Unit

Exempt Emission Unit	NOx		ROC	
	Pounds (lb)	Tons per Year (tpy)	Pounds (lb)	Tons per Year (tpy)
Emergency Electrical Generator	10.1	0.01	0.5	0.00
Fugitives: Gas De Minimus valves	0.0	0.00	2362.9	1.18
Fugitives: Gas De Minimus connections	0.0	0.00	3449.1	1.72
Fugitives: Gas De Minimus compressor seals	0.0	0.00	104.0	0.05

Goleta 2014
Annual Emissions Summary

Year 2014	Emissions (Tons Per Year)					
	NOx	ROC	CO	SOx	PM	PM10
#2: Ingersoll-Rand LVG-82: Compressor ICE	0.00	0.00	0.00	0.00	0.00	0.00
#3: Ingersoll-Rand LVG-82: Compressor ICE	0.16	0.00	3.27	0.00	0.11	0.11
#4: Ingersoll-Rand LVG-82: Compressor ICE	0.24	0.00	8.79	0.00	0.12	0.12
#5: Ingersoll-Rand LVG-82: Compressor ICE	0.38	0.00	14.97	0.00	0.14	0.14
#6: Ingersoll-Rand KVG-62: Compressor ICE	0.09	0.00	4.89	0.00	0.13	0.13
#7: Ingersoll-Rand KVG-62: Compressor ICE	0.19	0.00	16.41	0.00	0.15	0.15
#8: Ingersoll-Rand KVG-62: Compressor ICE	0.14	0.00	6.78	0.00	0.14	0.14
#9: Cooper-Bessemer GMV-10C Compressor ICE	2.51	0.97	6.10	0.00	0.68	0.68
#4A: Waukesha VRG220U Air Compressor Engine	0.09	0.00	0.02	0.00	0.00	0.00
#5A: Waukesha VRG220U Air Compressor Engine	0.00	0.00	0.02	0.00	0.00	0.00
Emergency Fire Pump #12A	0.04	0.01	0.01	0.01	0.01	0.01
Emergency Fire Pump #13A	0.04	0.01	0.01	0.01	0.01	0.01
Flare #3: Tank Farm	0.01	0.00	0.01	0.00	0.00	0.00
Flare #2: Dehy Secondary	0.01	0.00	0.01	0.00	0.00	0.00
Flare #1: Dehy Primary	0.04	0.00	0.03	0.00	0.00	0.00
Hot Oil Heater #1	1.50	0.08	1.26	0.00	0.11	0.11
Hot Oil Heater #2	0.94	0.05	0.79	0.00	0.07	0.07
H-201A	0.01	0.00	0.00	0.00	0.00	0.00
H-201B	0.01	0.00	0.00	0.00	0.00	0.00
Flotation Cell Tank #1	0.00	0.00	0.00	0.00	0.00	0.00
Flotation Cell Tank #2	0.00	0.00	0.00	0.00	0.00	0.00
Liquid Hydrocarbon Storage Tank	0.00	0.00	0.00	0.00	0.00	0.00
Loading Station	0.00	0.01	0.00	0.00	0.00	0.00
Fugitives: Pipeline Depressuring - Reservoir/Pipeline	0.00	0.45	0.00	0.00	0.00	0.00
Fugitives: Valves	0.00	19.20	0.00	0.00	0.00	0.00
Fugitives: Connections	0.00	31.44	0.00	0.00	0.00	0.00
Fugitives: Pressure Relief (Uncontrolled)	0.00	14.73	0.00	0.00	0.00	0.00
Fugitives: Compressor Seals	0.00	0.88	0.00	0.00	0.00	0.00
Fugitives: Pump Seals	0.00	0.05	0.00	0.00	0.00	0.00
Solvent Usage	0.00	0.00	0.00	0.00	0.00	0.00
Micro Turbine #1	0.05	0.11	0.64	0.00	0.01	0.01
Micro Turbine #2	0.04	0.09	0.54	0.00	0.01	0.01
Micro Turbine #3	0.05	0.09	0.54	0.00	0.01	0.01
Micro Turbine #4	0.05	0.10	0.57	0.00	0.01	0.01
TOTALS	6.60	68.29	65.67	0.02	1.71	1.71