



air pollution control district  
SANTA BARBARA COUNTY

01/25/2024

John Garnett  
Southern California Gas Company  
PO Box 818  
Goleta, CA 93116-0818

FID: 01734  
Permit: P7R 09584 R8  
SSID: 05019

Re: Part 70 Permit Renewal / Reevaluation Application 09584 R8

Dear John Garnett:

On January 25, 2024, the Santa Barbara County Air Pollution Control District (District) determined that your application for Part 70 Permit Renewal / Reevaluation (PT-70/Reeval) No. 09584 R8 for the La Goleta facility at 1171 More Ranch Road in Goleta was complete. The District will make a decision to either issue or deny a permit for the application within 180 days from the completeness date or 180 days after lead agency approval of the project, whichever time period is longer.

Please include the Facility Identification (FID) and Permit numbers shown above on all correspondence regarding this permit application. If you have any questions, please call me at (805) 614-6787.

Sincerely,

William Sarraf, Supervisor  
Engineering Division

cc: La Goleta 01734 Project File  
Uliana Micovic  
Engr Chron File  
James Menno

\\sbcapcd.org\shares\Groups\ENGR\WP\Oil&Gas\Major Sources\SSID 05019 So Cal Gas - La Goleta\Reevals\PTO 9584-R8\PT-70-Reeval 09584 R8 - ATC Completeness - 1-25-2024



**Uliana Micovic**  
Team Lead, Air, Storage  
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PO Box 818, Goleta, CA 93116  
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Cell: (818) 960-8627

November 28, 2023

Mr. William Sarraf  
Santa Barbara County Air Pollution Control District  
260 N. San Antonio Road, Suite A  
Santa Barbara, CA 93110-1315

**Via email: [permits@sbcapcd.org](mailto:permits@sbcapcd.org)**

**Subject: Permit Renewal Application for La Goleta Facility (FID #1734, SSID #5019)**

Dear Mr. Sarraf,

Title V Permit No. 9584-R7 was issued for the Southern California Gas Company's (SoCalGas) La Goleta facility (FID 01734, SSID #05019) on June 18<sup>th</sup>, 2021. Santa Barbara County Air Pollution Control District Rule 1304 requires that a Title V renewal application be submitted no later than two years and six months after the issuance date.

On behalf of SoCalGas, La Goleta facility, I am hereby submitting the attached permit renewal application package that has been prepared for the facility to comply with Regulation XIII requirements. The package is comprised of the Title V forms and a proposed Title V permit including changes. The application fee of \$491.00 will be submitted by phone using a credit card on the same day of the application submission.

One additional request is to change the zip code in the physical address of the La Goleta facility from 93117 to 93111, specifically on the title page of the current permit and in Section 1.2.1.

SoCalGas is aware of the two additional regulatory changes affecting air quality compliance taking effect during the next 3-year period. These two changes are proposed amendments to the California Air Resources Board Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities (CCR Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4) and the US EPA "Good Neighbor" Plan requirements. We understand that the District will incorporate the new requirements into the renewed Title V permit, as necessary.

Should you have any questions or require additional information, please do not hesitate to contact me at the above contact information.

Sincerely,

A handwritten signature in black ink that reads "Uliana Micovic".

Uliana Micovic  
Team Lead, Air, Storage

Enclosures

CC Ryan Bolton  
Karin Fickerson

**SoCalGas**

**La Goleta Facility**

**1171 More Road  
Goleta, CA 93111**

**November 2023**

**Prepared by:**



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**Title V Operating Permit  
Renewal Application**

# **Title V Operating Permit Renewal Application**

Prepared for:

**SoCalGas  
La Goleta Facility  
1171 More Road  
Goleta, CA 93111**

November 2023



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## List of Acronyms and Abbreviations

AFRC	Air/Fuel Ratio Controller
AOS	Alternative Operating Scenario
ATC	Authority to Construct
bhp	Brake Horsepower
CA	California
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CVR	Compliance Verification Report
District	Santa Barbara County Air Pollution Control District
FID	Facility Identification Number
FPTE	Facility Potential to Emit
HAP	Hazardous Air Pollutant
HC	Hydrocarbons
IC	Internal Combustion
lb	pound(s)
MMscf	Million standard cubic feet
NSCR	Non-Selective Catalytic Reduction
NO <sub>x</sub>	Oxides of Nitrogen
PM <sub>2.5</sub>	Fine Particulate Matter Less Than 2.5 Microns in Size
PM <sub>10</sub>	Respirable Particulate Matter Less Than 10 Microns in Size
PPTE	Permitted Potential to Emit
PTE	Potential to Emit
PTO	Permit to Operate
PUC	[California] Public Utilities Commission
ROC	Reactive Organic Compound
scfm	Standard Cubic Feet per minute
SIC	Standard Industrial Classification
SO <sub>x</sub>	Oxides of Sulfur
SSID	Stationary Source Identification Number
TPY	Tons per Year
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

# Title V Operating Permit Renewal Application

## 1.0 INTRODUCTION

### 1.1 Application Overview

This application is submitted by Southern California Gas Company (SoCalGas) for the Title V permit renewal for its La Goleta Facility, for the permit 9584-R7, issued June 18, 2021.

The facility is subject to Title V permit requirements because it is a major source of oxides of nitrogen (NO<sub>x</sub>), reactive organic compounds (ROCs), and carbon monoxide (CO).

This application is submitted in accordance with the requirements for a Title V Permit renewal, which has been combined with the Santa Barbara County Air Pollution Control District's (District's) triennial permit reevaluation. This application contains the information required by the Code of Federal Regulations (CFR) Title 40 Section 70.5(c) and the District's Title V permit renewal requirements per Rule 1302.

The application forms required for permit renewal are provided in Appendix A. Additional supporting documentation, including a copy of the current Title V permit, is provided in the remaining appendices.

### 1.2 Facility Contact Information

Facility contact information is provided in Table 1-1.

**Table 1-1: Facility Contact Information**

<b>Applicant's Name:</b>	SoCalGas – La Goleta Facility
<b>Applicant Contact Information:</b>	Uliana Micovic Team Lead, Air Quality Storage Phone: (818) 960-8627 E-mail: <a href="mailto:UMicovic@socalgas.com">UMicovic@socalgas.com</a>
<b>Applicant Responsible Official Information:</b>	Ryan Bolton Storage Operations Manager Phone: (818) 700-3813 E-mail: <a href="mailto:RBolton@socalgas.com">RBolton@socalgas.com</a>
<b>Mailing Address:</b>	P.O. Box 818 Goleta, CA 93116
<b>Equipment Location:</b>	1171 More Road Goleta, CA 93111

## 2.0 APPLICATION REQUIREMENTS

The application requirements as specified in District Rule 1302 are presented in this section.

## 2.1 Source Identification Information

Source identification information is required by Rule 1302(D)(1)(a). The La Goleta Natural Gas Storage Facility is owned and operated by SoCalGas. The stationary source (Facility Identification number (FID) 1734) includes natural gas compressors, a dehydration plant, ancillary equipment, and an underground natural gas storage reservoir. It is located in the Southern Zone of Santa Barbara County with a street address of 1171 More Road, Goleta, CA 93111.

The La Goleta Facility was constructed in the 1940s. The Facility currently includes 13 underground gas storage wells (including the new Todd 2 Well, which is being added to the permit); a dehydration plant consisting of a tank farm, odorization equipment, methanol storage tank, and external combustion equipment, including flares; a number of gas-fired internal combustion (IC) engines driving natural gas compressors and ICE driven pumps. The IC Engines driving gas compressors 2 through 8 are controlled with Non-Selective Catalytic Reduction (NSCR) systems. The La Goleta Facility is permitted to withdraw natural gas from its underground storage at the rate of 680 million standard cubic feet (MMscf) per day, while its hydrocarbon (HC) liquid production is restricted to 125,000 gallons per year.

Natural gas of California Public Utilities Commission (PUC) quality is compressed, cooled, and stored in an underground depleted gas reservoir. During heavy demand, the gas is withdrawn from the reservoir, separated from sand/moisture, dehydrated, odorized, and routed to pipelines.

## 2.2 Standard Industrial Classification

The facility four-digit Standard Industrial Classification (SIC) code, stationary source identification number (SSID), and FID, as required by Rule 1302(D)(1)(b), are listed in Table 2-1.

**Table 2-1: SIC Code, SSID, and FID**

<b>SIC Code:</b>	4922
<b>SSID:</b>	005019
<b>FID:</b>	1734

## 2.3 Identification and Description of all Sources of Emissions

Points of emissions are identified and described in Table 2-2, as required by Rule 1302(D)(1)(c).

**Table 2-2: Source Identification**

<b>Device ID #</b>	<b>Description</b>	<b>Equipment Category</b>
001199	Gas Compressor #2: Ingersoll-Rand LVG-82	Internal Combustion Engine - Controlled
001200	Gas Compressor #3: Ingersoll-Rand LVG-82	Internal Combustion Engine - Controlled
001201	Gas Compressor #4: Ingersoll-Rand LVG-82	Internal Combustion Engine - Controlled
001202	Gas Compressor #5: Ingersoll-Rand LVG-82	Internal Combustion Engine - Controlled
001203	Gas Compressor #6: Ingersoll-Rand KVG-62	Internal Combustion Engine - Controlled
001204	Gas Compressor #7: Ingersoll-Rand KVG-62	Internal Combustion Engine - Controlled
001205	Gas Compressor #8: Ingersoll-Rand KVG-62	Internal Combustion Engine - Controlled

Device ID #	Description	Equipment Category
001206	Gas Compressor #9: Cooper-Bessemer GMV-10C	Internal Combustion Engine - Uncontrolled
107543	Micro-turbine Generator, #1 Capstone C60	Micro-turbine Generator
107544	Micro-turbine Generator #2 Capstone C60	Micro-turbine Generator
107545	Micro-turbine Generator #3 Capstone C60	Micro-turbine Generator
107546	Micro-turbine Generator #4 Capstone C60	Micro-turbine Generator
008666	E/S Diesel Firewater Pump #12A: Cummins V-378F2	Emergency Fire Pump
008668	E/S Diesel Firewater Pump #13A: Cummins V-378F2	Emergency Fire Pump
001221	Air Compressor #4A: Waukesha VRG220U	Internal Combustion Engine – Permit Exempt
001222	Air Compressor #5A: Waukesha VRG220U	Internal Combustion Engine – Permit Exempt
001215	Flare #3 (Tank Farm)	External Combustion
001212	Flare #2 (Plant #14)	External Combustion
001211	Flare #1 (Plant #14)	External Combustion
001214	Hot Oil Heater #1	External Combustion
394789	Hot Oil Heater #2	External Combustion – Permit Exempt
113985	Heater #1	External Combustion
113987	Heater #2	External Combustion
001219	Flotation Cell #1	HC Liquid Storage Tank
001220	Flotation Cell #2	HC Liquid Storage Tank
001217	Liquid Hydrocarbon Storage Tank	HC Liquid Storage Tank
008669	Grade Level Loading Station	Loading Station
100882	Valves – Accessible	Fugitive Components
100883	Connections – Accessible	Fugitive Components
100886	Pressure Relief Devices – Uncontrolled	Fugitive Components
100885	Compressor Seals – Accessible	Fugitive Components
100884	Pump Seals – Accessible	Fugitive Components
100903	Gas Stacks/Vents	Emissions (Venting)
100873	Flash-tank Unit	Gas/Glycol Contactors
008680	Solvent Process Operations	Solvent Usage

## 2.4 Emission-Related Information

As required by Rule 1302(D)(1)(d), the facility criteria pollutant emissions (potential to emit [PTE] basis in tons per year [TPY]) are shown in Tables 2-3 and 2-4, on Form 1302-B in Appendix A,

and detailed calculations in Appendix C. Criteria pollutant emissions were calculated using the permitted emission factors and throughputs from the current version of the permit, with some updates. These updates include fugitive emission calculations using the most recent fugitive emission component counts, as described in Section 2.10. The most recent fugitive component counts included new Todd 2 Well components, which were authorized in authority to construct (ATC) 13394-01. There were no revisions to the Federal PTE.

**Table 2-3: Criteria Pollutant PTE [FPTE & PPTE]**

Equipment Category	NO <sub>x</sub> (TPY)	ROC (TPY)	CO (TPY)	SO <sub>x</sub> (TPY)	PM <sub>10</sub> (TPY)
Combustion – IC Engines	93.31	182.42	1,306.80	3.65	5.35
Combustion – External	3.18	0.28	11.49	1.31	0.40
HC Liquid Storage Tanks	--	0.11	--	--	--
Loading Station	--	0.17	--	--	--
Fugitive Components	--	11.75	--	--	--
Venting	--	33.95	--	--	--
Glycol Unit	--	9.51	--	--	--
Solvent Usage	--	0.40	--	--	--
<b>Total</b>	<b>96.50</b>	<b>238.59</b>	<b>1,318.29</b>	<b>4.96</b>	<b>5.76</b>

**Table 2-4: Criteria Pollutant Federal<sup>1</sup> PTE [PTE-Fed]**

Equipment Category	NO <sub>x</sub> (TPY)	ROC (TPY)	CO (TPY)	SO <sub>x</sub> (TPY)	PM <sub>10</sub> (TPY)
Combustion – IC Engines	101.66	182.87	1,313.80	3.7	5.41
Combustion – External	3.50	0.33	14.09	1.43	0.47
HC Liquid Storage Tanks	–	0.11	–	–	–
Loading Station	–	0.17	–	–	–
Fugitive Components	–	0	–	–	–
Venting	–	33.95	–	–	–
Glycol Unit	–	9.51	–	–	–
Solvent Usage	–	0.4	–	–	–
<b>Total</b>	<b>105.16</b>	<b>227.34</b>	<b>1,327.89</b>	<b>5.14</b>	<b>5.88</b>

<sup>1</sup> The Federal PTE of a stationary source does not include fugitive emissions of any pollutant (unless the source is subject to a federal NSPS/NESHAP requirement which was in effect as of August 7, 1980, or included in the 29-category source list specified in 40 CFR 70.2, neither of which apply to the La Goleta Facility). The Federal PTE does include all emissions from any insignificant emissions units.

Hazardous air pollutant (HAP) emissions, which were produced using the permitted emission factors and throughput rates, are shown in Table 2-5. There were revisions to some of the HAP emissions, including using the most recent fugitive component counts.

**Table 2-5: Hazardous Air Pollutant PTE**

Pollutant	IC Engines (TPY)	Other Sources (TPY)	Total (TPY)
Acetaldehyde	6.44E-01	9.96E-04	6.45E-01
Acrolein	1.39	2.85E-04	1.39
Benzene	7.79E-02	1.75E-01	2.53E-01
1, 3-Butadiene	2.94E-03	–	2.94E-03
Carbon tetrachloride	7.75E-05	–	7.75E-05
Chlorobenzene	5.65E-05	–	5.65E-05
Chloroform	6.00E-05	–	6.00E-05
1, 3-Dichlororpropene	5.56E-05	–	5.56E-05
Ethylbenzene	5.61E-04	2.93E-02	2.99E-02
Ethylene dibromide	9.33E-05	–	9.33E-05
Ethylene dichloride	4.95E-05	–	4.95E-05
Ethylidene dichloride	4.95E-05	–	4.95E-05
Formaldehyde	2.40	2.39E-02	2.42
Hexane	4.07E-06	2.05	2.05
Hydrogen Chloride	2.82E-05	–	2.82E-05
Methanol	6.42E-01	–	6.42E-01
Methylene Chloride	1.80E-04	–	1.80E-04
Naphthalene	1.32E-02	2.30E-04	1.34E-02
PAHs	2.10E-04	6.32E-05	2.74E-04
Propylene dichloride	5.69E-05	–	5.69E-05
Propylene oxide	4.08E-04	–	4.08E-04
1,1,2,2-Tetrachloroethane	1.11E-04	–	1.11E-04
1,1,2-Trichloroethane	6.70E-05	–	6.70E-05
Styrene	5.21E-02	–	5.21E-02
Toluene	6.04E-02	2.42E-02	8.46E-02
Vinyl Chloride	3.14E-05	–	3.14E-05
Xylenes	1.76E-03	2.16E-02	2.34E-02
Arsenic	2.42E-07	1.03E-05	1.05E-05
Beryllium	–	6.16E-07	6.16E-07
Cadmium	2.27E-07	5.64E-05	5.67E-05
Chromium	9.09E-08	7.18E-05	7.19E-05



Pollutant	IC Engines (TPY)	Other Sources (TPY)	Total (TPY)
Cobalt	–	4.31E-06	4.31E-06
Lead	1.26E-06	–	1.26E-06
Manganese	4.69E-07	1.95E-05	2.00E-05
Mercury	3.03E-07	1.33E-05	1.36E-05
Nickel	5.91E-07	1.08E-04	1.08E-04
Selenium	3.33E-07	1.23E-06	1.56E-06
<b>Total HAP (TPY)</b>			<b>7.56</b>

## 2.5 Citation and Description of all Applicable Requirements

As required by Rule 1302(D)(1)(e), a summary of facility rule requirements is listed in Form 1302-I in Appendix A.

## 2.6 Proposed Exemptions

The facility is operating exempt and insignificant emission units [Rule 1302(D)(1)(f)]. A list of exempt and exempt insignificant emission units is listed in Table 2-6 and included as Form 1302-H in Appendix A.

Additional pressure vessels or separators (V00632, V-73, V-161, and V-144) are being added to the Permit Exempt portion of the Equipment List, as discussed with the District. These vessels do not have additional emissions since emissions associated with these vessels are due to the already permitted and accounted for fugitive components.

**Table 2-6: Exempt and Insignificant Emission Units**

Emission Unit ID	Unit Description	Status
100914	Wipe Cleaning Solvent Usage	Insignificant
008665	IC Engine: Emergency Generator	Exempt and Insignificant
100890	Glycol/Glycol Heat Exchanger	Exempt and Insignificant
100911	Diesel Tanks	Exempt and Insignificant
100910	Glycol Storage Tanks	Exempt and Insignificant
100912	Lube Oil Tanks	Exempt and Insignificant
100913	Degreaser Unit	Exempt and Insignificant
100915	Hot Water Heaters	Exempt and Insignificant
100916	Air Conditioning System	Exempt and Insignificant
394789	Hot Oil Heater #2	Exempt
001221	IC Engine: Air Compressor # 4A	Exempt
001222	IC Engine: Air Compressor # 5A	Exempt
100891	Glycol/Oil Heat Exchanger	Exempt and Insignificant
114270	Heat Exchanger	Exempt
	Abrasive Blasting Cabinet	Exempt and Insignificant

Emission Unit ID	Unit Description	Status
	V-0632 Spherical Scrubber	Exempt and Insignificant
	V-73 Separator	Exempt and Insignificant
	V-161 Inlet Gas Scrubber	Exempt and Insignificant
	V-144 Inlet Gas Scrubber	Exempt and Insignificant

## 2.7 Compliance Plan

A facility Compliance Plan [Rule 1302(D)(1)(h)] is included as Form 1302-J in Appendix A of this application. There is one NOV at the La Goleta Facility for which the District has not yet approached SoCalGas with a settlement offer, however the underlying condition leading up to the NOV has been addressed in a timely manner and there are no ongoing non-compliance issues at this time at the La Goleta Facility.

## 2.8 Compliance Certification

Application Certification is provided via Form 1302-M, which is included in Appendix A [Rule 1302(D)(1)(i)].

## 2.9 Acid Rain

The facility is not an Acid Rain facility; the requirements of 40 CFR Part 72 do not apply [Rule 1302(D)(1)(j)].

## 2.10 Permit Updates

The facility is requesting several edits to the permit. The requested permit edits include incorporation of the application submitted on June 19, 2023, to convert ATC 13394-01 for the Todd 2 Well to a PTO, as well as edits to the language. The requested permit edits also include the updated fugitive component count from the Quarter 3, 2023 compliance check, which included the component leak-paths authorized in ATC 13394-01.

A list of requested changes is provided in Table 2-7. The suggested revised permit language for selected update items is provided in Appendix B.

**Table 2-7: Requested Permit Updates**

Item	Permit Section	Action
1	1.6.5	Correct the typo that states the previously proposed alternate operating scenario would be a violation of Rule 331, to the correct Rule 333 as it relates to engines.
2	4.5.1	Remove the sentence stating the tanks are uncontrolled, as the permit states previously that the tanks are connected to the vapor recovery unit.
3	9.C.6	Update Table C.6 to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
4	9.C.9	Update Table C.9 to correct number of gas wells to 13.
5	9.D.14	Update Table 9.D.14. to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).

Title V Operating Permit Renewal Application  
SoCalGas – La Goleta Facility

Item	Permit Section	Action
6	9.D.15	Correct Table 9.D.15 to intermittent bleed devices, not intermediate bleed devices.
7	9.D.16	Update Table D.16 to correct the number of well casing vents to 11 (2 of the 13 wells are observation wells).
8	Table 5.1-1B, Table 5.1-3B, Table 5.1-4B, Table 5.2A, Table 5.2B, Table 5.4-2B	Update tables to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
9	Table 5.1-1B, Table 5.1-3B, Table 5.1-4B, Table 5.2A, Table 5.2B	Correct the number of compressor seals to 16 as stated elsewhere in the permit (in sections 9.C.6 and 9.D.14) and correct the associated emissions.
10	Table 5.4-1B	Correct IC Engines #2 - #9 styrene and toluene emissions, as the emissions are currently swapped (toluene emissions listed as styrene and vice-versa).
11	Table 5.4-3	Update the total HAP emissions to reflect the changes from fugitive component updates, and the IC Engine #2 - #9 styrene and toluene emission updates.
12	Table 10.4-1, Table 10.4-2	Update the Permitted PTE (PPTE) and Facility PTE (FPTE) to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
13	Table 10.4-3	Correct typo in Table 10.4-3, which states the Facility Federal PTE for ROC is 277.34 TPY to the correct value of 227.34 TPY.
14	10.5	Update Equipment Lists to include operator IDs on items # 1.3, 1.4, 3.2, 3.6, 3.7, 3.8, 6.5, 9, 10.2, and 10.4.
15	10.5	Update Equipment List item #2.3 to correct the number of underground gas storage wells to 13.
16	10.5	Update Equipment List items #6.1-6.4 to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
17	10.5	Correct item #6.2 to correct the quantity of compressors and seals to 8 compressors with 16 seals as stated elsewhere in the permit (in sections 9.C.6 and 9.D.14).
18	10.5	Correct item #15 to intermittent bleed devices, not intermediate bleed devices. Update item #15 device description.
19	10.5	Update Permitted Equipment List to remove the nine well casing vents because the associated wells have been plugged and abandoned (Bishop 1, Chase and Bryce 1, Edwards 1, Goleta 1, Miller 3, Miller 6, Miller 7, Miller 9, More 3).

Item	Permit Section	Action
20	10.5	Update the Equipment List to include the revisions from ATC 13394-01 by adding well casing vent on Todd 2.
21	10.5	Update Exempt Equipment List to include vessels (spherical gas scrubber, liquids separator, and 2 inlet gas scrubbers).
22	10.5	Update De-permitted Equipment List to add the nine well casing vents because the associated wells have been plugged and abandoned (Bishop 1, Chase and Bryce 1, Edwards 1, Goleta 1, Miller 3, Miller 6, Miller 7, Miller 9, More 3).

## 2.11 Permit History

The recent facility permit revisions, reevaluations, and modifications, including permit to operate (PTO), authority to construct (ATC), and ATC application listings, are shown in Table 2-8.

**Table 2-8: History of Permit Revisions, Modifications, and Reevaluations**

Permit	Issue/Submittal Date	Action
ATC Application 16080	3/30/2023	Open ATC application to install one 65-kW microturbine engine and upgrade four microturbines (Device IDs: 107543, 107544, 107545, 107546).
ATC 13394-01 Conversion Application	06/19/2023	Application submitted to convert ATC 13394-01 for Todd 2 Well to a PTO.
ATC 15787	6/13/2022	PTO for installation of 4 zero emission vacuum and compressor (ZEVAC) units (Device IDs: 395680 and 395678), 2 at the Miller well site and 2 at the Todd well site, and associated additional fugitive components.
ATC 15833	10/24/2022	Replacement of one air to fuel ratio controller (AFRC), oxygen sensor, fuel meter, and natural gas fuel line for IC Engine: Gas Compressor #4 (Device ID: 001201), a new coalescer vessel (Device ID: 396716), and associated de minimis fugitive components (Device ID: 396715).
ATC 15955	06/24/2023	Replacement of 6 AFRCs, oxygen sensors, fuel meters, and natural gas fuel lines for IC Engines: Gas Compressors #2, 3, and 5-8 (Device IDs: 001199, 001200, 001202, 001203, 001204, 001205).
ATC 14159	11/19/2013	Dehydration plant upgrades, including addition of a three-phase separator (Device ID: 386567), condensers (Device IDs: 386568, 386571, 386573), filters (Device IDs: 386565, 386570, 386572), heat exchanger (Device ID: 386566), and other associated equipment (Device IDs: 386569, 386574, 386575, 386576) and removal of existing separator (Device ID: 100878), condensers (Device IDs: 100869, 100870), heat exchanger, and other associated equipment (Device ID: 100876).

## 2.12 Compliance History

The facility violation history since the previous Title V permit renewal is shown in Table 2-9. The facility currently is in compliance, however there is one NOV for which the District has not yet contacted SoCalGas with an offer to settle it. In addition, the facility did have one variance (Variance 2022-08-N) since the previous renewal, for the break-in period of engine MU#8 (District ID# 01205), which was granted on September 7, 2022, and terminated January 5, 2023.

**Table 2-9: Listing of Notices of Violation**

Violation	Number	Issue Date	Description
NOV	13214	11/3/2022	Deviation reported in 2022 annual CVR is a violation of District Rule 303-Nuisance. Settled.
NOV	13334	5/22/2023	Situation found during the May 17, 2023 District inspection is an alleged violation of CCR Title 17 Sub-article 13, the Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. The facility was brought into compliance on the same day as the inspection, however the District has not yet approached SoCalGas with a settlement offer.

## 3.0 MISCELLANEOUS PERMIT TOPICS

### 3.1 Application Shield

In accordance with Rule 1302, the Title V program includes an application shield provision that protects the applicant from being in violation of Title V for operating without a permit under certain circumstances. Application shields apply to initial permit and permit renewal applications.

The application shield allows the applicant to operate without a renewed Title V permit provided compliance with the Rule requirements are met. Pursuant to Rule 1304, a Title V permit renewal application shall be submitted no later than 2 years and 6 months from the date of issuance. A timely application for this facility would be no later than December 18, 2023.

### 3.2 Streamlined Permit Conditions

A Title V permit applicant may request to streamline permit conditions when there are overlapping regulatory requirements. SoCalGas is not requesting streamlined permit conditions with this Title V renewal application.

### 3.3 Permit Shield

As provided in Rule 1303, a permit shield is an optional part of a Title V permit that gives a facility explicit protection from requirements that do not apply. A permit shield is a provision in a permit which states that compliance with the conditions of the permit shall be deemed in compliance with all identified regulatory requirements. A permit shield can also identify specific regulatory requirements that do not apply to specific equipment or processes. SoCalGas is not requesting a permit shield with this Title V renewal application.

### 3.4 California Environmental Quality Act

Pursuant to Section 21080.24 of the California Health and Safety Code, the California Environmental Quality Act (CEQA) does not apply to the issuance, modification, amendment, or

renewal of a permit by an air pollution control district or air quality management district pursuant to Title V, as defined in Section 39053.3 of the Health and Safety Code, or pursuant to a district Title V program established pursuant to Sections 42301.10, 42301.11, and 42301.12 of the Health and Safety Code, unless the issuance, modification, amendment, or renewal authorizes a physical or operational change to a source or facility. Because this renewal application does not seek a modification, amendment, or authorization of a physical or operational change to a source or facility, the renewal is not subject to CEQA review.

## APPENDIX A – APPLICATION FORMS

Application Form Name	Form Number
General Permit Application	Form-01
Stationary Source Summary	Form 1302-A1
Stationary Source Summary	Form 1302-A2
Total Stationary Source Emissions	Form 1302-B
Exempt Emissions Units	Form 1302-H
Compliance Plan	Form 1302-I
Compliance Plan Certification	Form 1302-J
Certification Statement	Form 1302-M



# General Permit Application Form -01

Santa Barbara County Air Pollution Control District  
260 N. San Antonio Road, Suite A  
Santa Barbara, CA 93110-1315

### 1. APPLICATION TYPE (check all that apply):

- Authority to Construct (ATC)
- Permit to Operate (PTO)
- ATC Modification
- PTO Modification
- Other (Specify)
- Transfer of Owner/Operator (use Form -01T)
- Emission Reduction Credits
- Increase in Production Rate or Throughput
- Decrease in Production Rate or Throughput

Previous ATC/PTO Number (if known)

Yes  No Are Title 5 Minor Modification Forms Attached? (this applies to Title 5 sources only and applies to all application types except ATCs and Emission Reduction Credits). Complete Title 5 Form -1302 A1/A2, B, and M. Complete Title 5 Form -1302 C1/C2, D1/D2, E1/E2, F1/F2, G1/G2 as appropriate. <http://www.ourair.org/wp-content/uploads/t5-forms.pdf>

Mail or email the completed application to the APCD's Engineering Division at the address listed above or [permits@sbcapcd.org](mailto:permits@sbcapcd.org).

### 2. FILING FEE:

A \$491 application filing fee must be included with each application. The application filing fee is COLA-adjusted every July 1st. Please ensure you are remitting the correct current fee (the current fee schedule is available on the APCD's webpage at: <http://www.ourair.org/district-fees>). This filing fee will not be refunded or applied to any subsequent application. Payment may also be made by credit card by submitting the Credit Card Authorization Form found here <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> via mail or calling 805-979-8050 to pay via phone.

**Do not submit the Credit Card Authorization Form via email.**

**3. IS YOUR PROJECT'S PROPERTY BOUNDARY LOCATED OR PROPOSED TO BE LOCATED WITHIN 1,000 FEET FROM THE OUTER BOUNDARY OF A SCHOOL?** If yes, and the project results in an emissions increase, submit a completed Form -03 (*School Summary Form*) <http://www.ourair.org/wp-content/uploads/apcd-03.pdf>  Yes  No

If yes, provide the name of school(s)

Address of school(s)

City  Zip Code

**4. DOES YOUR APPLICATION CONTAIN CONFIDENTIAL INFORMATION?**  Yes  No

If yes, please submit with a redacted duplicate application which shall be a public document. In order to be protected from disclosure to the public, all information claimed as confidential shall be submitted in accordance with APCD Policy & Procedure 6100-020 (*Handling of Confidential Information*): <http://www.ourair.org/wp-content/uploads/6100-020.pdf>, and meet the criteria of CA Govt Code Sec 6254.7. Failure to follow required procedures for submitting confidential information, or to declare it as confidential at the time of application, shall be deemed a waiver by the applicant of the right to protect such information from public disclosure. *Note: Part 70 permit applications may contain confidential information in accordance with the above procedures, however, the content of the permit documents must be public (no redactions).*

FOR APCD USE ONLY			DATE STAMP
FID	1734	Permit No.	PT-70/Reeval 9584-R8
Project Name	La Goleta		Rec'vd 11/29/2023
Filing Fee	\$491	202.E? YES / NO	

CC #4356 Justin Rich



**5. COMPANY/CONTACT INFORMATION:**

<b>Owner Info</b>		<input checked="" type="radio"/> Yes <input type="radio"/> No	Use as Billing Contact?
Company Name	SoCalGas		
Doing Business As			
Contact Name	Ryan Bolton	Position/Title	Storage Operations Manager
Mailing Address	PO Box 818		
City	Goleta	State	CA Zip Code 93116-0818
Telephone	818-700-3813	Cell	805-217-3431 Email RBolton@SoCalGas.com

<b>Operator Info</b>		<input checked="" type="radio"/> Yes <input type="radio"/> No	Use as Billing Contact?
Company Name	SoCalGas		
Doing Business As			
Contact Name	Ryan Bolton	Position/Title	Storage Operations Manager
Mailing Address	PO Box 818		
City	Goleta	State	CA Zip Code 93116-0818
Telephone	818-700-3813	Cell	805-217-3431 Email RBolton@SoCalGas.com

<b>Authorized Agent Info*</b>		<input type="radio"/> Yes <input checked="" type="radio"/> No	Use as Billing Contact?
Company Name			
Doing Business As			
Contact Name		Position/Title	
Mailing Address			
City		State	
Telephone		Cell	
		Email	

\*Use this section if the application is not submitted by the owner/operator. Complete APCD Form -01A ( <http://www.ourair.org/wp-content/uploads/apcd-01a.pdf> ). Owner/Operator information above is still required.

<b>SEND PERMITTING CORRESPONDENCE TO</b> (check all that apply):	
<input checked="" type="checkbox"/> Owner	<input checked="" type="checkbox"/> Operator
<input type="checkbox"/> Authorized Agent	<input type="checkbox"/> Other (attach mailing information)

**6. GENERAL NATURE OF BUSINESS OR AGENCY:**

Natural Gas compression and storage.

**7. EQUIPMENT LOCATION (Address):**

Specify the street address of the proposed or actual equipment location. If the location does not have a designated address, please specify the location by cross streets, or lease name, UTM coordinates, or township, range, and section.

Equipment Address	1171 More Road		
City	Goleta	State	CA
		Zip Code	93111
Work Site Phone			

Incorporated (within city limits)  Unincorporated (outside city limits)  Used at Various Locations

Assessors Parcel No(s):

**8. PROJECT DESCRIPTION:**

(Describe the equipment to be constructed, modified and/or operated or the desired change in the existing permit. Attach a separate page if needed):

Title V renewal application

**9. DO YOU REQUIRE A LAND USE PERMIT OR OTHER LEAD AGENCY PERMIT FOR THE PROJECT DESCRIBED IN THIS APPLICATION?:**  Yes  No

A. If **yes**, please provide the following information

Agency Name	Permit #	Phone #	Permit Date

\* The lead agency is the public agency that has the principal discretionary authority to approve a project. The lead agency is responsible for determining whether the project will have a significant effect on the environment and determines what environmental review and environmental document will be necessary. The lead agency will normally be a city or county planning agency or similar, rather than the Air Pollution Control District.

B. If **yes**, has the lead agency permit application been deemed complete and is a copy of their completeness letter attached?

Yes  No

Please note that the APCD will not deem your application complete until the lead agency application is deemed complete.

C. If the lead agency permit application has not been deemed complete, please explain.

D. A copy of the final lead agency permit or other discretionary approval by the lead agency may be requested by the APCD as part of our completeness review process.

**10. PROJECT STATUS:**

A. Date of Equipment Installation

B. Have you been issued a Notice of Violation (NOV) for not obtaining a permit for this equipment/modification *and/or* have you installed this equipment without the required APCD permit(s)? If yes, the application filing is double per Rule 210.  Yes  No

C. Is this application being submitted due to the loss of a Rule 202 exemption?  Yes  No

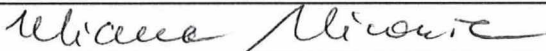
D. Will this project be constructed in multiple phases? If yes, attach a separate description of the nature and extent of each project phase, including the associated timing, equipment and emissions.  Yes  No

E. Is this application also for a change of owner/operator? If yes, please also include a completed APCD Form -01T.  Yes  No

**11. APPLICANT/PREPARER STATEMENT:**

The person who prepares the application also must sign the permit application. The preparer may be an employee of the owner/operator or an authorized agent (contractor/consultant) working on behalf of the owner/operator (an *Authorized Agent Form -01A* is required).

I certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct.



Signature of application preparer

11/28/2023

Date

Uliana Micovic

Print name of application preparer

SoCalGas

Employer name

**12. APPLICATION CHECKLIST (check all that apply)**

Application Filing Fee (Fee = \$491. The application filing fee is COLA adjusted every July 1st. Please ensure you are remitting the current fee.) As a convenience to applicants, the APCD will accept credit card payments. If you wish to use this payment option, please complete a *Credit Card Form-01C* <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> and submit it via mail or call 805-979-8050 to pay over the phone. **Do not submit the Credit Card Form-01C via email.**

Existing permitted sources may request that the filing fee be deducted from their current reimbursable deposits by checking this box. Please deduct the filing fee from my existing reimbursement account.

Form -01T (*Transfer of Owner/Operator*) attached if this application also addresses a change in owner and/or operator status from what is listed on the current permit. <http://www.ourair.org/wp-content/uploads/apcd-01t.pdf>

Form -03 (*School Summary Form*) attached if the project's property boundary is within 1,000 feet of the outer boundary of a school (k-12) and the project results in an emissions increase. <http://www.ourair.org/wp-content/uploads/apcd-03.pdf>

Information required by the APCD for processing the application as identified in APCD Rule 204 (*Applications*), the APCD's *General APCD Information Requirements List* (<https://www.ourair.org/wp-content/uploads/gen-info.pdf>), and any of the APCD's *Process/Equipment Summary Forms* (<http://www.ourair.org/permit-applications>) that apply to the project.

Form -01A (*Authorized Agent Form*) attached if this application was prepared by and/or if correspondence is requested to be sent to an Authorized Agent (e.g., contractor or consultant). This form must accompany each application. <http://www.ourair.org/wp-content/uploads/apcd-01a.pdf>

Confidential Information submitted according to APCD Policy & Procedure 6100-020. (*Failure to follow Policy and Procedure 6100-020 is a waiver of right to claim information as confidential.*)

**13. NOTICE OF CERTIFICATION:**

All applicants must complete the following Notice of Certification. This certification must be signed by the Authorized Company Representative representing the owner/operator. Signatures by Authorized Agents will not be accepted.

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**NOTICE of CERTIFICATION**

I,  , am employed by or represent  
Type or Print Name of Authorized Company Representative

Type or Print Name of Business, Corporation, Company, Individual, or Agency

(hereinafter referred to as the applicant), and certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct and the equipment listed herein complies or can be expected to comply with said rules and regulations when operated in the manner and under the circumstances proposed. If the project fees are required to be funded by the cost reimbursement basis, as the responsible person, I agree that I will pay the Santa Barbara County Air Pollution Control District the actual recorded cost, plus administrative cost, incurred by the APCD in the processing of the application within 30 days of the billing date. If I withdraw my application, I further understand that I shall inform the APCD in writing and I will be charged for all costs incurred through closure of the APCD files on the project.

For applications submitted for Authority to Construct, modifications to existing Authority to Construct, and Authority to Construct/Permit to Operate permits, I hereby certify that all major stationary sources in the state and all stationary sources in the air basin which are owned or operated by the applicant, or by an entity controlling, controlled by, or under common control with the applicant, are in compliance, or are on approved schedule for compliance with all applicable emission limitations and standards under the Clean Air Act (42 USC 7401 *et seq.*) and all applicable emission limitations and standards which are part of the State Implementation Plan approved by the Environmental Protection Agency.

Completed By:  Title:

Date:  Phone:

Signature of Authorized Company Representative

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**PLEASE NOTE THAT FAILURE TO COMPLETELY PROVIDE ALL REQUIRED INFORMATION OR FEES WILL  
RESULT IN YOUR APPLICATION BEING RETURNED OR DEEMED INCOMPLETE.**

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# STATIONARY SOURCE SUMMARY (Form 1302-A1)

APCD: Santa Barbara County Air Pollution Control District

COMPANY NAME: SoCalGas

## ➤ APCD USE ONLY ◀

APCD IDS Processing ID:

Application #:

Date Application Received:

Application Filing Fee\*:

Date Application Deemed Complete:

### I. SOURCE IDENTIFICATION

1. Source Name: SoCalGas - La Goleta Facility
2. Four digit SIC Code: 4922 USEPA AIRS Plant ID (for APCD use only):
3. Parent Company (if different than Source Name): Sempra Energy
4. Mailing Address of Responsible Official: P.O. Box 818, Goleta, CA 93116-0818
5. Street Address of Source Location (include Zip Code): 1171 More Road, Goleta, CA 93111
6. UTM Coordinates (if required) (see instructions):
7. Source located within: 50 miles of the state line  Yes  No  
50 miles of a Native American Nation  Yes  No  Not Applicable
8. Type of Organization:  Corporation  Sole Ownership  Government  
 Partnership  Utility Company
9. Legal Owner's Name: Southern California Gas Company
10. Owner's Agent Name (if any): Title: Telephone #:
11. Responsible Official: Ryan Bolton Title: Storage Operations Manager Telephone #: (818) 700-3813
12. Plant Site Manager/Contact: Uliana Micovic Title: Team Lead, Air Quality Storage Telephone #: (818) 960-8627
13. Type of facility: Natural Gas Compression and Storage
14. General description of processes/products: California Public Utilities Commission (CPUC) quality natural gas is transported from oil and gas producing companies for injection and storage. This natural gas is stored by compressing it and injecting it into a underground natural gas reservoir.
15. Does your facility store, or otherwise handle, greater than threshold quantities of any substance on the Section 112(r) List of Substances and their Thresholds (see Attachment A)?  Yes  No
16. Is a Federal Risk Management Plan [pursuant to Section 112(r)] required?  Not Applicable  Yes  No  
(If yes, attach verification that Risk Management Plan is registered with appropriate agency or description of status of Risk Management Plan submittal.)

\* Applications submitted without a filing fee will be returned to the applicant immediately as "improper" submittals

# STATIONARY SOURCE SUMMARY (Form 1302-A2)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

## II. TYPE OF PERMIT ACTION

	CURRENT PERMIT (permit number)	EXPIRATION (date)
<b>Initial SBCAPCD's Regulation XIII Application</b>		
<b>Permit Renewal</b>	9584-R7	June 18, 2023
<b>Significant Permit Revision*</b>		
<b>Minor Permit Revision*</b>		
<b>Administrative Amendment</b>		

## III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:
  - a:
 

<input type="checkbox"/> Portable Source	<input type="checkbox"/> Voluntary Emissions Caps
<input type="checkbox"/> Acid Rain Source	<input type="checkbox"/> Alternative Operating Scenarios
<input type="checkbox"/> Source Subject to MACT Requirements [Section 112]	
  - b:  None of the options in 1.a. are applicable
  
2. Is source operating under a Title V Program Compliance Schedule?     Yes     No
  
3. For permit modifications, provide a general description of the proposed permit modification:  
 SoCalGas is requesting minor text modifications as described in Section 2.10 and Appendix B of the permit renewal application.

\*Requires APCD-approved NSR permit prior to a permit revision submittal

# TOTAL STATIONARY SOURCE EMISSIONS (Form 1302-B)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

## I. TOTAL STATIONARY SOURCE EMISSIONS

Provide a brief description of operating scenario:

Normal operating scenario. Units are operated within the conditions and emission limits contained in Title V PTO 9584-R7.

POLLUTANT * (name)	EMISSIONS (tons per year)	PRE-MODIFICATION EMISSIONS (tons per year)	EMISSIONS CHANGE (tons per year)
NOx	105.16		
ROC	227.34	NOT APPLICABLE FOR FIRST	
CO	1,327.89	APPLICATION SUBMITTALS	
SOx	5.14		
PM	5.88		
PM10	5.88		
PM2.5	5.88		
HAP (Total)	7.56		

\* Emissions for all pollutants for which the source is major and for all NSPS/MACT-regulated air pollutants must be reported. HAP emissions must be determined, and those exceeding one ton per year from any emission unit category must also be quantified; if less than one ton per year, just list the HAPs emitted by name.

## EXEMPT EMISSIONS UNITS (Form 1302-H)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

Are you claiming any emitting activities to be insignificant? (See definition at bottom of page)

YES  NO

**I. ACTIVITIES CLAIMED TO BE INSIGNIFICANT (Attach supporting calculations)**

Activity	Description of Activity/Emission Units	Potential to Emit for each Pollutant
Device #100914	Wipe Cleaning Solvent Usage	
Device #008665	IC Engine: Emergency Generator	
Device #100890	Glycol/Glycol Heat Exchanger	
Device #100911	Diesel Tanks	
Device #100910	Glycol Storage Tanks	
Device #100912	Lube Oil Tanks	
Device #100913	Degreaser Unit	
Device #100915	Hot Water Heaters	
Device #100916	Air Conditioning System	
Device #394789	Hot Oil Heater #2	

Insignificant activities are defined in APCD Rule 1301 (definitions). For an activity to be considered insignificant emissions cannot exceed 2 tons per year potential to emit (PTE) any criteria pollutants, and 0.5 tons per year for any regulated HAP.

Note: Insignificant activities are not exempt from Part 70 requirements/permits.



# EXEMPT EMISSIONS UNITS (Form 1302-H)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

**Are you claiming any emitting activities to be insignificant? (See definition at bottom of page)**

YES  NO

**I. ACTIVITIES CLAIMED TO BE INSIGNIFICANT (Attach supporting calculations)**

Activity	Description of Activity/Emission Units	Potential to Emit for each Pollutant
Device #001221	IC Engine: Air Compressor # 4A	
Device #001222	IC Engine: Air Compressor # 5A	
Device #100891	Glycol/Oil Heat Exchanger	
Device #114270	Heat Exchanger	
	Abrasive Blasting Cabinet	0.00025 tons per year PM, PM10, PM2.5
	Spherical Scrubber V-0632	0
	Separator V-73	0
	Inlet Gas Scrubber V-161	0
	Inlet Gas Scrubber V-144	0

Insignificant activities are defined in APCD Rule 1301 (definitions). For an activity to be considered insignificant emissions cannot exceed 2 tons per year potential to emit (PTE) any criteria pollutants, and 0.5 tons per year for any regulated HAP.

Note: Insignificant activities are not exempt from Part 70 requirements/permits.



## Abrasive Blasting Cabinet Emissions Calculation

Media usage will be 50 pounds per year this will be monitored by purchasing records.

Emission factor reference PTO 0954-R6 Section 4.7.6  
0.01 pounds of PM per pound of abrasive media.

Emissions:

$$\frac{0.01 \times 50}{2000} = \mathbf{0.00025 \text{ tons per year}}$$

# COMPLIANCE PLAN (Form 1302-I1)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

## 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

Regulatory Reference <sup>2</sup>	Applicable Federal Requirement <sup>1</sup> Regulation Title <sup>2</sup>	Affected Emission Unit	In compliance? (yes/no/exempt <sup>3</sup> )	Effective Date <sup>4</sup>
APCD Rule 101	Compliance by Existing Installations	All emission units	Yes	May 18, 1981
APCD Rule 102	Definitions	All emission units	Yes	April 11, 2013
APCD Rule 103	Severability	All emission units	Yes	May 18, 1981
APCD Rule 201	Permits Required	All emission units	Yes	February 9, 2016
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	February 9, 2016
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	February 9, 2016
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 18, 1981
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-I1)

Applicable Federal Requirement <sup>1</sup>		Affected Emission Unit	In compliance? (yes/no/exempt <sup>3</sup> )	Effective Date <sup>4</sup>
Regulatory Reference <sup>2</sup>	Regulation Title <sup>2</sup>			
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 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.	Yes	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
<p>1 Review APCD SIP Rules, NSPS, NESHAPS, and MACTs .</p> <p>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)</p> <p>3 If exempt from applicable federal requirement, include explanation for exemption.</p> <p>4 Indicate the date during the permit term that the applicable federal requirement will become effective for the emission unit.</p>				

\*\*\* 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-I2)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

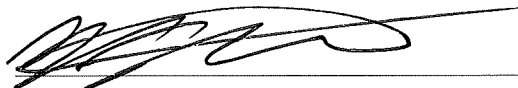
### III. COMPLIANCE CERTIFICATION

**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<sup>1</sup>;**

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.<sup>2</sup>



Signature of Responsible Official

11/28/2023

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)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY < <b>APCD IDS Processing ID:</b>
<b>COMPANY NAME:</b> SoCalGas	<b>SOURCE NAME:</b> La Goleta Facility

**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.

The facility will continue to submit the Compliance Certification Reports on or before March 1st and September 1st of each year.

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.

The Facility currently does NOT have a schedule of compliance to remedy a violation.

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:

N/A

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS Processing ID:
<b>COMPANY NAME: SoCalGas</b>	<b>SOURCE NAME: La Goleta Facility</b>

## 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
<b>Monitoring</b>	<p>The equipment permitted herein is subject to the following monitoring requirements:</p> <p>(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.</p> <p>(ii) Compliance Assurance Monitoring: SoCalGas shall implement the following CAM required monitoring:</p> <ol style="list-style-type: none"> <li>A. Monitor all compliance assurance indicators for the engines in conformance with the requirements listed in the CAM Plan.</li> <li>B. Log any excursions of each indicator from its limits that are set forth in the latest CAM Plan.</li> <li>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.</li> <li>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:                         <ul style="list-style-type: none"> <li>• Routine monitor calibrations and inspections;</li> <li>• Sudden and infrequent monitor malfunctions beyond the operator’s reasonable control [Ref: 40 CFR 64.7(c)]; and,</li> <li>• IC engine start-up periods.</li> </ul> </li> <li>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.</li> </ol>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	Internal Combustion Engines - District ID #1199-#1205 (Plant ID #2-#8)
<b>Monitoring</b>	<p>The following monitoring requirements apply:</p> <ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>C. Fuel Sulfur Content — The total sulfur content and H<sub>2</sub>S content of the gaseous fuel burned on the property shall be determined semi-annually using approved ASTM or ARB-approved test methods.</li> <li>D. Operating Hours — The hours of operation each month of each engine shall be documented in a log.</li> <li>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.</li> </ul>
<b>Reporting</b>	<p>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 <i>Semi-Annual Compliance Verification Reports</i> condition and include information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 in addition to the material specified in Condition 9.C.15. of the PTO.</p> <p>Information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 are as follows:</p> <ul style="list-style-type: none"> <li>A. The Compliance report must contain the information below: <ul style="list-style-type: none"> <li>a. Company name and address.</li> <li>b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.</li> <li>c. Date of report and beginning and ending dates of the reporting period.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>



# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	Internal Combustion Engines - District ID #1199-#1205 (Plant ID #2-#8)
<b>Reporting</b>	<p>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:</p> <ol style="list-style-type: none"> <li>a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.</li> <li>b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.</li> </ol>
<b>Record Keeping</b>	<p>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:</p> <ol style="list-style-type: none"> <li>(i) <i>Hours</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 required for the IC engine after it is shut-down.</li> <li>(ii) <i>Fuel Use</i> — Records documenting IC engine(s) monthly fuel consumption (scf/month).</li> <li>(iii) <i>Fuel Heating Value</i> — Records documenting the gross heating value of fuel (Btu/scf) on a semi-annual basis.</li> <li>(iv) <i>Fuel Sulfur Content</i> — Records documenting the total sulfur content and H<sub>2</sub>S content of the gaseous fuel on a semi-annual basis.</li> <li>(v) <i>Equipment Maintenance Data</i> — Records summary documenting engine/control device maintenance on an annual basis.</li> <li>(vi) <i>I&amp;M Plan Logs</i> — Logs documenting the parameter settings, NO<sub>x</sub> and CO level recorded, and other values required under the <i>Inspection and Maintenance Plan</i> for each engine shall be kept on-site.</li> <li>(vii) <i>Equipment ID/Tags</i> — 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.</li> <li>(viii) <i>Monitor Non-operational Time</i> – 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.</li> <li>(ix) <i>Set Point Settings Data</i> — A record of the most current Air Fuel Ratio Controller set points and the date these were established.</li> <li>(x) <i>Engine Operation Outside Settings</i> — 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.</li> <li>(xi) <i>Maintenance Records</i> — 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.</li> <li>(xii) <i>Control Equipment Parameters</i> — Records on catalyst (including manufacturer, model and serial numbers), engine, air-fuel ratio controller, or sensor replacement.</li> <li>(xiii) <i>CAM Plan Required Data</i> – 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.</li> </ol>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	Internal Combustion Engines - District ID #1199-#1205 (Plant ID #2-#8)
<b>Recordkeeping</b>	<p>(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:</p> <p>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).</p> <p>B. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) air pollution control and monitoring equipment.</p> <p>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).</p> <p>D. Records of all required maintenance performed on the air pollution control and monitoring equipment.</p> <p>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.</p> <p style="padding-left: 40px;">i. 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.</p>
<b>Test Methods</b>	Measure: CARB 1-100 for O <sub>2</sub> ; CARB 1-100, or USEPA Method 7E and 10 for NO <sub>x</sub> 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
<b>Monitoring</b>	<p>The following source testing and monitoring conditions apply:</p> <p>(i) <i>Limits Exceedance</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 of the PTO) have been exceeded shall constitute a violation of this permit.</p> <p>(ii) <i>I&amp;M Plan</i> — SoCalGas shall implement all monitoring provisions of its <i>IC Engine I&amp;M Plan</i> approved by the District.</p> <p>(iii) <i>Fuel Heating Value</i> — The gross heating value of the gaseous fuel (Btu/scf) shall be measured using approved ASTM or ARB-approved test methods annually.</p> <p>(iv) <i>Fuel Sulfur Content</i> — The total sulfur content and H<sub>2</sub>S content of the gaseous fuel burned on the property shall be analyzed and determined annually using approved ASTM or ARB-approved test methods.</p> <p>(v) <i>Operating Hours</i> — 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.</p> <p>(vi) <i>Fuel Use Metering</i> — 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 <i>Process Monitor Calibration and Maintenance Plan</i>.</p>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	<b>Internal combustion units - District IDs #1206, #1221, #1222, #8665, #8666, #8668 (Plant ID #9, #4A, #5A, #12A, #13A, Emergency Generator)</b>
<b>Reporting</b>	<p>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 <i>Semi-Annual Compliance Verification Reports</i> 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 Condition 9.C.15. of the PTO. Information required by 40 CFR 63 Subpart ZZZZ Table 7 and §63.6650 are as follows:</p> <ul style="list-style-type: none"> <li>A. The Compliance report must contain the information below: <ul style="list-style-type: none"> <li>a. Company name and address.</li> <li>b. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.</li> <li>c. Date of report and beginning and ending dates of the reporting period.</li> <li>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.</li> <li>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.</li> </ul> </li> <li>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: <ul style="list-style-type: none"> <li>a. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.</li> <li>b. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.</li> </ul> </li> <li>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: <ul style="list-style-type: none"> <li>a. Company name and address where the engine is located.</li> <li>b. Date of the report and beginning and ending dates of the reporting period.</li> <li>c. Engine site rating and model year.</li> <li>d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.</li> <li>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.</li> <li>f. Number of hours the engine is contractually obligated to be available.</li> <li>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.</li> <li>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.</li> </ul> </li> </ul>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	<b>Internal combustion units - District IDs #1206, #1221, #1222, #8665, #8666, #8668 (Plant ID #9, #4A, #5A, #12A, #13A, Emergency Generator)</b>
<b>Record Keeping</b>	<p>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:</p> <ul style="list-style-type: none"> <li>(i) <i>Hours</i> — Records documenting individual IC engine operating hours each month.</li> <li>(ii) <i>Fuel Use</i> — Records documenting IC engine Plant ID # 9 monthly fuel consumption (scf/month).</li> <li>(iii) <i>Fuel Heating Value</i> — Records documenting the gross heating value of fuel (Btu/scf) on an annual basis.</li> <li>(iv) <i>Fuel Sulfur Content</i> — Records documenting the total sulfur content and H2S content of the gaseous fuel on an annual basis.</li> <li>(v) <i>Equipment Maintenance Data</i> — Records summary documenting engine/control device maintenance on an annual basis.</li> <li>(vi) <i>I&amp;M Plan Logs</i> — Logs documenting the parameter settings, NOx and CO level recorded, and other values required under the <i>Inspection and Maintenance Plan</i> for the engine shall be kept on-site.</li> <li>(vii) <i>Equipment ID/Tags</i> — 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.</li> <li>(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: <ul style="list-style-type: none"> <li>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).</li> <li>2. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) air pollution control and monitoring equipment.</li> <li>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).</li> <li>4. Records of all required maintenance performed on the air pollution control and monitoring equipment.</li> <li>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.</li> <li>6. 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.</li> </ul> </li> </ul>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

<b>Emission Unit</b>	Internal combustion units - District IDs #1206, #1221, #1222, #8665, #8666, #8668 (Plant ID #9, #4A, #5A, #12A, #13A, Emergency Generator)
<b>Record Keeping</b>	<p>(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.</p> <p>(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.</p>
<b>Test Methods</b>	<p>IC engine #9: CARB 1-100 for O<sub>2</sub>; CARB 1-100, or USEPA Method 7E and 10 for NO<sub>x</sub> and CO respectively; USEPA Method 18 for ROC</p> <p>Emergency and firewater pumps: ASTM Method; Measure</p>

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

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

Federal Requirement & its Title:

Method	Description or Reference Method																		
<b>Monitoring</b>	<p>The permitted equipment is subject to the following monitoring requirements:</p> <ul style="list-style-type: none"> <li>(i) <i>Fuel Usage Metering.</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.</li> <li>(ii) <i>Heating Value Data.</i> On an annual basis maintain record of the heat content (HHV) basis of the fuel gas in units of Btu/scf.</li> <li>(iii) <i>Fuel Gas Sulfur Data.</i> The permittee shall measure the total sulfur and H<sub>2</sub>S content of the fuel gas annually in accordance with EPA Methods 15/16/16A.</li> <li>(iv) <i>Source Testing.</i> 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.</li> </ul>																		
<b>Reporting</b>	<p>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.</p>																		
<b>Record Keeping</b>	<p>The following records shall be maintained by the permittee and shall be made available to the District upon request:</p> <ul style="list-style-type: none"> <li>(i) <i>Fuel Gas Use.</i> 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.</li> <li>(ii) <i>Heat Content.</i> Record the annual heating value results of the fuel gas.</li> <li>(iii) <i>Operational Days.</i> For each month, the number of days each micro-turbine operated.</li> <li>(iv) <i>Sulfur Content.</i> The annual measured total sulfur and H<sub>2</sub>S content, both in units of ppmvd, of the fuel gas burned in the micro-turbines.</li> </ul>																		
<b>Test Methods</b>	<p>Turbine Exhaust:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">NO<sub>x</sub></td> <td>EPA Method 7E, ARB 1-100</td> </tr> <tr> <td>ROC</td> <td>EPA Method 18</td> </tr> <tr> <td>CO</td> <td>EPA Method 10, ARB 1-100</td> </tr> <tr> <td>Sampling Point Deter.</td> <td>EPA Method 1</td> </tr> <tr> <td>Stack Gas Flow Rate</td> <td>EPA Method 2 or 19</td> </tr> <tr> <td>O<sub>2</sub></td> <td>EPA Method 3</td> </tr> <tr> <td>Moisture Content</td> <td>EPA Method 4</td> </tr> </table> <p>Fuel Gas:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Higher Heating Value</td> <td>ASTM D 3588-88</td> </tr> <tr> <td>Total Sulfur Content<sup>(d)</sup></td> <td>EPA 15/16/16A</td> </tr> </table>	NO <sub>x</sub>	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 <sub>2</sub>	EPA Method 3	Moisture Content	EPA Method 4	Higher Heating Value	ASTM D 3588-88	Total Sulfur Content <sup>(d)</sup>	EPA 15/16/16A
NO <sub>x</sub>	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 <sub>2</sub>	EPA Method 3																		
Moisture Content	EPA Method 4																		
Higher Heating Value	ASTM D 3588-88																		
Total Sulfur Content <sup>(d)</sup>	EPA 15/16/16A																		

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

EMISSION UNIT: **Process Heaters -  
District ID #001214, 394789, 113985, 113987**

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	<p>The equipment permitted herein is subject to the following monitoring requirements:</p> <ul style="list-style-type: none"> <li>(i) <i>Default Rating Method.</i> 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).</li> <li>(ii) <i>Fuel Use Meter.</i> 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.</li> <li>(iii) <i>Existing Units Rated Between 2.000 - 5.000 MMBtu/hr.</i> These units are not subject to tuning or source testing requirements.</li> <li>(iv) <i>Units Rated at 2.000 MMBtu/hr or Below.</i> 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.</li> </ul>
<b>Reporting</b>	<p>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.</p>
<b>Record Keeping</b>	<p>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:</p> <ul style="list-style-type: none"> <li>(i) <i>Fuel Use – Device IDs 1214 and 394789.</i> The volume of fuel gas used each year (in units of standard cubic feet) as determined by the Default Rating Method.</li> <li>(ii) <i>Fuel Use – Device IDs 113985 and 113987.</i> The volume of fuel gas used each year (in units of standard cubic feet) as determined by the fuel meters.</li> <li>(iii) <i>Fuel Use Meter Calibration Records.</i> Calibration records of District-approved fuel use meters.</li> <li>(iv) <i>Tuning Records.</i> For units subject to Rule 360, maintain documentation verifying the required tune-ups, including a complete copy of each tune-up report.</li> <li>(v) <i>Maintenance Logs.</i> Maintenance logs for the unit(s) and fuel meter (as applicable).</li> </ul>
<b>Test Methods</b>	None

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

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

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	<p>The following monitoring conditions apply to the flare equipment items:</p> <ul style="list-style-type: none"> <li>(i) <i>Heating Value:</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).</li> <li>(ii) <i>Fuel Sulfur Content:</i> For flare unit 1215, ‘gaseous fuel’ sulfur content (H<sub>2</sub>S 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.</li> <li>(iii) <i>Purge Gas Sulfur Content:</i> 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.</li> <li>(iv) <i>Media Bed Changes:</i> SoCalGas shall maintain purchase records documenting the type of material purchased for the SULFATREAT units and the CEI-KMN units.</li> </ul>
<b>Reporting</b>	<p>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.</p>
<b>Record Keeping</b>	<p>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:</p> <ul style="list-style-type: none"> <li>(i) <i>Heating Value:</i> 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.</li> <li>(ii) <i>Fuel Sulfur Content:</i> Records documenting annually the ‘gaseous fuel’ sulfur content as measured periodically, and, if applicable, the purge gas sulfur content for each flare unit.</li> <li>(iii) <i>Media Bed Change:</i> 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.</li> </ul>
<b>Test Methods</b>	None



# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

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

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	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.
<b>Reporting</b>	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.
<b>Record Keeping</b>	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: <ol style="list-style-type: none"> <li>1. <i>Carbon Canister Change</i>: 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.</li> </ol>
<b>Test Methods</b>	None

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

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

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	<p>The following monitoring conditions apply:</p> <ul style="list-style-type: none"> <li>(i) <i>Hydrocarbon Liquid (Condensate) Volume</i>: 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.</li> <li>(ii) <i>API Gravity &amp; True Vapor Pressure Of Stored HC</i> — 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.</li> </ul> <p><u>Note</u>: 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.</p>
<b>Reporting</b>	<p>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 <i>Semi-Annual Compliance Verification Reports</i> condition of this permit.</p>
<b>Record Keeping</b>	<p>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:</p> <ul style="list-style-type: none"> <li>(i) <i>Hydrocarbon Liquid (Condensate) Volume</i>: The volume of hydrocarbon liquid produced annually shall be recorded</li> <li>(ii) <i>API Gravity &amp; True Vapor Pressure Of Stored HC</i> — 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.</li> <li>(iii) <i>Maintenance Records</i> — Records of maintenance performed per Sections B.3 and B.5 of Rule 326. These records contain, at a minimum, the following:             <ul style="list-style-type: none"> <li>A. <i>Tank Identification</i>: Tank identification type of vapor controls used, and initials of personnel performing maintenance.</li> <li>B. <i>Maintenance Performed</i>: Description of maintenance procedure performed.</li> <li>C. <i>Estimated Excess Emissions</i>: Excess emissions caused by maintenance and how determined.</li> <li>D. <i>Maintenance Dates &amp; Times</i>: Times and dates of maintenance procedure.</li> </ul> </li> </ul>
<b>Test Methods</b>	None

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

EMISSION UNIT: **Loading Station - District ID # 8669**

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	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.
<b>Reporting</b>	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 <i>Semi-Annual Compliance Verification Reports</i> condition of this permit.
<b>Record Keeping</b>	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.
<b>Test Methods</b>	None

EMISSION UNIT: **Wells – District ID # 8670,100903**

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</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.
<b>Reporting</b>	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 <i>Semi-Annual Compliance Verification Reports</i> condition of this permit.
<b>Record Keeping</b>	SoCalGas shall record the following: <ul style="list-style-type: none"> <li>(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.</li> <li>(ii) The dates and volumes of venting attributed to emergency events, and documentation of each emergency.</li> </ul>
<b>Test Methods</b>	None

# COMPLIANCE PLAN CERTIFICATION (Form 1302-J2)

EMISSION UNIT: **Solvent Usage – District ID # 8680**

Federal Requirement & its Title:

Method	Description or Reference Method
<b>Monitoring</b>	None
<b>Reporting</b>	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 <i>Semi-Annual Compliance Verification Reports</i> condition of this permit.
<b>Record Keeping</b>	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.
<b>Test Methods</b>	None

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

# CERTIFICATION STATEMENT (Form 1302-M)

<b>APCD:</b> Santa Barbara County Air Pollution Control District	> APCD USE ONLY <
<b>COMPANY NAME:</b> SoCalGas	<b>APCD IDS PROCESSING ID:</b>  <b>SOURCE NAME:</b> La Goleta Facility

Identify, by checking off below, the forms and attachments that are part of your application. If the application contains forms or attachments that are not identified below, please identify these attachments in the blank space provided below. Review the instructions if you are unsure of the forms and attachments that need to be included in a complete application.

**Forms included with application**

Stationary Source Summary Form  
 Total Stationary Source Emission Forms  
 Compliance Plan Form  
 Compliance Plan Certification Form  
 Exempt Equipment Form  
 Certification Statement Form

**List other forms or attachments**

Proposed revisions to Title V PTO 9584-R7

[ ] check here if additional forms listed on back

**Attachments included with application**

Description of Operating Scenarios  
 Sample emission calculations  
 Fugitive emission estimates  
 List of Applicable requirements  
 Discussion of units out of compliance with applicable federal requirements and, if required, submit a schedule of Compliance  
 Facility schematic showing emission points  
 NSR Permit  
 PSD Permit  
 Compliance Assurance monitoring protocols  
 Risk management verification per 112(r)

**I certify under penalty of law, based on information and belief formed after reasonable inquiry, that the information contained in this application, composed of the forms and attachments identified above, are true, accurate, and complete.**

**I certify that I am the responsible official, as defined in SBCAPCD's Regulation XIII, Rule 1301 or USEPA's 40 CFR Part 70.**

  
 Signature of Responsible Official

11/28/2023  
 Date

**Print Name of Responsible Official:** Ryan Bolton

**Title of Responsible Official and Company Name:** Storage Operations Manager

## APPENDIX B – PROPOSED PERMIT UPDATES

Proposed updates to the Title V permit for selected Table 2-7 items are indicated using **bold underline** format for new language and ~~strike through~~ format for deleted language.

### Appendix B.1 – Requested Update Item 1

Item	Permit Section	Action
1	1.6.5	Correct the typo that states the previously proposed alternate operating scenario would be a violation of Rule 331, to the correct Rule 333 as it relates to engines.

- 1.6.5 Alternate Operating Scenarios: A major source may be permitted to operate under different operating scenarios, if appropriate descriptions of such scenarios are included in its Part 70 permit application and if such operations are allowed under federally-enforceable rules SoCalGas requested an alternative operating scenario that would allow an overhauled engine to operate for approximately 150 hours under a break-in period where the catalyst would not be attached and the AFRC would be offline. The District denied this request because operation of the engine without these emission controls in place would constitute a violation of Rule ~~331~~**333**.

**Appendix B.2 – Requested Update Item 2**

Item	Permit Section	Action
2	4.5.1	Remove the sentence stating the tanks are uncontrolled, as is states previously that the tanks are connected to the vapor recovery unit.

4.5.1 Tanks: The La Goleta facility operates two flotation cells (brine/hydrocarbon storage tanks), one hydrocarbon liquid storage tank and a brine water storage tank. All four storage tanks are connected to the vapor recovery unit. The detailed tank calculations for the HC condensate tank and the flotation cells are performed using the methods presented in USEPA AP-42, Chapter 7. Each gas/glycol contactor at the plant is equipped with a pressurized control tank. Additionally the plant operates one NG-blanketed methanol storage tank. ~~All these tank emissions are uncontrolled however,~~ emissions are low and are assumed to be less than 0.10 TPY (200 lb/year).

**Appendix B.3 – Requested Update Item 3**

Item	Permit Section	Action
3	9.C.6	Update Table C.6 to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).

**C.6 Fugitive Hydrocarbon Emissions Components.** The following equipment units are addressed via the ‘component-leak-path’ methodology:

**Table C.6 (Fugitive HC Components and Component-Leak-Paths)**

District ID#	Equipment Item Name	Description
	<i>Gas &amp; Light Liquid Service Components</i>	
100882	Valves	<del>3,199</del> <b>3,287</b> component-leak-paths
100883	Connections	<del>14,658</del> <b>15,299</b> component-leak-paths
100886	Pressure Relief Devices	<del>50</del> <b>51</b> component-leak-paths
100885	Compressor Seals	16 component-leak-paths
100884	Pump Seals	5 component-leak-paths



**Appendix B.4 – Requested Update Item 4**

Item	Permit Section	Action
4	9.C.9	Update Table C.9 to correct number of gas wells to 13.

C.9 Wells. The following equipment items are included in this emissions unit category:

**Table C.9 (Gas Wells)**

District ID#	Equipment Item Name/Description
008670	Miscellaneous Gas Wells: <del>14</del> <b>13</b> in Number, fugitive emissions
100903	Miscellaneous Stacks/Gas Vents: gas venting due to pipeline depressurization

**Appendix B.5 – Requested Update Item 5**

Item	Permit Section	Action
5	9.D.14	Update Section 9.D.14 table to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).

**D.14 Fugitive Hydrocarbon Emissions Components.** The following equipment units are addressed via the ‘component-leak-path’ methodology:

District ID#	Equipment Item Name	Description
	<i>Gas &amp; Light Liquid Service Components</i>	
100882	Valves	<del>3,199</del> <b>3,287</b> component-leak-paths
100883	Connections	<del>14,658</del> <b>15,299</b> component-leak-paths
100886	Pressure Relief Devices	<del>50</del> <b>51</b> component-leak-paths
100885	Compressor Seals	16 component-leak-paths
100884	Pump Seals	5 component-leak-paths

**Appendix B.6 – Requested Update Item 6**

Item	Permit Section	Action
6	9.D.15	Correct Table 9.D.15 to intermittent bleed devices, not intermediate bleed devices.

D.15 **Intermittent Bleed Natural Gas Powered Pneumatic Devices.** The following equipment items are included in this emissions unit category:

District ID#	Equipment Item Name	Description
391978	<del>Intermediate</del> <b>Intermittent</b> Bleed Devices	10 Devices

**Appendix B.7 – Requested Update Item 7**

Item	Permit Section	Action
7	9.D.16	Update Table D.16 to correct the number of well casing vents to eleven (2 of the 13 wells are observation wells).

D.16 **Well Casing Vents.** The following equipment items are included in this emissions unit category:

District ID#	Equipment Item Name	Description
391979	Well Casing Vents	<del>12</del> <b>11</b> Well Casing Vents

**Appendix B.8 – Requested Update Items 8 & 9**

Item	Permit Section	Action
8	Table 5.1-1B, Table 5.1-3B, Table 5.1-4B, Table 5.2A, Table 5.2B, Table 5.4-2B	Update to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
9	Table 5.1-1B, Table 5.1-3B, Table 5.1-4B, Table 5.2A, Table 5.2B, Table 5.4-2B	Correct the number of compressor seals to 16 as stated elsewhere in the permit (in sections 9.C.6 and 9.D.14) and correct the associated emissions.

**Table 5.1-1 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584–R7 R8**  
**Non-IC Engines Operating Emissions Unit Descriptions**

Equipment Category	Description	ID#	Device Specifications				Usage Data			Maximum Operating Schedule				References
			Fuel	ppmv S	Size	Units	Capacity	Units	Load	hr	day	qrt	year	
Combustion - External	Flare: Field	001215	NG	239	--	--	1.600	MMBtu/hr	--	1.0	24	2,190	8,760	C1
	Flare: Field	001212	NG	239	--	--	1.600	MMBtu/hr	--	1.0	24	2,190	8,760	
	Flare: Field	001211	NG	239	--	--	1.600	MMBtu/hr	--	1.0	24	2,190	8,760	
	Hot Oil Heater #1	001214	NG	80	--	--	3.500	MMBtu/hr	--	1.0	24	2,190	8,760	C2
	Heater #1	113985	NG	80	--	--	2.000	MMBtu/hr	--	1.0	24	2,190	8,760	
	Heater #2	113987	NG	80	--	--	2.000	MMBtu/hr	--	1.0	24	2,190	8,760	
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	12'd x 12'h	ft	10,000	Gallons	--	1.0	24	2,190	8,760	D
	Flotation Cell: Tank 2	001220	--	--	12'd x 12'h	ft	10,000	Gallons	--	1.0	24	2,190	8,760	
	HC Storage Tank	001217	--	--	10'd x 12'h	ft	7,050	Gallons	--	1.0	24	2,190	8,760	
Loading Station	NGL Loading Station	008669	--	--	--	--	7.140	k-gallons/hour	--	1.0	3	4	18	E
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	<u>3,287</u> 3,199	comp. leak-path	--	--	--	1.0	24	2,190	8,760	G
	Connections	100883	--	--	<u>15,299</u> 14,685	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Pr. Relief Dev.	100886	--	--	<u>51</u> 50	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Compressor Seals	100885	--	--	<u>16</u> 14	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Pump Seals	100884	--	--	5	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
					Clp total: <u>18,658</u> 17,953									
Emissions (Venting)	Wells -- Pipelines	100903	--	--	--	--	10	MMscf/year	--	1.0	24	2,190	8,760	G
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	680	MMscf/year	--	1.0	24	2,190	8,760	H
Solvent Usage**	Solvent Process Operations	008680	--	--	--	--	0.092	gal/hr(non-photochem)	1.0	6	548	2,190	I	
Permit Exempt but federally Significant unit	Hot Oil Heater #2	394789	--	--	--	--	2.000	MMBtu/hr	--	1.0	24	2,190	8,760	C2

**Table 5.1-3 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7 R8**  
**Non-IC Engines Daily Emissions**

Equipment Category	Description		NO <sub>x</sub> lb/day	ROC lb/day	CO lb/day	SO <sub>x</sub> lb/day	PM lb/day	PM <sub>10</sub> lb/day	PM <sub>2.5</sub> lb/day	GHG lb/day
Combustion - External	Flare: Field	001215	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001212	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001211	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Hot Oil Heater #1	001214	3.02	0.45	24.95	1.15	0.63	0.63	0.63	9,836
	Heater #1	113985	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
	Heater #2	113987	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	0.21	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.21	--	--	--	--	--	--
	HC Storage Tank	001217	--	0.19	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	<del>25.40</del> <b>25.79</b>	--	--	--	--	--	--
	Connections	100883	--	<del>27.34</del> <b>28.49</b>	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	<del>8.84</del> <b>9.05</b>	--	--	--	--	--	--
	Compressor Seals	100885	--	<del>0.80</del> <b>0.91</b>	--	--	--	--	--	--
	Pump Seals	100884	--	0.15	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	186.00	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	52.13	--	--	--	--	--	--
Solvent Usage**	Solvent Process Operations	008680	--	2.21	--	--	--	--	--	--
Permit Exempt but federally Significant unit	Hot Oil Heater #2	394789	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,620.80

**Table 5.1-4 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7 R8**  
**Non-IC Engines Annual Emissions**

Equipment Category	Description		NO <sub>x</sub> TPY	ROC TPY	CO TPY	SO <sub>x</sub> TPY	PM TPY	PM <sub>10</sub> TPY	PM <sub>2.5</sub> TPY	GHG TPY
Combustion - External	Flare: Field	001215	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001212	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001211	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Hot Oil Heater #1	001214	0.55	0.08	4.55	0.21	0.11	0.11	0.11	1,795.14
	Heater #1	113985	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
	Heater #2	113987	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	0.04	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.04	--	--	--	--	--	--
	HC Storage Tank	001217		0.03	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	<del>4.58</del> <b>4.71</b>	--	--	--	--	--	--
	Connections	100883	--	<del>4.99</del> <b>5.20</b>	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	<del>1.62</del> <b>1.65</b>	--	--	--	--	--	--
	Compressor Seals	100885	--	<del>0.15</del> <b>0.17</b>	--	--	--	--	--	--
	Pump Seals	100884	--	0.03	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	33.95	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	9.51	--	--	--	--	--	--
Solvent Usage**	Solvent Process Operations	008680	--	0.40	--	--	--	--	--	--
Permit Exempt but federally Significant unit	Hot Oil Heater #2	394789	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80



**Table 5.4-2 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7-R8**  
**Non-IC Engines Hazardous Air Pollutant Emissions (TYP)**

Equipment Category	Description	Device ID	Acetaldehyde	Acrolein	Benzene	Ethylbenzene	Formaldehyde	Hexane	Naphthalene	PAHs	Toluene	Xylenes	Arsenic	Beryllium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium
Combustion - External	Flare: Field	001215	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Flare: Field	001212	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Flare: Field	001211	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Hot Oil Heater #1	001214	6.28E-05	3.94E-05	1.17E-04	1.39E-04	2.48E-04	9.20E-05	4.38E-06	1.46E-06	5.34E-04	3.97E-04	2.92E-06	1.75E-07	1.61E-05	2.04E-05	1.23E-06	5.55E-06	3.80E-06	3.07E-05	3.50E-07
	Heater #1	113985	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07
	Heater #2	113987	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	1.08E-03	--	--	2.12E-03	--	--	6.33E-04	--	--	--	--	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	--	1.08E-03	--	--	2.12E-03	--	--	6.33E-04	--	--	--	--	--	--	--	--	--	--
	HC Storage Tank	001217	--	--	8.14E-04	--	--	1.59E-03	--	--	4.75E-04	--	--	--	--	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	--	3.08E-04	--	--	3.04E-02	--	--	--	--	--	--	--	--	--	--	--	--	--
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	<u>1.66E-02</u> <u>1.53E-02</u>	--	--	<u>2.24E-01</u> <u>2.08E-01</u>	--	--	--	--	--	--	--	--	--	--	--	--	--
	Connections	100883	--	--	<u>1.87E-02</u> <u>1.69E-02</u>	--	--	<u>2.54E-01</u> <u>2.29E-01</u>	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	--	<u>5.15E-03</u> <u>5.37E-03</u>	--	--	<u>7.00E-02</u> <u>7.28E-02</u>	--	--	--	--	--	--	--	--	--	--	--	--	--
	Compressor Seals	100885	--	--	<u>4.73E-04</u> <u>5.41E-04</u>	--	--	<u>6.42E-03</u> <u>7.34E-03</u>	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pump Seals	100884	--	--	<u>8.85E-05</u>	--	--	<u>1.20E-03</u>	--	--	--	--	--	--	--	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	--	1.10E-01	--	--	1.50E+00	--	--	--	--	--	--	--	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Solvent Usage**	Solvent Process Operations	008680	--	--	2.01E-02	--	--	--	--	2.01E-02	2.01E-02	--	--	--	--	--	--	--	--	--	--
<b>Non-IC Engines Total HAPs (TPY):</b>			<b>9.96E-04</b>	<b>2.85E-04</b>	<b>1.78E-01</b> <b>1.75E-01</b>	<b>2.92E-02</b>	<b>2.39E-02</b>	<b>2.09E+00</b> <b>2.05E+00</b>	<b>2.30E-04</b>	<b>6.32E-05</b>	<b>2.42E-02</b>	<b>2.16E-02</b>	<b>1.03E-05</b>	<b>6.16E-07</b>	<b>5.64E-05</b>	<b>7.18E-05</b>	<b>4.31E-06</b>	<b>1.95E-05</b>	<b>1.33E-05</b>	<b>1.08E-04</b>	<b>1.23E-06</b>

**Table 5.2**

**SoCalGas La Goleta Plant: Part 70/Permit to Operate 9584-R7-R8  
Facility Permitted Potential to Emit (FPTE)**

A. Daily (lb/day)

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	527.35	1,000.74	7,163.97	19.89	30.38	30.38	30.38	181,246
Combustion – External	17.45	1.56	62.95	7.19	2.21	2.21	2.21	34,568
HC Liquid Storage Tanks	--	0.61	--	--	--	--	--	--
Loading Station	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	<del>62.26</del> <b>64.38</b>	--	--	--	--	--	--
Emissions (Venting)	--	186.00	--	--	--	--	--	--
Glycol Unit	--	52.13	--	--	--	--	--	--
Solvent Usage**	--	2.21	--	--	--	--	--	--
<b>Total:</b>	<b>544.80</b>	<del>1,360.61</del> <b>1362.73</b>	<b>7,226.92</b>	<b>27.08</b>	<b>32.60</b>	<b>32.60</b>	<b>32.60</b>	<b>215,813</b>

B. Annual (TPY)

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	93.31	182.42	1,306.80	3.65	5.35	5.35	5.35	33,000
Combustion – External	3.18	0.28	11.49	1.31	0.40	0.40	0.40	6,309
HC Liquid Storage Tanks	--	0.11	--	--	--	--	--	--
Loading Station	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	<del>11.36</del> <b>11.75</b>	--	--	--	--	--	--
Emissions (Venting)	--	33.95	--	--	--	--	--	--
Glycol Unit	--	9.51	--	--	--	--	--	--
Solvent Usage**	--	0.40	--	--	--	--	--	--
<b>Total:</b>	<b>96.50</b>	<del>238.20</del> <b>238.59</b>	<b>1,318.29</b>	<b>4.96</b>	<b>5.76</b>	<b>5.76</b>	<b>5.76</b>	<b>39,309</b>

**Appendix B.9 – Requested Update Items 10 & 11**

Item	Permit Section	Action
10	Table 5.4-2A	Correct IC engines #2 - #9 styrene and toluene emissions, as the emissions are currently swapped (toluene emissions listed as styrene and vise-versa).
11	Table 5.4-3	Update the total HAP emissions to reflect the changes from fugitive component updates, and the IC engines #2 - #9 styrene and toluene emission updates.

**Table 5.4-2 A**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584- R7 R8**  
**IC Engines Hazardous Air Pollutant Emissions (TYP)**

Equipment Category	Description	Device ID	Acetaldehyde	Acrolein	Benzene	1,3-Butadiene	Carbon tetrachloride	Chlorobenzene	Chloroform	1,2-Dichloroethane	Ethylbenzene	Ethylene dibromide	Ethylhexane	Formaldehyde	Hexane	Hydrogen Chloride	Methanol	Methylglyoxal	Naphthalene	PAHs (not incl. naphthalene)	Propylene oxide	Propylene Oxide	1,1,2-Trichloroethane	Styrene	Toluene	Vinyl chloride	Xylenes	Acetylene	Calcium	Chromium	Lead	Manganese	Mercury	Nickel	Selenium					
Internal Combustion Engines - Controlled	#2: Ingersoll-Rand LVG-82	001199	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--				
	#3: Ingersoll-Rand LVG-82	001200	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--			
	#4: Ingersoll-Rand LVG-82	001201	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	#5: Ingersoll-Rand LVG-82	001202	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	#6: Ingersoll-Rand KVG-62	001203	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	#7: Ingersoll-Rand KVG-62	001204	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	#8: Ingersoll-Rand KVG-62	001205	6.01E-02	1.67E-01	2.78E-03	--	--	--	--	--	--	--	--	1.10E-02	--	7.42E-02	--	1.08E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--			
	#9: Cooper-Bessemer GMV-10C	001209	2.10E-01	2.13E-01	5.13E-02	--	--	--	--	--	--	--	--	2.22E+00	--	1.09E-01	--	5.13E-03	--	--	--	--	4.43E-03	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Micro-turbine generators	#1: Capstone C60	107543	1.41E-04	2.25E-05	4.23E-05	1.51E-06	--	--	--	1.13E-04	--	--	--	2.50E-03	--	--	--	4.58E-06	3.17E-06	--	1.02E-04	--	--	--	4.58E-04	--	2.25E-04	--	--	--	--	--	--	--	--	--	--	--	
#2: Capstone C60		107544	1.41E-04	2.25E-05	4.23E-05	1.51E-06	--	--	--	1.13E-04	--	--	--	2.50E-03	--	--	--	4.58E-06	3.17E-06	--	1.02E-04	--	--	--	4.58E-04	--	2.25E-04	--	--	--	--	--	--	--	--	--	--	--		
#3: Capstone C60		107545	1.41E-04	2.25E-05	4.23E-05	1.51E-06	--	--	--	1.13E-04	--	--	--	2.50E-03	--	--	--	4.58E-06	3.17E-06	--	1.02E-04	--	--	--	4.58E-04	--	2.25E-04	--	--	--	--	--	--	--	--	--	--	--		
#4: Capstone C60		107546	1.41E-04	2.25E-05	4.23E-05	1.51E-06	--	--	--	1.13E-04	--	--	--	2.50E-03	--	--	--	4.58E-06	3.17E-06	--	1.02E-04	--	--	--	4.58E-04	--	2.25E-04	--	--	--	--	--	--	--	--	--	--	--		
Emergency Fire Pumps	#12A: Cummins V-378-F2	008666	5.93E-05	2.57E-06	1.41E-05	1.65E-05	--	1.51E-08	--	8.25E-07	--	--	--	1.31E-04	2.04E-06	1.41E-05	--	--	1.49E-06	2.74E-06	--	--	--	--	7.95E-06	--	3.21E-06	1.21E-07	1.14E-07	4.54E-08	6.28E-07	2.35E-07	1.51E-07	2.95E-07	1.67E-07	1.67E-07				
	#13A: Cummins V-378-F2	008668	5.93E-05	2.57E-06	1.41E-05	1.65E-05	--	1.51E-08	--	8.25E-07	--	--	--	1.31E-04	2.04E-06	1.41E-05	--	--	1.49E-06	2.74E-06	--	--	--	--	7.95E-06	--	3.21E-06	1.21E-07	1.14E-07	4.54E-08	6.28E-07	2.35E-07	1.51E-07	2.95E-07	1.67E-07	1.67E-07				
<b>Total for Permitted Engines</b>			<b>6.32E-01</b>	<b>1.38E+00</b>	<b>7.10E-02</b>	<b>3.90E-05</b>	<b>0.00E+00</b>	<b>3.03E-08</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>4.52E-04</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>2.31E+00</b>	<b>4.07E-06</b>	<b>2.82E-05</b>	<b>6.29E-01</b>	<b>0.00E+00</b>	<b>1.27E-02</b>	<b>1.82E-05</b>	<b>0.00E+00</b>	<b>4.08E-04</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>5.61E-03</b>	<b>4.85E-03</b>	<b>0.00E+00</b>	<b>9.08E-04</b>	<b>2.42E-07</b>	<b>2.27E-07</b>	<b>9.08E-08</b>	<b>1.26E-06</b>	<b>4.69E-07</b>	<b>3.03E-07</b>	<b>5.91E-07</b>	<b>3.33E-07</b>		
Internal Combustion Engines -Permit exempt but federally significant units	#4A: Waukesha VRG220U	001221	6.11E-03	5.76E-03	3.46E-03	1.45E-03	3.88E-05	2.83E-05	3.00E-05	2.78E-05	5.43E-05	4.66E-05	2.47E-05	2.47E-05	4.49E-02	--	--	6.70E-03	9.02E-05	2.13E-04	9.61E-05	2.85E-05	--	5.54E-05	3.35E-05	2.61E-05	1.22E-03	1.57E-05	4.27E-04	--	--	--	--	--	--	--	--	--		
	#5A: Waukesha VRG220U	001222	6.11E-03	5.76E-03	3.46E-03	1.45E-03	3.88E-05	2.83E-05	3.00E-05	2.78E-05	5.43E-05	4.66E-05	2.47E-05	2.47E-05	4.49E-02	--	--	6.70E-03	9.02E-05	2.13E-04	9.61E-05	2.85E-05	--	5.54E-05	3.35E-05	2.61E-05	1.22E-03	1.57E-05	4.27E-04	--	--	--	--	--	--	--	--	--	--	
<b>Total for Permit Exempt Engines</b>			<b>1.22E-02</b>	<b>1.15E-02</b>	<b>6.92E-03</b>	<b>2.90E-03</b>	<b>7.75E-05</b>	<b>5.65E-05</b>	<b>6.00E-05</b>	<b>5.56E-05</b>	<b>1.09E-04</b>	<b>9.33E-05</b>	<b>4.95E-05</b>	<b>4.95E-05</b>	<b>8.98E-02</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>1.34E-02</b>	<b>1.80E-04</b>	<b>4.25E-04</b>	<b>1.92E-04</b>	<b>5.69E-05</b>	<b>0.00E+00</b>	<b>1.11E-04</b>	<b>6.70E-05</b>	<b>5.21E-05</b>	<b>2.44E-03</b>	<b>3.14E-05</b>	<b>8.54E-04</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>	<b>0.00E+00</b>
<b>IC Engines Total HAPs (TPY):</b>			<b>6.44E-01</b>	<b>1.39E+00</b>	<b>7.79E-02</b>	<b>2.94E-03</b>	<b>7.75E-05</b>	<b>5.65E-05</b>	<b>6.00E-05</b>	<b>5.56E-05</b>	<b>5.61E-04</b>	<b>9.33E-05</b>	<b>4.95E-05</b>	<b>4.95E-05</b>	<b>2.40E+00</b>	<b>4.07E-06</b>	<b>2.82E-05</b>	<b>6.42E-01</b>	<b>1.80E-04</b>	<b>1.32E-02</b>	<b>2.10E-04</b>	<b>5.69E-05</b>	<b>4.08E-04</b>	<b>1.11E-04</b>	<b>6.70E-05</b>	<b>5.21E-05</b>	<b>6.04E-02</b>	<b>3.14E-05</b>	<b>1.76E-03</b>	<b>2.42E-07</b>	<b>2.27E-07</b>	<b>9.08E-08</b>	<b>1.26E-06</b>	<b>4.69E-07</b>	<b>3.03E-07</b>	<b>5.91E-07</b>	<b>3.33E-07</b>			

**Table 5.4-3**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584- R7 R8**  
**Total Hazardous Air Pollutant Emissions (TYP)**

Facility	Permit #	Acetaldehyde	Acrolein	Benzene	1,3-Butadiene	Carbon tetrachloride	Chlorobenzene	Chloroform	1,2-Dichloroethane	Ethylbenzene	Ethylene dibromide	Ethylene dichloride	Ethylhexane dichloride	Formaldehyde	Hexane	Hydrogen Chloride	Methanol	Methylacetylene	Naphthalene	PAHs (total, naphthalene)	Propylene dichloride	Propylene oxide	1,1,2,2-Tetrahaloethane	1,1,2-Trichloroethane	Styrene	Toluene	Vinyl acetate	Xylenes	Arsenic	Beryllium	Cadmium	Chromium	Cobalt	Lead	Manganese	Mercury	Nickel	Selenium	Other - All HAPs	
01734 - La Goleta	PTO-9584-R7 R8	6.45E-01	1.39E+00	2.66E-04	2.94E-03	7.75E-05	5.65E-05	6.00E-05	5.56E-05	2.99E-02	9.33E-05	4.95E-05	4.95E-05	2.42E-00	2.00E-00	2.82E-05	6.42E-01	1.80E-04	1.34E-02	2.74E-04	5.69E-05	4.08E-04	1.11E-04	6.70E-05	6.61E-02	2.88E-02	3.14E-05	2.34E-02	1.05E-05	6.16E-07	5.67E-05	7.19E-05	4.31E-06	1.26E-06	2.00E-05	1.36E-05	1.08E-04	1.56E-06	2.61E-00	7.56E+00

**Appendix B.10 – Requested Update Items 12 & 13**

Item	Permit Section	Action
12	Table 10.4-1 Table 10.4-2	Update the PPTE and FPTE to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
13	Table 10.4-3	Correct typo in Table 10.4-3, which states the Facility Federal PTE for ROC is 277.34 TPY to the correct value of 227.34 TPY.

**Table 10.4-1  
Permitted Potential to Emit (PPTE)**

	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
	Part 70/District PTO 9584- R6.8- La Goleta						
lb/day	544.80	<del>1,360.61</del> <b>1,362.73</b>	7,226.92	27.08	32.60	32.60	32.60
tons/year	96.50	<del>238.20</del> <b>238.59</b>	1,318.29	4.96	5.76	5.76	5.76

**Table 10.4-2  
Facility Potential to Emit (FPTE)**

	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
	Part 70/District PTO 9584- R6.8- La Goleta						
lb/day	544.80	<del>1,360.61</del> <b>1,362.73</b>	7,226.92	27.08	32.60	32.60	32.60
tons/year	96.50	<del>238.20</del> <b>238.59</b>	1,318.29	4.96	5.76	5.76	5.76

**Table 10.4-3  
Facility ‘Federal’ Potential to Emit**

	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	TSP	PM <sub>10</sub>	PM <sub>2.5</sub>
	Part 70/District PTO 9584- R6.8- La Goleta						
lb/day	592.25	1,301.07	7,279.58	28.05	33.29	33.29	33.29
tons/year	105.16	<del>277.34</del> <b>227.34</b>	1,327.89	5.14	5.88	5.88	5.88

**Appendix B.11 – Requested Update Items 14 - 22**

Item	Permit Section	Action
14	10.5	Update Equipment Lists to include operator IDs on items # 1.3, 1.4, 3.2, 3.6, 3.7, 3.8, 6.5, 9, 10.2, and 10.4
15	10.5	Update Equipment List item #2.3 to correct the number of underground gas storage wells to thirteen.
16	10.5	Update Equipment List items #6.1-6.4 to include updated component leak-path information from Quarter 3, 2023 compliance check, which includes Todd 2 Well (ATC 13394-01) fugitive components (See Appendix C for details).
17	10.5	Correct item #6.2 to correct the quantity of compressors and seals to 8 compressors with 16 seals as stated elsewhere in the permit (in sections 9.C.6 and 9.D.14).
18	10.5	Correct item #15 to intermittent bleed devices, not intermediate bleed devices. Update item #15 device description.
19	10.5	Update Permitted Equipment List to remove the nine well casing vents because the associated wells have been plugged and abandoned (Bishop 1, Chase and Bryce 1, Edwards 1, Goleta 1, Miller 3, Miller 6, Miller 7, Miller 9, More 3).
20	10.5	Update the Equipment List to include the revisions from ATC 13394-01 by adding well casing vent Todd 2.
21	10.5	Update Exempt Equipment List to include vessels (spherical gas scrubber, liquids separator, and 2 inlet gas scrubbers).
22	10.5	Update De-permitted Equipment List to add the nine well casing vents because the associated wells have been plugged and abandoned (Bishop 1, Chase and Bryce 1, Edwards 1, Goleta 1, Miller 3, Miller 6, Miller 7, Miller 9, More 3).

**10.5 Equipment List**

**A. PERMITTED EQUIPMENT**

**1.3 Gas/Glycol Contactor**

<i>Device ID #</i>	<b>100892</b>	<i>Device Name</i>	<b>Gas/Glycol Contactor</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Braun & Lacy	<i>Operator ID</i>	<b><u>V-153 with V-154</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	One (1) unit 4.5’ dia. By 38.9’ long; with a control tank 16’ dia. By 17.67’ Long.		

### 1.4 Gas/Glycol Contactors

<b>Device ID #</b>	<b>100873</b>	<b>Device Name</b>	<b>Gas/Glycol Contactors</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>V-120/ V-123; V-121/ V-124,</u></b>
<i>Manufacturer</i>	Braun & Lacy	<i>Operator ID</i>	<b><u>V-122/ V-125</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Three (3) units each 4.5' dia. by 37.8' long; with three (3) control tanks, each 16" dia. by 15.25' long.		

### 2.3 Underground Gas Storage Wells

<b>Device ID #</b>	<b>008670</b>	<b>Device Name</b>	<b>Underground Gas Storage Wells</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>13.00</u> <del>14.00</del> Total Wells</b>
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	<b><u>13</u> 14 Total Wells</b>		

### 3.2 Condensate Surge Tank

<b>Device ID #</b>	<b>100887</b>	<b>Device Name</b>	<b>Condensate Surge Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>V-133</u></b>
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	3' dia by 32' tall.		



### 3.6 Methanol Storage Tank

<i>Device ID #</i>	<b>100899</b>	<i>Device Name</i>	<b>Methanol Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	500.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	<b><u>T-15</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Pressurized with natural gas; with pressure relief valve.		

### 3.7 Flotation Cell #2

<i>Device ID #</i>	<b>001220</b>	<i>Device Name</i>	<b>Flotation Cell #2</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	10000.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	<b><u>T-2</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	12' dia. By 12' height.		

### 3.8 Liquid Hydrocarbon Storage Tank

<i>Device ID #</i>	<b>001217</b>	<i>Device Name</i>	<b>Liquid Hydrocarbon Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	7050.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	<b><u>T-3</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	10' dia. by 12' height.		

### 6.1 Valves – Accessible

<i>Device ID #</i>	<b>100882</b>	<i>Device Name</i>	<b>Valves - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>3,287.00</u></b> <del>3199.00</del> Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Valves		

### 6.2 Compressor Seals - Accessible

<i>Device ID #</i>	<b>100885</b>	<i>Device Name</i>	<b>Compressor Seals - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>16.00</u></b> <del>14.00</del> Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	<del>8</del> <b>7</b> compressors with 2 seals each,		

### 6.3 Connections - Accessible

<i>Device ID #</i>	<b>100883</b>	<i>Device Name</i>	<b>Connections - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>15299.00</u></b> <del>14685.00</del> Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Connections		

### 6.5 Pressure Relief Devices – Uncontrolled

<i>Device ID #</i>	<b>100883</b>	<i>Device Name</i>	<b>Pressure Relief Devices - Uncontrolled</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	<b><u>51.00</u></b> <del>50.00</del>
<i>Manufacturer</i>		<i>Operator ID</i>	Component Leakpath
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

### 10.2 Glycol/Gas Separator

<i>Device ID #</i>	<b>100878</b>	<i>Device Name</i>	<b>Glycol/Gas Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Southwest Welding	<i>Operator ID</i>	<b><u>V-226</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	4' dia. By 10.2' tall.		

### 10.3 Horizontal Separator

<i>Device ID #</i>	<b>100888</b>	<i>Device Name</i>	<b>Horizontal Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	900.00 Gallons
<i>Manufacturer</i>	King	<i>Operator ID</i>	<b><u>V-1003</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	With a separate bottom barrel. <b><u>V-1003B</u></b>		

**15 Intermittent Intermediate-Bleed Devices**

<i>Device ID #</i>	<b>391978</b>	<i>Device Name</i>	<b><u>Intermittent Intermediate Bleed Devices</u></b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	10 Devices, <b><u>Subject to \$95668 of CARB O&amp;G GHG Regulation.</u></b>		

**16.1 Bishop 1 Well Casing Vent**

<i>Device ID #</i>	<b>393360</b>	<i>Device Name</i>	<b>Bishop 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303398
<i>Location Note</i>	Gas Storage Well.		
<i>Device Description</i>	Intermittent open well casing vent. Subject to \$95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.2 Chase and Bryce 1 Well Casing Vent**

<i>Device ID</i>	<b>39336</b>	<i>Device</i>	<b>Chase and Bryce 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	08303399
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	Gas Storage Well.		
<i>Device Description</i>	Intermittent open well casing vent. Subject to \$95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.3 – Edwards 1 Well Casing Vent**

<b><i>Device ID #</i></b>	<b>393362</b>	<b><i>Device Name</i></b>	<b>Edwards 1 Well Casing Vent</b>
<i>Rated Heat input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	08303401
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device</i>	Gas Storage Well.		
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.5 – Goleta 1 Well Casing Vent**

<b><i>Device ID #</i></b>	<b>393364</b>	<b><i>Device Name</i></b>	<b>Goleta 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	083034
<i>Location Note</i>			
<i>Device</i>	Gas Storage Well.		
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.8 – Miller 3 Well Casing Vent**

<b><i>Device ID #</i></b>	<b>39336</b>	<b><i>Device Name</i></b>	<b>Miller 3 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	0830340
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device</i>	Gas Storage Well.		
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**6.10 – Miller 6 Well Casing Vent**

<i>Device ID #</i>	<b>393370</b>	<i>Device Name</i>	<b>Miller 6 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	0830340
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device</i>	Gas Storage Well.		
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.11 – Miller 7 Well Casing Vent**

<i>Device ID #</i>	<b>393371</b>	<i>Device Name</i>	<b>Miller 7 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	0830341
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	Gas Storage		
<i>Device</i>			
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.13 – Miller 9 Well Casing Vent**

<i>Device ID #</i>	<b>393373</b>	<i>Device Name</i>	<b>Miller 9 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	0832075
<i>Location Note</i>	Gas Storage		
<i>Device</i>			
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.18 ~~More 3 Well Casing Vent~~**

<b><i>Device ID #</i></b>	<b>393378</b>	<b><i>Device Name</i></b>	<b><del>More 3 Well Casing Vent</del></b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	08303414
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>			
<i>Device</i>	Gas Storage Well.		
<i>Description</i>	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery. Serial Number is the Well API Number		

**16.11 Todd 2 Well Casing Vent**

<b><u><i>Device ID #</i></u></b>	<b><u>393379</u></b>	<b><u><i>Device Name</i></u></b>	<b><u>Todd 2 Well Casing Vent</u></b>
<b><u><i>Rated Heat input</i></u></b>		<b><u><i>Physical Size</i></u></b>	
<b><u><i>Manufacturer</i></u></b>		<b><u><i>Operator ID</i></u></b>	<b><u>0408322891</u></b>
<b><u><i>Model</i></u></b>		<b><u><i>Serial Number</i></u></b>	
<b><u><i>Location Note</i></u></b>			
<b><u><i>Device</i></u></b>	<b><u>Gas Storage Well.</u></b>		
<b><u><i>Description</i></u></b>	<b><u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery</u></b> <b><u>Serial Number is the Well API Number</u></b>		

**A. EXEMPT EQUIPMENT**

**8 Lube Oil Tanks**

<b><i>Device ID #</i></b>	<b>100912</b>	<b><i>Device Name</i></b>	<b>Lube Oil Tanks</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	500.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	<b><u>T-5 and T-6</u></b>
<i>Model</i>		<i>Serial Number</i>	
<i>Part 70 Insg?</i>	Yes	<i>District Rule Exemption:</i> 202.V.s Storage Of Lubricating Oils	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	500 gallon capacity each. Also included in Part 70 Insignificant		
<i>Description</i>	Activities		

**14 Spherical Scrubber**

<u>Device ID #</u>	<u>Device Name</u>	<u>Spherical Scrubber</u>
<u>Rated Heat Input</u>	<u>Physical Size</u>	<u>60” dia.</u>
<u>Manufacturer</u>	<u>Operator ID</u>	<u>V-0632</u>
<u>Model</u>	<u>Serial Number</u>	
<u>Part 70 Insg?</u> <b>Yes</b>	<u>District Rule Exemption:</u> <u>201.A No Potential To Emit Air</u>	
<u>Location Note</u>	<u>SoCalGas - La Goleta</u>	
<u>Device Description</u>	<u>Spherical Gas Scrubber, welded construction</u>	

**15 Separator**

<u>Device ID #</u>	<u>Device Name</u>	<u>Separator</u>
<u>Rated Heat Input</u>	<u>Physical Size</u>	<u>5’ dia. By 13’-8” long</u>
<u>Manufacturer</u>	<u>Operator ID</u>	<u>V-73</u>
<u>Model</u>	<u>Serial Number</u>	
<u>Part 70 Insg?</u> <b>Yes</b>	<u>District Rule Exemption:</u> <u>201.A No Potential To Emit Air</u>	
<u>Location Note</u>	<u>SoCalGas - La Goleta</u>	
<u>Device Description</u>	<u>Liquids Separator, welded construction</u>	

**16 Inlet Gas Scrubber**

<u>Device ID #</u>	<u>Device Name</u>	<u>Inlet Gas Scrubber</u>
<u>Rated Heat Input</u>	<u>Physical Size</u>	<u>42” dia. By 15’-3” S/S</u>
<u>Manufacturer</u>	<u>Operator ID</u>	<u>V-161</u>
<u>Model</u>	<u>Serial Number</u>	
<u>Part 70 Insg?</u> <b>Yes</b>	<u>District Rule Exemption:</u> <u>201.A No Potential To Emit Air</u>	
<u>Location Note</u>	<u>SoCalGas - La Goleta</u>	
<u>Device Description</u>	<u>Inlet Gas Scrubber, gas to compressors intake, vertical, welded construction</u>	



**17 Inlet Gas Scrubber**

<u>Device ID #</u>		<u>Device Name</u>	<u>Inlet Gas Scrubber</u>
<u>Rated Heat Input</u>		<u>Physical Size</u>	<u>42” dia. By 15’-3” S/S</u>
<u>Manufacturer</u>		<u>Operator ID</u>	<u>V-144</u>
<u>Model</u>		<u>Serial Number</u>	
<u>Part 70 Insg?</u>	<u>Yes</u>	<u>District Rule Exemption:</u> <u>201.A No Potential To Emit Air</u>	
<u>Location Note</u>	<u>SoCalGas - La Goleta</u>		
<u>Device Description</u>	<u>Inlet Gas Scrubber, gas to compressors intake, vertical, welded construction</u>		

**B. DE-PERMITTED EQUIPMENT**

**3. Bishop 1 Well Casing Vent**

<u>Device ID #</u>	<u>393360</u>	<u>Device Name</u>	<u>Bishop 1 Well Casing Vent</u>
<u>Rated Heat Input</u>			
<u>Manufacturer</u>		<u>Physical Size</u>	
<u>Model</u>		<u>Operator ID</u>	
<u>Location Note</u>		<u>Serial Number</u>	<u>08303398</u>
<u>Device Description</u>	<u>Gas Storage Well.</u> <u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u> <u>Serial Number is the Well API Number</u>		

**4. Chase and Bryce 1 Well Casing Vent**

<u>Device ID #</u>	<u>393361</u>	<u>Device Name</u>	<u>Chase and Bryce 1 Well Casing Vent</u>
<u>Rated Heat Input</u>			
<u>Manufacturer</u>		<u>Physical Size</u>	
<u>Model</u>		<u>Operator ID</u>	
<u>Location Note</u>		<u>Serial Number</u>	<u>08303399</u>
<u>Device Description</u>	<u>Gas Storage Well.</u> <u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u> <u>Serial Number is the Well API Number</u>		

**5. Edwards 1 Well Casing Vent**

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<b><u>Device ID #</u></b>	<b><u>393362</u></b>	<b><u>Device Name</u></b>	<b><u>Edwards 1 Well Casing Vent</u></b>
<b><u>Rated Heat Input</u></b>		<b><u>Physical Size</u></b>	
<b><u>Manufacturer</u></b>		<b><u>Operator ID</u></b>	<b><u>08303401</u></b>
<b><u>Model</u></b>		<b><u>Serial Number</u></b>	
<b><u>Location Note</u></b>	<b><u>Gas Storage Well.</u></b>		
<b><u>Device Description</u></b>	<b><u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u></b>		
	<b><u>Serial Number is the Well API Number</u></b>		

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**6. Goleta 1 Well Casing Vent**

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<b><u>Device ID #</u></b>	<b><u>393364</u></b>	<b><u>Device Name</u></b>	<b><u>Goleta 1 Well Casing Vent</u></b>
<b><u>Rated Heat Input</u></b>		<b><u>Physical Size</u></b>	
<b><u>Manufacturer</u></b>		<b><u>Operator ID</u></b>	<b><u>08303403</u></b>
<b><u>Model</u></b>		<b><u>Serial Number</u></b>	
<b><u>Location Note</u></b>	<b><u>Gas Storage Well.</u></b>		
<b><u>Device Description</u></b>	<b><u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u></b>		
	<b><u>Serial Number is the Well API Number</u></b>		

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**7. Miller 3 Well Casing Vent**

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<b><u>Device ID #</u></b>	<b><u>393367</u></b>	<b><u>Device Name</u></b>	<b><u>Miller 3 Well Casing Vent</u></b>
<b><u>Rated Heat Input</u></b>		<b><u>Physical Size</u></b>	
<b><u>Manufacturer</u></b>		<b><u>Operator ID</u></b>	<b><u>08303406</u></b>
<b><u>Model</u></b>		<b><u>Serial Number</u></b>	
<b><u>Location Note</u></b>	<b><u>Gas Storage Well.</u></b>		
<b><u>Device Description</u></b>	<b><u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u></b>		
	<b><u>Serial Number is the Well API Number</u></b>		

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**8. Miller 6 Well Casing Vent**

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<u>Device ID #</u>	<u>393370</u>	<u>Device Name</u>	<u>Miller 6 Well Casing Vent</u>
<u>Rated Heat Input</u>		<u>Physical Size</u>	
<u>Manufacturer</u>		<u>Operator ID</u>	
<u>Model</u>		<u>Serial Number</u>	<u>08303409</u>
<u>Location Note</u>			
<u>Device Description</u>	<u>Gas Storage Well.</u>		
	<u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u>		
	<u>Serial Number is the Well API Number</u>		

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**9. Miller 7 Well Casing Vent**

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<u>Device ID #</u>	<u>393371</u>	<u>Device Name</u>	<u>Miller 7 Well Casing Vent</u>
<u>Rated Heat Input</u>		<u>Physical Size</u>	
<u>Manufacturer</u>		<u>Operator ID</u>	
<u>Model</u>		<u>Serial Number</u>	<u>08303410</u>
<u>Location Note</u>			
<u>Device Description</u>	<u>Gas Storage Well.</u>		
	<u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u>		
	<u>Serial Number is the Well API Number</u>		

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**10. Miller 9 Well Casing Vent**

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<u>Device ID #</u>	<u>393373</u>	<u>Device Name</u>	<u>Miller 9 Well Casing Vent</u>
<u>Rated Heat Input</u>		<u>Physical Size</u>	
<u>Manufacturer</u>		<u>Operator ID</u>	
<u>Model</u>		<u>Serial Number</u>	<u>08320754</u>
<u>Location Note</u>			
<u>Device Description</u>	<u>Gas Storage Well-</u>		
	<u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u>		
	<u>Serial Number is the Well API Number</u>		

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**11. More 3 Well Casing Vent**

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<b><u>Device ID #</u></b>	<b><u>393378</u></b>	<b><u>Device Name</u></b>	<b><u>More 3 Well Casing Vent</u></b>
<b><u>Rated Heat Input</u></b>		<b><u>Physical Size</u></b>	
<b><u>Manufacturer</u></b>		<b><u>Operator ID Serial Number</u></b>	<b><u>08303414</u></b>
<b><u>Model</u></b>			
<b><u>Location Note</u></b>			
<b><u>Device Description</u></b>	<b><u>Gas Storage Well.</u></b>		
	<b><u>Intermittent open well casing vent. Subject to §95668 of CARB O&amp;G GHG Regulation. Not connected to Vapor Recovery.</u></b>		
	<b><u>Serial Number is the Well API Number</u></b>		

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## APPENDIX C – EMISSION CALCULATIONS



SoCalGas - La Goleta: IC Engines PTE

IC Engines Emission Factors

Equipment Category	Device ID#	Equipment: Plant ID & Description	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM10	PM2.5	GHG	Units	References
Internal Combustion Engine -Controlled	001199	#2: Ingersoll-Rand LVG-82:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	c
	001200	#3: Ingersoll-Rand LVG-82:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001201	#4: Ingersoll-Rand LVG-82:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001202	#5: Ingersoll-Rand LVG-82:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001203	#6: Ingersoll-Rand KVG-62:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001204	#7: Ingersoll-Rand KVG-62:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001205	#8: Ingersoll-Rand KVG-62:	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	
	001209	#9: Cooper-Bessemer GMV-10C	0.46	2.495	10.125	0.0129	0.048	0.048	0.048	117.1	lb/MMBtu	
	Micro-turbine generators	107543	#1: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.1	
107544		#2: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.1	lb/MMBtu	
107545		#3: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.1	lb/MMBtu	
107546		#4: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.1	lb/MMBtu	
Emergency Fire Pumps	008666	#12A: Cummins V-378-F2	14.08	1.12	3.03	0.006	0.99	0.99	0.99	117.1	g/bhp-hr	
	008668	#13A: Cummins V-378-F2	14.08	1.12	3.03	0.006	0.99	0.99	0.99	117.1	g/bhp-hr	
Internal Combustion Engines - Permit exempt but federally significant units	001221	#4A: Waukesha VRG220U	1.905	0.103	1.6	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	I
	001222	#5A: Waukesha VRG220U	1.905	0.103	1.6	0.0129	0.014	0.014	0.014	117.1	lb/MMBtu	

**IC Engines Short-Term Permitted Emissions**

Equipment Category	Device ID#	Equipment: Plant ID & Description	NO <sub>x</sub>		ROC		CO		SO <sub>x</sub>		PM		PM10		PM2.5		GHG		
			lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	
Internal Combustion Engine -Controlled	001199	#2: Ingersoll-Rand LVG-82:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001200	#3: Ingersoll-Rand LVG-82:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001201	#4: Ingersoll-Rand LVG-82:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001202	#5: Ingersoll-Rand LVG-82:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001203	#6: Ingersoll-Rand KVG-62:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001204	#7: Ingersoll-Rand KVG-62:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	001205	#8: Ingersoll-Rand KVG-62:	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516	
	-Uncontrolled	001209	#9: Cooper-Bessemer GMV-10C	4.61	110.62	25.00	600.00	101.45	2,434.86	0.13	3.10	0.48	11.54	0.48	11.54	0.48	11.54	1173.34	28,160
		107543	#1: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260
Micro-turbine generators	107544	#2: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260	
	107545	#3: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260	
	107546	#4: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260	
	008666	#12A: Cummins V-378-F2	4.12	8.25	0.33	0.66	0.89	1.78	0.00	0.00	0.29	0.58	0.29	0.58	0.29	0.58	108.90	218	
Emergency Fire Pumps	008668	#13A: Cummins V-378-F2	4.12	8.25	0.33	0.66	0.89	1.78	0.00	0.00	0.29	0.58	0.29	0.58	0.29	0.58	108.90	218	
<b>Total for Permitted Engines</b>			<b>29.53</b>	<b>527.35</b>	<b>42.30</b>	<b>1,000.74</b>	<b>300.13</b>	<b>7,163.97</b>	<b>0.83</b>	<b>19.89</b>	<b>1.80</b>	<b>30.38</b>	<b>1.80</b>	<b>30.38</b>	<b>1.80</b>	<b>30.38</b>	<b>7,751.55</b>	<b>181,246</b>	
Internal Combustion Engines - Permit exempt but federally significant units	001221	#4A: Waukesha VRG220U	0.95	22.86	0.05	1.24	0.80	19.20	0.01	0.15	0.01	0.17	0.01	0.17	0.01	0.17	58.55	1,405	
	001222	#5A: Waukesha VRG220U	0.95	22.86	0.05	1.24	0.80	19.20	0.01	0.15	0.01	0.17	0.01	0.17	0.01	0.17	58.55	1,405	
	<b>Total for Permit Exempt Engines</b>			<b>1.91</b>	<b>45.72</b>	<b>0.10</b>	<b>2.47</b>	<b>1.60</b>	<b>38.40</b>	<b>0.01</b>	<b>0.31</b>	<b>0.01</b>	<b>0.34</b>	<b>0.01</b>	<b>0.34</b>	<b>0.01</b>	<b>0.34</b>	<b>117.10</b>	<b>2,810.40</b>
<b>IC Engines Total</b>			<b>31.44</b>	<b>573.07</b>	<b>42.40</b>	<b>1,003.22</b>	<b>301.73</b>	<b>7202.37</b>	<b>0.84</b>	<b>20.20</b>	<b>1.81</b>	<b>30.72</b>	<b>1.81</b>	<b>30.72</b>	<b>1.81</b>	<b>30.72</b>	<b>7,868.65</b>	<b>184,056</b>	

**IC Engines Long-Term Permitted Emissions**

Equipment Category	Device ID#	Equipment: Plant ID & Description	NO <sub>x</sub>		ROC		CO		SO <sub>x</sub>		PM		PM10		PM2.5		GHG		
			TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	
Internal Combustion Engine -Controlled	001199	#2: Ingersoll-Rand LVG-82:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001200	#3: Ingersoll-Rand LVG-82:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001201	#4: Ingersoll-Rand LVG-82:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001202	#5: Ingersoll-Rand LVG-82:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001203	#6: Ingersoll-Rand KVG-62:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001204	#7: Ingersoll-Rand KVG-62:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001205	#8: Ingersoll-Rand KVG-62:	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	-Uncontrolled	001209	#9: Cooper-Bessemer GMV-10C	5.05	20.19	27.37	109.50	111.09	444.36	0.14	0.57	0.53	2.11	0.53	2.11	0.53	2.11	1,285	5,139
		107543	#1: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412
Micro-turbine generators	107544	#2: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	107545	#3: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	107546	#4: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	008666	#12A: Cummins V-378-F2	0.01	0.04	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.27	1.09	
Emergency Fire Pumps	008668	#13A: Cummins V-378-F2	0.01	0.04	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.27	1.09	
<b>Total for Permitted Engines</b>			<b>23.33</b>	<b>93.31</b>	<b>45.60</b>	<b>182.42</b>	<b>326.70</b>	<b>1,306.80</b>	<b>0.91</b>	<b>3.65</b>	<b>1.34</b>	<b>5.35</b>	<b>1.34</b>	<b>5.35</b>	<b>1.34</b>	<b>5.35</b>	<b>8,250</b>	<b>33,000</b>	
Internal Combustion Engines - Permit exempt but federally significant units	001221	#4A: Waukesha VRG220U	1.04	4.17	0.06	0.23	0.88	3.50	0.01	0.03	0.01	0.03	0.01	0.03	0.01	0.03	64.11	256.4	
	001222	#5A: Waukesha VRG220U	1.04	4.17	0.06	0.23	0.88	3.50	0.01	0.03	0.01	0.03	0.01	0.03	0.01	0.03	64.11	256.4	
	<b>Total for Permit Exempt Engines</b>			<b>2.09</b>	<b>8.34</b>	<b>0.11</b>	<b>0.45</b>	<b>1.75</b>	<b>7.01</b>	<b>0.01</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>128.22</b>	<b>512.90</b>
<b>IC Engines Total</b>			<b>25.41</b>	<b>101.66</b>	<b>45.71</b>	<b>182.87</b>	<b>328.45</b>	<b>1,313.80</b>	<b>0.92</b>	<b>3.70</b>	<b>1.36</b>	<b>5.41</b>	<b>1.36</b>	<b>5.41</b>	<b>1.36</b>	<b>5.41</b>	<b>8,378</b>	<b>33,513</b>	



**IC Engines Operating Equipment Description**

Equipment Category	Description	Device ID	Device Specifications			Usage Data		Maximum Operating Schedule					References	
			Fuel	ppmv	Size	units	capacity	units	load	hr	day	qrt		year
Internal Combustion Engines -Controlled  -uncontrolled	#2: Ingersoll-Rand LVG-82	001199	NG	80	650	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	c
	#3: Ingersoll-Rand LVG-82	001200	NG	80	650	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#4: Ingersoll-Rand LVG-82	001201	NG	80	650	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#5: Ingersoll-Rand LVG-82	001202	NG	80	650	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#6: Ingersoll-Rand KVG-62	001203	NG	80	660	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#7: Ingersoll-Rand KVG-62	001204	NG	80	660	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#8: Ingersoll-Rand KVG-62	001205	NG	80	660	bhp	7.30	MMBtu/hr	1	1.0	24	2,190	8,760	
	#9: Cooper-Bessemer GMV-10C	001209	NG	80	110	bhp	10.02	MMBtu/hr	1	1.0	24	2,190	8,760	
	Micro-Turbine Generators	#1: Capstone C60	107543	NG	80	60	kW	0.804	MMBtu/hr	1	1.0	24	2,190	
#2: Capstone C60		107544	NG	80	60	kW	0.804	MMBtu/hr	1	1.0	24	2,190	8,760	
#3: Capstone C60		107545	NG	80	60	kW	0.804	MMBtu/hr	1	1.0	24	2,190	8,760	
#4: Capstone C60		107546	NG	80	60	kW	0.804	MMBtu/hr	1	1.0	24	2,190	8,760	
Emergency Fire Pumps	#12A: Cummins V-378-F2	008666	D	15	133	bhp	0.930	MMBtu/hr	1	1.0	2	5	20	
	#13A: Cummins V-378-F2	008668	D	15	133	bhp	0.930	MMBtu/hr	1	1.0	2	5	20	
Internal Combustion Engines -Permit Exempt but Federally Significant	#4A: Waukesha VRG220U	001221	NG	80	48	bhp	0.50	MMBtu/hr	1	1.0	24	2,190	8,760	I
	#5A: Waukesha VRG220U	001222	NG	80	48	bhp	0.50	MMBtu/hr	1	1.0	24	2,190	8,760	

SoCalGas - La Goleta: Non-IC Engine Equipment PTE

Non-IC Engine Equipment Emission Factors

Equipment Category	Description	Device ID	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG	Units	References*
Combustion- External	Flare: Field	001215	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.1	lb/MMBtu	C1
	Flare: Field	001212	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.1	lb/MMBtu	
	Flare: Field	001211	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.1	lb/MMBtu	
	Hot Oil Heater #1	001214	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.1	lb/MMBtu	C2
	Heater #1	113985	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.1	lb/MMBtu	
	Heater #2	113987	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.1	lb/MMBtu	
HC Liquid Storage tanks	Flotation Cell: Tank 1	001219	--	calc's are based on AP43, Ch.7	--	--	--	--	--	--	AP-42, Ch.7 Eqn. Units- Multiple Para.	D
	Flotation Cell: Tank 2	001220	--		--	--	--	--	--	--		
	HC Storage Tank	001217	--		--	--	--	--	--	--		
Loading station	NGL Loading Station	008669	--	2.7557	--	--	--	--	--	--	lb/1000 gal	E
Fugitive components (Gas/Light Liquid Service)	Valves	100882	--	0.008	--	--	--	--	--	--	lb/day-clp	G
	Connections	100883	--	0.002	--	--	--	--	--	--	lb/day-clp	
	Pr. Relief Dev.	100886	--	0.177	--	--	--	--	--	--	lb/day-clp	
	Compressor Seals	100885	--	0.057	--	--	--	--	--	--	lb/day-clp	
	Pump Seals	100884	--	0.03	--	--	--	--	--	--	lb/day-clp	
Emissions (Venting)	Wells -- Pipelines	100903	--	6789	--	--	--	--	--	--	lb/MMscf	G
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	--	--	--	--	--	H
Solvent usage	Solvent Process Operations	008680	--	4.0000	--	--	--	--	--	--	lb/gal	I
Permit Exempt But Federally significant	Hot Oil Heater #2	394789	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.1	lb/MMBtu	C2

**Non-IC Engines Daily Emissions**

Equipment Category	Description	Device ID	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
			lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day	lb/day
Combustion- External	Flare: Field	001215	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001212	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001211	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Hot Oil Heater #1	001214	3.02	0.45	24.95	1.15	0.63	0.63	0.63	9,836
	Heater #1	113985	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
	Heater #2	113987	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
HC Liquid Storage tanks	Flotation Cell: Tank 1	001219	--	0.21	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.21	--	--	--	--	--	--
	HC Storage Tank	001217	--	0.19	--	--	--	--	--	--
Loading station	NGL Loading Station	008669	--	55.09	--	--	--	--	--	--
Fugitive components (Gas/Light Liquid Service)	Valves	100882	--	25.79	--	--	--	--	--	--
	Connections	100883	--	28.49	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	9.05	--	--	--	--	--	--
	Compressor Seals	100885	--	0.91	--	--	--	--	--	--
	Pump Seals	100884	--	0.15	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	186.00	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	52.13	--	--	--	--	--	--
Solvent usage	Solvent Process Operations	008680	--	2.21	--	--	--	--	--	--
Permit Exempt But federally significant	Hot Oil Heater #2	394789	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,620.80

**Non-IC Engines Annual Emissions**

Equipment Category	Description	ID#	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
			TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
Combustion- External	Flare: Field	001215	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001212	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001211	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Hot Oil Heater #1	001214	0.55	0.08	4.55	0.21	0.11	0.11	0.11	1,795.14
	Heater #1	113985	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
	Heater #2	113987	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
HC Liquid Storage tanks	Flotation Cell: Tank 1	001219	--	0.04	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.04	--	--	--	--	--	--
	HC Storage Tank	001217	--	0.03	--	--	--	--	--	--
Loading station	NGL Loading Station	008669	--	0.17	--	--	--	--	--	--
Fugitive components (Gas/Light Liquid Service)	Valves	100882	--	4.71	--	--	--	--	--	--
	Connections	100883	--	5.20	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	1.65	--	--	--	--	--	--
	Compressor Seals	100885	--	0.17	--	--	--	--	--	--
	Pump Seals	100884	--	0.03	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	33.95	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	9.51	--	--	--	--	--	--
Solvent usage	Solvent Process Operations	008680	--	0.40	--	--	--	--	--	--
Permit Exempt But federally significant	Hot Oil Heater #2	394789	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80

**Non- IC Engines Operating Emissions Unit Description**

Equipment Category	Description	Device ID#	Device Specifications			Units	Usage Data			Maximum Operating Schedule				References
			Fuel	ppmv S	Size		Capacity	Units	Load	hr	day	qtr.	year	
Combustion - External	Flare: Field	001215	NG	239	--	--	1.6	MMBtu/hr	--	1.0	24	2,190	8,760	C1
	Flare: Field	001212	NG	239	--	--	1.6	MMBtu/hr	--	1.0	24	2,190	8,760	
	Flare: Field	001211	NG	239	--	--	1.6	MMBtu/hr	--	1.0	24	2,190	8,760	
	Hot Oil Heater #1	001214	NG	80	--	--	3.5	MMBtu/hr	--	1.0	24	2,190	8,760	C2
	Heater #1	113985	NG	80	--	--	2	MMBtu/hr	--	1.0	24	2,190	8,760	
	Heater #2	113987	NG	80	--	--	2	MMBtu/hr	--	1.0	24	2,190	8,760	
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	12'd x 12'h	ft	10,000	Gallons	--	1.0	24	2,190	8,760	D
	Flotation Cell: Tank 2	001220	--	--	12'd x 12'h	ft	10,000	Gallons	--	1.0	24	2,190	8,760	
	HC Storage Tank	001217	--	--	10'd x 12'h	ft	7,050	Gallons	--	1.0	24	2,190	8,760	
Loading Station	NGL Loading Station	008669	--	--	--	--	7.14	k-gallons/hour	--	1.0	3	4	18	E
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	3,287	comp. leak-path	--	--	--	1.0	24	2,190	8,760	G
	Connections	100883	--	--	15,299	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Pr. Relief Dev.	100886	--	--	51	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Compressor Seals	100885	--	--	16	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
	Pump Seals	100884	--	--	5	comp. leak-path	--	--	--	1.0	24	2,190	8,760	
				Clp total:	18,658									
Emissions (Venting)	Wells -- Pipelines	100903	--	--	--	--	10	MMscf/year	--	1.0	24	2,190	8,760	G
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	680	MMscf/year	--	1.0	24	2,190	8,760	H
Solvent Usage**	Solvent Process Operations	008680	--	--	--	--	0.092	gal/hr(non-photochem)	1.0	6	548	2,190	I	
Permit Exempt but federally Significant unit	Hot Oil Heater #2	394789	--	--	--	--	2	MMBtu/hr	--	1.0	24	2,190	8,760	C2

**SoCalGas - La Goleta: Permitted & Federal Potential to Emit**

**Facility Potential to Emit (FPTE) Daily (lb/day)**

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	527.35	1,000.74	7,163.97	19.89	30.38	30.38	30.38	181,246
Combustion – External	17.45	1.56	62.95	7.19	2.21	2.21	2.21	34,568
HC Liquid Storage Tanks	--	0.61	--	--	--	--	--	--
Loading Station	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	64.38	--	--	--	--	--	--
Emissions (Venting)	--	186.00	--	--	--	--	--	--
Glycol Unit	--	52.13	--	--	--	--	--	--
Solvent Usage	--	2.21	--	--	--	--	--	--
<b>Total:</b>	<b>544.80</b>	<b>1,362.73</b>	<b>7,226.92</b>	<b>27.08</b>	<b>32.60</b>	<b>32.60</b>	<b>32.60</b>	<b>215,813</b>

**Federal Potential to Emit (PTE-Fed) lb/day**

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	573.07	1,003.21	7,202.37	20.20	30.72	30.72	30.72	181,246
Combustion – External	19.18	1.82	77.21	7.85	2.57	2.57	2.57	40,189
HC Liquid Storage Tanks	--	0.61	--	--	--	--	--	--
Loading Station	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	0.00	--	--	--	--	--	--
Emissions (Venting)	--	186.00	--	--	--	--	--	--
Glycol Unit	--	52.13	--	--	--	--	--	--
Solvent Usage	--	2.21	--	--	--	--	--	--
<b>Total:</b>	<b>592.25</b>	<b>1,301.07</b>	<b>7,279.58</b>	<b>28.05</b>	<b>33.29</b>	<b>33.29</b>	<b>33.29</b>	<b>221,434</b>

**Facility Potential to Emit (FPTE) Annual (TPY)**

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	93.31	182.42	1,306.80	3.65	5.35	5.35	5.35	33,000
Combustion – External	3.18	0.28	11.49	1.31	0.40	0.40	0.40	6,309
HC Liquid Storage Tanks	--	0.11	--	--	--	--	--	--
Loading Station	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	11.75	--	--	--	--	--	--
Emissions (Venting)	--	33.95	--	--	--	--	--	--
Glycol Unit	--	9.51	--	--	--	--	--	--
Solvent Usage	--	0.40	--	--	--	--	--	--
<b>Total:</b>	<b>96.50</b>	<b>238.59</b>	<b>1,318.29</b>	<b>4.96</b>	<b>5.76</b>	<b>5.76</b>	<b>5.76</b>	<b>39,309</b>

**Federal Potential to Emit (PTE-Fed) Annual (TPY)**

Equipment Category	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG
Combustion – IC Engines	101.66	182.87	1,313.80	3.7	5.41	5.41	5.41	33,513
Combustion – External	3.50	0.33	14.09	1.43	0.47	0.47	0.47	7,334
HC Liquid Storage Tanks	--	0.11	--	--	--	--	--	--
Loading Station	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	0.00	--	--	--	--	--	--
Emissions (Venting)	--	33.95	--	--	--	--	--	--
Glycol Unit	--	9.51	--	--	--	--	--	--
Solvent Usage	--	0.4	--	--	--	--	--	--
<b>Total:</b>	<b>105.16</b>	<b>227.34</b>	<b>1,327.89</b>	<b>5.14</b>	<b>5.88</b>	<b>5.88</b>	<b>5.88</b>	<b>40,847</b>



**IC Engines Operating Equipment Description**

Equipment Category	Description	Device ID	Device Specifications			Usage Data		Maximum Operating Schedule				References
			Fuel	ppmv S	Size units	capacity units	load	hr	day	qtr	year	
Internal Combustion Engines Controlled	#2 Ingersoll-Rand LVG-82	001199	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	A
	#3 Ingersoll-Rand LVG-82	001200	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
	#4 Ingersoll-Rand LVG-82	001201	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
	#5 Ingersoll-Rand LVG-82	001202	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
	#6 Ingersoll-Rand LVG-82	001203	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
	#7 Ingersoll-Rand LVG-82	001204	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
Uncontrolled	#8 Ingersoll-Rand LVG-82	001205	NG	80	650 bhp	7.30 MMBtu/hr	1	1.0	24	2 190	8 760	
	#9 Cooper-Bessemer CBM-VTC	001206	NG	80	1100 bhp	10.00 MMBtu/hr	1	1.0	24	2 190	8 760	
Micro-Turbine Generators	#1 Capstone C60	107543	NG	80	60 kW	0.804 MMBtu/hr	1	1.0	24	2 190	8 760	B
	#2 Capstone C60	107544	NG	80	60 kW	0.804 MMBtu/hr	1	1.0	24	2 190	8 760	
	#3 Capstone C60	107545	NG	80	60 kW	0.804 MMBtu/hr	1	1.0	24	2 190	8 760	
	#4 Capstone C60	107546	NG	80	60 kW	0.804 MMBtu/hr	1	1.0	24	2 190	8 760	
Emergency Fire Pumps	#12A Cummins V-378 F2	008656	D	16	133 bhp	0.900 MMBtu/hr	1	1.0	2	5	20	
	#12B Cummins V-378 F2	008659	D	16	133 bhp	0.900 MMBtu/hr	1	1.0	2	5	20	
Internal Combustion Engines #Rem'd/Exempt/Not Regularly Significant	#8A Ingersoll-Rand VRS220U	001211	NG	80	48 bhp	0.50 MMBtu/hr	1	1.0	24	2 190	8 760	I
	#8A Ingersoll-Rand VRS220U	001222	NG	80	48 bhp	0.50 MMBtu/hr	1	1.0	24	2 190	8 760	

**Non- IC Engines Hazardous Air Pollutant Emission Factors**

Equipment Category	Description	Device ID	Acetaldehyde	Acrylonitrile	Benzene	Diethylbenzene	Formaldehyde	Hexane	Naphthalene	PAHs (total, 14 Naphthalene)	Toluene	Vinylbenzene	Xylenes	Acetic	Beryllium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium	EF (lb/TS)
Combustion- External	Flare: Field	001215	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF
	Flare: Field	001212	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF
	Flare: Field	001211	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF
	Hot Oil Heater #1	001214	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF
	Heater #1	113985	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF
Heater #2	113987	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	1b/MMSCF	
HC Liquid Storage tanks	Flotation Cell: Tank 1	001219	-	-	2.71E-02	-	-	5.31E-02	-	-	1.58E-02	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	Flotation Cell: Tank 2	001220	-	-	2.71E-02	-	-	5.31E-02	-	-	1.58E-02	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	HC Storage Tank	001217	-	-	2.71E-02	-	-	5.31E-02	-	-	1.58E-02	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
Loading station	NGL Loading Station	008669	-	-	1.79E-03	-	-	1.77E-01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
Fugitive components (Gas/Light Liquid Service)	Valves	100882	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	Connections	100883	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	Pr. Relief Dev.	100886	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	Compressor Seals	100885	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
	Pump Seals	100884	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
Emissions (Venting)	Wells -- Pipelines	100903	-	-	3.25E-03	-	-	4.41E-02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC
Glycol Unit	Flash-tank Unit	100873	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NA
Solvent usage	Solvent Process Operations	008680	-	-	5.00E-02	-	-	-	-	-	5.00E-02	5.00E-02	-	-	-	-	-	-	-	-	-	-	1b/lb-ROC

**Non-IC Engines Annual Hazardous Air Pollutant Emissions (TPY)**

Equipment Category	Description	Device ID	Acetaldehyde	Acrylonitrile	Benzene	Diethylbenzene	Formaldehyde	Hexane	Naphthalene	PAHs (total, 14 Naphthalene)	Toluene	Vinylbenzene	Xylenes	Acetic	Beryllium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium	EF (lb/TS)
Combustion- External	Flare: Field	001215	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07	1.80E-07	1.80E-07
	Flare: Field	001212	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07	1.80E-07	1.80E-07
	Flare: Field	001211	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07	1.80E-07	1.80E-07
	Hot Oil Heater #1	001214	6.28E-05	3.94E-05	1.17E-04	1.39E-04	2.48E-04	9.20E-05	4.38E-06	1.48E-06	5.34E-04	3.97E-04	2.92E-06	1.75E-07	1.61E-05	2.04E-05	1.23E-06	5.55E-06	3.80E-06	3.07E-05	3.50E-07	3.50E-07	3.50E-07
	Heater #1	113985	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07	2.00E-07	2.00E-07
Heater #2	113987	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07	2.00E-07	2.00E-07	
HC Liquid Storage tanks	Flotation Cell: Tank 1	001219	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Flotation Cell: Tank 2	001220	0.00E+00	0.00E+00	1.08E-03	0.00E+00	0.00E+00	2.12E-03	0.00E+00	0.00E+00	6.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	HC Storage Tank	001217	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	1.59E-03	0.00E+00	0.00E+00	4.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Loading station	NGL Loading Station	008669	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	3.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fugitive components (Gas/Light Liquid Service)	Valves	100882	0.00E+00	0.00E+00	1.53E-02	0.00E+00	0.00E+00	2.08E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Connections	100883	0.00E+00	0.00E+00	1.69E-02	0.00E+00	0.00E+00	2.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Pr. Relief Dev.	100886	0.00E+00	0.00E+00	5.37E-03	0.00E+00	0.00E+00	7.28E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Compressor Seals	100885	0.00E+00	0.00E+00	5.41E-04	0.00E+00	0.00E+00	7.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Pump Seals	100884	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Emissions (Venting)	Wells -- Pipelines	100903	0.00E+00	0.00E+00	1.10E-01	0.00E+00	0.00E+00	1.50E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Glycol Unit	Flash-tank Unit	100873	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Solvent usage	Solvent Process Operations	008680	0.00E+00	0.00E+00	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-02	2.01E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
<b>Non- IC Engines Total HAPs (TPY)</b>			<b>9.96E-04</b>	<b>2.85E-04</b>	<b>1.75E-01</b>	<b>2.93E-02</b>	<b>2.39E-02</b>	<b>2.05E+00</b>	<b>2.30E-04</b>	<b>6.32E-05</b>	<b>2.42E-02</b>	<b>2.16E-02</b>	<b>1.03E-05</b>	<b>6.16E-07</b>	<b>5.64E-05</b>	<b>7.18E-05</b>	<b>4.31E-06</b>	<b>1.95E-05</b>	<b>1.33E-05</b>	<b>1.08E-04</b>	<b>1.23E-06</b>		



### Non- IC Engines Operating Emissions Unit Description

Equipment Category	Description	Device ID#	Device Specifications			Units	Usage Data		Load	Maximum Operating Schedule				References
			Fuel	ppmv S	Size		Capacity	Units		hr	day	qtr	year	
Combustion - External	Flare: Field	001215	NG	239	--	--	1.6	MMBtu/hr	--	1	24	2,190	8,760	C1
	Flare: Field	001212	NG	239	--	--	1.6	MMBtu/hr	--	1	24	2,190	8,760	
	Flare: Field	001211	NG	239	--	--	1.6	MMBtu/hr	--	1	24	2,190	8,760	
	Hot Oil Heater #1	001214	NG	80	--	--	3.9	MMBtu/hr	--	1	24	2,190	8,760	C2
	Heater #1	113985	NG	80	--	--	2	MMBtu/hr	--	1	24	2,190	8,760	
	Heater #2	113987	NG	80	--	--	2	MMBtu/hr	--	1	24	2,190	8,760	
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	12'd x 12'h	ft	10,000	Gallons	--	1	24	2,190	8,760	D
	Flotation Cell: Tank 2	001220	--	--	12'd x 12'h	ft	10,000	Gallons	--	1	24	2,190	8,760	
	HC Storage Tank	001217	--	--	10'd x 12'h	ft	7,050	Gallons	--	1	24	2,190	8,760	
Loading Station	NGL Loading Station	008669	--	--	--	--	7.14	k-gallons/hour	--	1	3	4	18	E
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	3,287	comp. leak-path	--	--	--	1	24	2,190	8,760	G
	Connections	100883	--	--	15,299	comp. leak-path	--	--	--	1	24	2,190	8,760	
	Pr. Relief Dev.	100886	--	--	51	comp. leak-path	--	--	--	1	24	2,190	8,760	
	Compressor Seals	100885	--	--	16	comp. leak-path	--	--	--	1	24	2,190	8,760	
	Pump Seals	100884	--	--	5	comp. leak-path	--	--	--	1	24	2,190	8,760	
Emissions (Venting)	Wells -- Pipelines	100903	--	--	--	--	10	MMscf/year	--	1	24	2,190	8,760	G
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	680	MMscf/year	--	1	24	2,190	8,760	H
Solvent Usage	Solvent Process Operations	008680	--	--	--	--	0.092	gal/hr(non-photochem)	1	6	548	8,760	I	
Permit Exempt but federally Significant Unit	Hot Oil Heater #2	394789	--	--	--	--	2	MMBtu/hr	--	1	24	2,190	8,760	C2

**SoCalGas - La Goleta: Total Hazardous Air Pollutant Emissions (TPY)**

Pollutant	IC Engines (TPY)	Other Sources (TPY)	Total (TPY)
Acetaldehyde	6.44E-01	9.96E-04	6.45E-01
Acrolein	1.39E+00	2.85E-04	1.39E+00
Benzene	7.79E-02	1.75E-01	2.53E-01
1, 3-Butadiene	2.94E-03	–	2.94E-03
Carbon tetrachloride	7.75E-05	–	7.75E-05
Chlorobenzene	5.65E-05	–	5.65E-05
Chloroform	6.00E-05	–	6.00E-05
1, 3-Dichlororpropene	5.56E-05	–	5.56E-05
Ethylbenzene	5.61E-04	2.93E-02	2.99E-02
Ethylene dibromide	9.33E-05	–	9.33E-05
Ethylene dichloride	4.95E-05	–	4.95E-05
Ethylidene dichloride	4.95E-05	–	4.95E-05
Formaldehyde	2.40E+00	2.39E-02	2.42E+00
Hexane	4.07E-06	2.05E+00	2.05E+00
Hydrogen Chloride	2.82E-05	–	2.82E-05
Methanol	6.42E-01	–	6.42E-01
Methylene Chloride	1.80E-04	–	1.80E-04
Naphthalene	1.32E-02	2.30E-04	1.34E-02
PAHs	2.10E-04	6.32E-05	2.74E-04
Propylene dichloride	5.69E-05	–	5.69E-05
Propylene oxide	4.08E-04	–	4.08E-04
1,1,2,2-Tetrachloroethane	1.11E-04	–	1.11E-04
1,1,2-Trichloroethane	6.70E-05	–	6.70E-05
Styrene	5.21E-05	–	5.21E-05
Toluene	6.04E-02	2.42E-02	8.46E-02
Vinyl Chloride	3.14E-05	–	3.14E-05
Xylenes	1.76E-03	2.16E-02	2.34E-02
Arsenic	2.42E-07	1.03E-05	1.05E-05
Beryllium	-	6.16E-07	6.16E-07
Cadmium	2.27E-07	5.64E-05	5.67E-05
Chromium	9.09E-08	7.18E-05	7.19E-05
Cobalt	-	4.31E-06	4.31E-06
Lead	1.26E-06	–	1.26E-06
Manganese	4.69E-07	1.95E-05	2.00E-05
Mercury	3.03E-07	1.33E-05	1.36E-05
Nickel	5.91E-07	1.08E-04	1.08E-04
Selenium	3.33E-07	1.23E-06	1.56E-06
<b>Total HAP (TPY)</b>			<b>7.56E+00</b>

**APPENDIX D – CURRENT PERMIT**



air pollution control district  
SANTA BARBARA COUNTY

June 18, 2021

Certified Mail  
Return Receipt Requested

9205 8901 1220 3954 9842 43

Edward Wiegman  
Southern California Gas Company  
PO Box 818  
Goleta, CA 93116-0818

FID: 01734  
Permit: P7R 09584 - R7  
SSID: 05019

Re: Notice of Final Part 70 Permit Renewal / Reevaluation 09584 - R7 Issuance  
Fee Due: \$ 58,138

Dear Mr. Wiegman:

Enclosed is the final Part 70 Permit Renewal / Reevaluation (PT-70/Reeval) No. 09584 - R7 for the SoCal Gas La Goleta Stationary Source at 1171 More Ranch Road in Goleta.

Please carefully review the enclosed documents to ensure that they accurately describe your facility and that the conditions are acceptable to you.

You should become familiar with all District rules pertaining to your facility. This permit does not relieve you of any requirements to obtain authority or permits from other governmental agencies.

This permit requires you to:

- Pay a **fee** of \$58,138, which is due immediately and is considered late after 30 calendar days from the date stamped on the permit. Pursuant to District Rule 210.IV.B, no appeal shall be heard unless all fees have been paid. See the attached invoice for more information.
- Follow the conditions listed on your permit. Pay careful attention to the recordkeeping and reporting requirements.
- Ensure that a copy of the enclosed permit is posted or kept readily available near the permitted equipment.
- Promptly report changes in ownership, operator, or your mailing address to the District.

If you are not satisfied with the conditions of this permit, **you have thirty (30) calendar days from the date of this permit issuance notice to appeal this permit to the Air Pollution Control District Hearing Board** (ref: California Health and Safety Code, §42302.1). Any contact, discussions, or meetings with District staff regarding the terms of this permit during or after permit issuance do not constitute an appeal under Rule 209 or the California H&SC and will not stop or alter the 30-day appeal period. Only a formal application to the Hearing Board can initiate an appeal. You may contact the Clerk of the Hearing Board for specific information concerning appeal initiation and procedures.

Aeron Arlin Genet, Air Pollution Control Officer

Please include the facility identification (FID) and permit numbers as shown at the top of this letter on all correspondence regarding this permit. If you have any questions, please contact William Sarraf of my staff at (805) 961-8888.

Sincerely,

David Harris, Division Manager  
Engineering Division

enc: Final PT-70/Reeval 09584 - R7  
Final Permit Evaluation  
Invoice # P7R 09584 - R7

cc: La Goleta 01734 Project File  
Engr Chron File  
Accounting (Invoice only)  
James Menno (Cover letter only)  
William Sarraf (Cover letter only)

\\sbcapcd.org\shares\Groups\ENGR\WP\Oil&Gas\Major Sources\SSID 05019 So Cal Gas - La Goleta\Reevals\PTO 9584-R7\PT-70-Reeval 09584 R7 - Final Letter - 6-17-2021.docx



air pollution control district  
SANTA BARBARA COUNTY

Invoice: P7R 09584 - R7  
Date: 06/18/2021  
Terms: Net 30 Days

260 N. San Antonio Rd, Suite A  
Santa Barbara, CA 93110-1315

500000/6600/3282

# INVOICE

**BILL TO:**

**FACILITY:**

Edward Wiegman Southern California Gas Company (001102) PO Box 818 Goleta, CA 93116-0818	La Goleta 01734 1171 More Ranch Road Goleta
---	--

Permit: Part 70 Permit Renewal / Reevaluation (PT-70/Reeval) No. 09584 - R7

Fee Type: Permit Evaluation Fee (see the Fee Statement in your permit for a breakdown of the fees)

**Amount Due: \$ 58,138**

**REMIT PAYMENTS TO THE ABOVE ADDRESS**

Please indicate the invoice number P7R 09584 - R7  
on your remittance.

IF YOU HAVE ANY QUESTIONS REGARDING YOUR INVOICE PLEASE CONTACT  
OUR ADMINISTRATION DIVISION AT (805) 961-8800

The District charges \$25 for returned checks. Other penalties/fees may be incurred as a result of returned checks and late payment (see District Rule 210). Failure to pay this Invoice may result in the cancellation or suspension of your permit. Please notify the District regarding any changes to the above information



air pollution control district  
SANTA BARBARA COUNTY

**PERMIT to OPERATE 9584-R7  
and  
RENEWAL PART 70 OPERATING PERMIT 9584**

**LA GOLETA FACILITY  
SOUTHERN CALIFORNIA GAS COMPANY**

**1171 MORE ROAD  
GOLETA, CA 93117**

**OPERATOR**

**Southern California Gas Company**

**OWNERSHIP**

**Southern California Gas Company**

**Santa Barbara County  
Air Pollution Control District**

**June 2021**

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## ABBREVIATIONS/ACRONYMS

AP-42	USEPA's <i>Compilation of Emission Factors</i>
District	Santa Barbara County Air Pollution Control District
API	American Petroleum Institute
ASTM	American Society for Testing Materials
BACT	Best Available Control Technology
bpd	barrels per day (1 barrel = 42 gallons)
CAM	compliance assurance monitoring
CEMS	continuous emissions monitoring
CO	carbon monoxide
dscf	dry standard cubic foot
°F	degree Fahrenheit
gal	gallon
GHG	greenhouse gases
gr	grain
HAP	hazardous air pollutant (as defined by CAAA, Section 112(b))
H <sub>2</sub> S	hydrogen sulfide
I&M	inspection & maintenance
k	kilo (thousand)
l	liter
lb	pound
lbs/day	pounds per day
lbs/hr	pounds per hour
LACT	Lease Automatic Custody Transfer
LPG	liquid petroleum gas
M	mega (million)
MACT	Maximum Achievable Control Technology
MM	million
MW	molecular weight
NESHAP	National Emission Standards for Hazardous Pollutants
NO <sub>x</sub>	Oxides of nitrogen
NSPS	New Source Performance Standards
O <sub>2</sub>	oxygen
OCS	outer continental shelf
ppm(vd or w)	parts per million (volume dry or weight)
psia	pounds per square inch absolute
psig	pounds per square inch gauge
PM	particulate matter
PM <sub>10</sub>	particulate matter less than 10 µm in size
PM <sub>2.5</sub>	particulate matter less than 2.5 µm in size
PRD	pressure relief device
PTO	Permit to Operate
ROC	reactive organic compounds, same as VOC as used in this permit
RVP	Reid vapor pressure
scf	standard cubic foot
scfd (or scfm)	standard cubic feet per day (or per minute)
SIP	State Implementation Plan
SO <sub>x</sub>	Sulfur oxides
STP	standard temperature (60°F) and pressure (29.92 inches of mercury)
THC	Total hydrocarbons
tpy, TPY	tons per year
TVP	true vapor pressure
USEPA	United States Environmental Protection Agency
VE	visible emissions
VRS	vapor recovery system

## 1.0 Introduction

### 1.1 Purpose

General. The Santa Barbara County Air Pollution Control District (District) is responsible for implementing all applicable federal, state and local air pollution requirements that affect any stationary source of air pollution in Santa Barbara County. The federal requirements include regulations listed in the Code of Federal Regulations: 40 CFR Parts 50, 51, 52, 61, 63, 64, 68, 70 and 82. The State regulations may be found in the California Health & Safety Code, Division 26, Section 39000 et seq. The applicable local regulations can be found in the District's Rules and Regulations. This is a combined permitting action that covers both the Federal Part 70 permit renewal (*Part 70 Operating Permit 9584*) as well as the State Operating Permit (*Permit to Operate 9584*).

Santa Barbara County is designated as a non-attainment area for the state PM<sub>10</sub> ambient air quality standard. As of July 1, 2020, the County achieved attainment status for the ozone state ambient air quality standards.

Part 70 Permitting. This is the sixth renewal of the Part 70 Permit for the SoCalGas La Goleta facility, and satisfies the permit issuance requirements of the District's Part 70 Operating Permit program. The District's triennial permit reevaluation has been combined with this Part 70 Permit renewal. SoCalGas La Goleta Plant comprises the *SoCalGas – La Goleta* stationary source (SSID 5019), which is a major source for VOC<sup>1</sup>, NO<sub>x</sub> and CO. Conditions listed in this permit are based on federal, state or local rules and requirements. Sections 9.A, 9.B and 9.C of this permit are enforceable by the District, the USEPA and the public since these sections are federally enforceable under Part 70. Where any reference contained in Sections 9.A, 9.B or 9.C refers to any other part of this permit that part of the permit referred to is federally enforceable. Conditions listed in Section 9.D are "District-only" enforceable.

Pursuant to the stated aims of Title V of the CAAA of 1990 (i.e., the Part 70 operating permit program), this permit has been designed to meet two objectives. First, compliance with all conditions in this permit would ensure compliance with all federally enforceable requirements for the facility. Second, the permit is a comprehensive document to be used as a reference by the permittee, the regulatory agencies, and the public to assess compliance.

This reevaluation incorporates greenhouse gas emission calculations for the stationary source. These emissions establish baseline conditions under Rule 810, *Federal Prevention of Significant Deterioration*.

### 1.2 Facility Overview

- 1.2.1 Facility Overview: The La Goleta Stationary Source (SSID# 005019) is solely owned and operated by Southern California Gas Company (SoCalGas), a subsidiary of Sempra Energy, with the company regional headquarters located in Los Angeles, CA. The source, consisting of the La Goleta facility (FID 1734) includes a number of natural gas compressors, a dehydration unit, ancillary units and a large underground natural gas storage reservoir. It is located in Goleta with a street address of 1171 More Road, Goleta, CA 93117 (postal address is P.O. Box 818, Goleta,

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<sup>1</sup> VOC as defined in Regulation XIII has the same meaning as reactive organic compounds as defined in Rule 102. The term ROC shall be used throughout the remainder of this document, but where used in the context of the Part 70 regulation, the reader shall interpret the term as VOC.

CA 93116). For District regulatory purposes, the source location is in the Southern Zone of the Santa Barbara County<sup>2</sup>. Figure 1-1 provides a site map depicting the source location and the main emission units.

The La Goleta facility was constructed in the 1940s. It consists of 21 underground gas storage wells, a dehydration plant consisting of a tank farm, odorization equipment, methanol storage tank, and external combustion equipment including flares, as well as a number of gas-fired internal combustion (IC) engines driving natural gas compressors and pumps. The La Goleta facility is permitted to withdraw natural gas from its underground storage at the rate of 680 MMscf/day, while its HC liquid (condensate, dry) production is restricted to 125,000 gallons per year. The facility consists of the following operating systems:

- Underground Natural Gas Storage and Retrieval system
- Sand and moisture separator system
- Gas Dehydration system
- Natural gas compression (using IC engines) and cooling system
- Tank farm for brine/condensate removal and storage
- Flares and Flare Gas Sulfur Removal System
- Gas shipping and metering system
- Electrical system /Micro-turbines
- Safety system
- Emergency fire pumps

Natural gas of PUC quality is compressed, cooled and stored in an underground depleted gas reservoir. During heavy demand the gas is withdrawn from the reservoir, separated from sand/moisture, dehydrated, odorized and routed to pipelines.

1.2.2 Facility Permit Overview: Since the last Part 70 renewal in May 2018, the permits listed below have been issued to this facility. ATC 14159, issued on 11/19/2013 for an upgrade of the dehydration plant by installing new gas processing and condensate removal equipment, remains active. There has also been a reduction in the number of gas wells, well casing vents, pneumatic and bleed devices and fugitive components which have been depermitted in this permit renewal. Additionally, Hot Oil Heater #2 was re-categorized as exempt equipment. These equipment changes are reflected in the Equipment List (Attachment 10.5). Additionally,

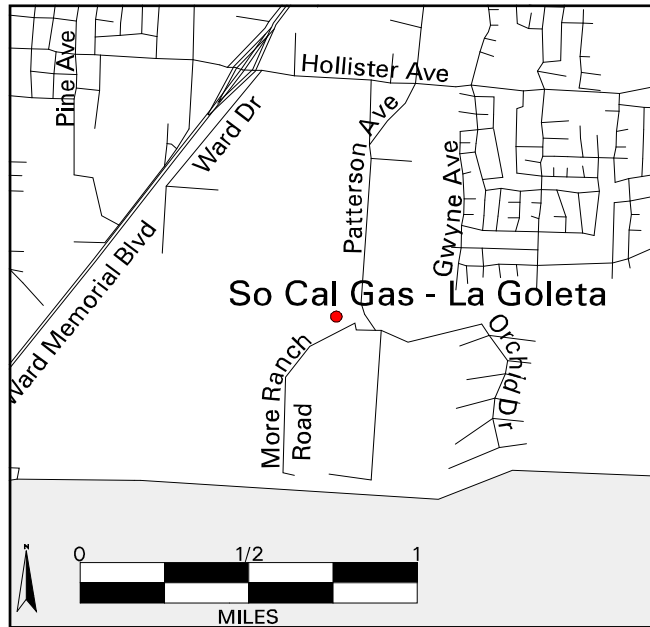
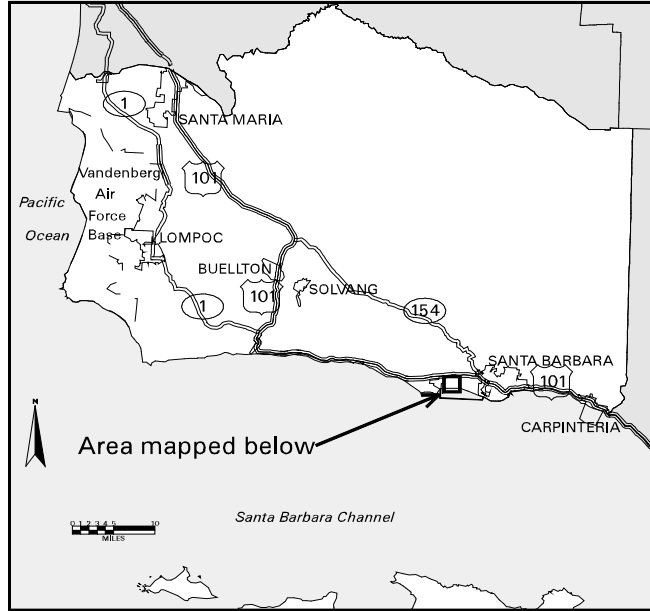
- ATC 15298 – Issued on 06/14/2019 for modifications Hot Oil Heater No. 1 to demonstrate compliance with Rule 361 emission standards.
- PTO 15298 – Issued on 10/08/2020 for operation of Hot Oil Heater No. 1.

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<sup>2</sup> District Rule 102, Definition: “Southern Zone”

**Figure 1.1 Location Map for SoCalGas La Goleta facility**

### Southern California Gas - La Goleta



### **1.3 Emission Sources**

Air pollutant emissions at the La Goleta facility come from the following equipment categories:

*Dehydration Plant Unit 14* - Consists of glycol gas dehydration units including glycol contactors, filters, rectifiers, electric pumps and heat exchangers; Plant Unit 14 also includes the following emissions units:

*Tank Farm Units* - Consists of flotation cells, hydrocarbon liquid storage tanks, brine water storage tank, methanol storage tank, pumps and a loading rack for hydrocarbon liquid (condensate) loading.

*Separators at Plant Unit 14* - Consists of high and low pressure separators and sand traps and the associated valves and flanges.

*Odorant Storage and Metering station at Unit 14* - Consists of an odorant storage tank, two pneumatically-driven odorant injection pumps, and two expansion tanks.

*External Combustion Equipment* – Consists of two (2) oil heaters, one of which is exempt from permit, two (2) gas preheaters and three (3) flares servicing the dehydration plant and the tank farm.

*Gas Venting* – Consists of gas vented through stacks during pipeline depressurization.

*Natural Gas Fired Compression Units* - Consists of eight large compressors driven by gas-fired IC engines.

*Natural Gas Fired Support Units* - Consists of two gas-fired IC engines powering air compressors, one gas-fired IC engine powering an emergency power generator, and four gas-fired micro turbines powering electrical generators.

*Diesel-Fired Units* – Consists of two IC engines that provide power to emergency fire pumps.

Section 4 of this permit provides the District's engineering analysis for these emission units. Section 5 describes the allowable emissions listed for each permitted equipment item and the total permitted emissions from all permitted equipment. Potential HAP emissions estimates are also described in Section 5.

A list of all equipment, their operator-provided IDs and individual unit ratings is provided in the Equipment list in Attachment 10.5. Permitted equipment, as well as, exempt equipment are included in the Attachment.

### **1.4 Emission Control Overview**

The following emission control techniques are employed at the facility:

- Use of a vapor recovery system to reduce ROC emissions from the hydrocarbon liquid storage tank by 95 per cent (weight basis) as stipulated by Rule 326.
- Use of submerged fill pipes on all tanker trucks to reduce loading rack ROC emissions;
- Use of a flare relief system to combust hydrocarbon gases that would otherwise be released directly to the atmosphere. Application of Rule 359 control measures are applied to reduce flare emissions.

- Non-selective catalytic reduction (NSCR) units serving seven of the eight engines driving gas compressors. Air-fuel ratio (AFR) controllers assist all seven of the NSCR-controlled units.
- Sulfur removal units using iron oxides and potassium permanganate to reduce H<sub>2</sub>S and mercaptans in the gaseous fuel going to the waste gas flares to permissible levels.
- Clean-burn technology controlling emissions from the lean burn engine which powers the largest gas compressor.
- Designed low-NO<sub>x</sub> emissions (approx. 10 ppmv) for the micro-turbines which are Air Resources Board certified for California's distributed generation program when fired on Public Utility Commission (PUC)-quality natural gas.
- Designed low-NO<sub>x</sub> emissions burner for hot oil heater #1.
- A Fugitive Hydrocarbon Inspection and Maintenance program for detecting and repairing leaks of hydrocarbons from piping components, i.e., valves, flanges and seals consistent with the requirements of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.

## **1.5 Offsets/Emission Reduction Credit Overview**

The La Goleta plant facility does not require emission offsets. However, it historically has provided NO<sub>x</sub> emission reduction credits to the Point Arguello Project's Gaviota facility.

NO<sub>x</sub> emission reductions are achieved by the installation of NSCR controls on seven gas compressors. These emission reduction credits are valid for the life of the Point Arguello project. The Point Arguello Project is currently in the process of being decommissioned. SoCalGas may not use these emission reduction credits for other projects. Section 7 of this permit describes these historical emission reduction credits in detail.

## **1.6 Part 70 Operating Permit Overview**

- 1.6.1. Federally-Enforceable Requirements: All federally enforceable requirements are listed in 40 CFR Part 70.2 (*Definitions*) under "applicable requirements". These include all SIP-approved District Rules, all conditions in the District-issued Authority to Construct permits and all conditions applicable to major sources under federally promulgated rules and regulations. All these requirements are enforceable by the public under CAAA. (*See Tables 3.1 and 3.2 for a list of federally enforceable requirements*).
- 1.6.2. Insignificant Emissions Units: Insignificant emission units are defined under District Rule 1301 as any regulated air pollutant emitted from the unit, excluding Hazardous Air Pollutants (HAPs), that are less than 2 tons per year based on the unit's potential to emit and any HAP regulated under section 112(g) of the Clean Air Act that does not exceed 0.5 ton per year based on the unit's potential to emit. Insignificant activities must be listed in the Part 70 application with supporting calculations. Applicable requirements may apply to insignificant units.
- 1.6.3. Federal Potential to Emit: The federal potential to emit (PTE) of a stationary source does not include fugitive emissions of any pollutant, unless the source is: (1) subject to a federal NSPS/NESHAP requirement which was in effect as of August 7, 1980, or (2) included in the 29-category source list specified in 40 CFR 70.2. The federal PTE does include all emissions from any insignificant emissions units. None of the equipment at this facility is subject to a



federal NSPS/NESHAP requirement which was in effect as of August 7, 1980, nor is it included in the 29-category list, therefore the federal PTE does not include fugitive emissions. (See Section 5.4 for the federal PTE for this source.)

- 1.6.4. Permit Shield: The operator of a major source may be granted a shield: (a) specifically stipulating any federally enforceable conditions that are no longer applicable to the source and (b) stating the reasons for such non-applicability. The permit shield must be based on a request from the source and its detailed review by the District. Permit shields cannot be granted indiscriminately with respect to all federal requirements. SoCalGas has not made a request for a permit shield.
- 1.6.5. Alternate Operating Scenarios: A major source may be permitted to operate under different operating scenarios, if appropriate descriptions of such scenarios are included in its Part 70 permit application and if such operations are allowed under federally-enforceable rules SoCalGas requested an alternative operating scenario that would allow an overhauled engine to operate for approximately 150 hours under a break-in period where the catalyst would not be attached and the AFRC would be offline. The District denied this request because operation of the engine without these emission controls in place would constitute a violation of Rule 331.
- 1.6.6. Compliance Certification: Part 70 permit holders must certify compliance with all applicable federally enforceable requirements including permit conditions. Such certification must accompany each Part 70 permit application; and, be re-submitted annually on or before March 1<sup>st</sup> and September 1<sup>st</sup>, as specified in the permit. Each certification is signed by a “responsible official” of the owner/operator company whose name and address is listed prominently in the Part 70 permit. (See Section 1.6.10 below)
- 1.6.7. Permit Reopening: Part 70 permits are re-opened and revised if the source becomes subject to a new rule or new permit conditions are necessary to ensure compliance with existing rules. The permits are also re-opened if they contain a material mistake or the emission limitations or other conditions are based on inaccurate permit application data.
- 1.6.8. MACT/Hazardous Air Pollutants (HAPs): Part 70 permits also regulate emission of HAPs from major sources through the imposition of maximum achievable control technology (MACT), where applicable. The federal PTE for HAP emissions from a source is computed to determine MACT or any other rule applicability. Gas compressors #2 through #8 are subject to NESHAP provisions to control formaldehyde emissions. Gas compressors #2 through #8 are equipped with NSCR as required by 40 CFR 63 Subpart ZZZZ. Exhaust concentrations of formaldehyde emissions are limited to 2.7 ppmvd at 15% oxygen. (see Sections 3.2, 4.8 and 9.C).
- 1.6.9. Compliance Assurance Monitoring (CAM): The CAM rule became effective on April 22, 1998. This rule affects emission units at the source subject to a federally enforceable emission limit or standard that uses a control device to comply with the emission standard, and either pre-control or post-control emissions exceed the Part 70 source emission thresholds. Sources subject to CAM Rule must submit a CAM Rule Compliance Plan along with their Part 70 operating permit renewal applications. All NSCR-controlled IC engines driving the compressors are subject to this Rule. (see Sections 3.2.6, 4.9.3, Table 4.2 and 9.C.18)

1.6.10 Responsible Official: The designated responsible official and mailing address is:

Mr. Edward Wiegman, Storage Operations Manager  
Southern California Gas Company  
Post Office Box 818  
Goleta, California 93116-0818  
Telephone: (805) 681-8068

The designated alternative responsible official and mailing address is:

Mr. Glenn La Fevers  
Southern California Gas Company  
9400 Oakdale Avenue  
Chatsworth, California 91311

## 2.0 Process Description

### 2.1 Process Summary

California Public Utilities Commission (CPUC) quality natural gas (meeting General Order 58-A standards) is purchased by SoCalGas from regional oil and gas producing companies. The gas comes to the La Goleta facility via pipelines. This natural gas is re-compressed to above 1300 psig by the eight (8) large IC engine driven compressors at the facility; after re-compression, the gas is stored in an underground depleted gas reservoir. During heavy demand periods natural gas is withdrawn from the sub-surface reservoir, trapped impurities are removed, it is dehydrated, then it is transferred to pipelines.

Seven compressors, Units #2 through #8, are four-stroke rich burn units equipped with non-selective catalytic reduction (NSCR) for emission control. Unit #9, the largest compressor, is a two-stroke lean-burn unit equipped with Clean-Burn technology to lower its emissions below District requirements.

- 2.1.1 *Separators:* Separators at the dehydration facility remove free liquids and solids from the withdrawal gas stream. Sand and liquids cause erosion in the existing processing equipment which reduces the efficiency of the glycol contactors.

Gas withdrawn from the field enters the dehydration plant through high-pressure separators where sand and free liquids are removed. Gas then flows to low-pressure separators where any residual sand and free liquids are removed. The gas then flows to the glycol contactors for dehydration or directly to the transmission lines. Sand removed from the high-pressure separators is allowed to flow into a sand trap which is emptied as necessary using a vacuum truck or removed manually. The free liquids removed from the separators are routed to the flotation cells at the tank farm.

- 2.1.2 *Dehydration Plant 14:* The “Dehy” plant is used to dehydrate gas withdrawn from the field. This gas contains hydrocarbon liquids and water and must be dried to pipeline quality before entering the transmission system. Gas withdrawn from the field enters the station through regulators where the pressure is reduced from 1300 - 1800 psig to 1,000 psig or below. The gas flows into glycol contactors where most of the free liquids are absorbed by the glycol. Along with the water, the glycol absorbs some entrained hydrocarbons and other impurities present in the gas. This rich glycol is then heated by heat exchangers to regenerate the glycol by driving off water, condensate, and other impurities. The regenerated lean glycol is then re-circulated into the contactors. The gas coming off from the contactor unit is commingled with a pre-determined amount of non-dehydrated gas to achieve the designed mix and then routed into the supply system.

A condenser removes HC condensates from the glycol rectifier flash gas. The liquid removed from this gas is routed to the flotation cells at the tank farm. The post-condenser excess flash gas is treated for sulfur removal by the Sulfa Treat units and then burned off in the flare stacks serving the dehydration plant.

2.1.3 *Tank Farm:* Oily/Watery liquids collected from the gas in the separator traps and other units of the dehydration plant are pumped into one of the two flotation cells where the brine water and oily liquids are separated by gravity. After separation, the oily liquid is pumped into the hydrocarbon liquid storage tank and the brine is pumped into the brine water storage tank. The HC/brine is removed from the brine tank for disposal by a vacuum truck (highway tanker cargo carrier).

The HC condensate storage tank, the brine water storage tank and the flotation cells are closed and equipped with a vapor recovery system. When pressure builds in the tanks past a low-pressure set-point, a blower is activated and the excess gas is vented to a flare that is equipped with a continuous flame pilot.

2.1.4 *Methanol Storage Tank:* Methanol is used to prevent the formation of hydrates in the withdrawal gas pressure regulators. The hydrates can freeze to ice which would occur during large pressure drops. Pneumatic pumps at the dehydration plant are used to inject methanol.

2.1.5 *Natural Gas Odorant and Metering Equipment:* A metering pump injects odorant Captan-50 (50% Tetrahydrothiophene and 50% t-Butyl Mercaptan) or Thiophane into gas piped from the SoCalGas La Goleta underground storage and dehydration facility. Tanker trucks equipped with a vapor recovery system to reduce transfer emissions fill the odorant storage tank.

2.1.6 *Fugitive Components:* The fugitive components emit reactive organic compounds (ROC) from the valves, flanges, and fittings. Molecular composition of the ROC in the natural gas ranges to 13.3%, by weight, of the total hydrocarbon amount.

## **2.2 Support Systems**

2.2.1 *Power Generation:* Four (4) natural gas fired micro-turbines powering generators provide power for the plant facility. La Goleta facility also employs one 160 hp gas-fired IC engine to provide emergency power to the office building at the facility. The gas-fired emergency equipment unit is restricted to 199 hours of operation annually and is exempt from emission controls.

2.2.2 *Cooling Fans:* Cooling fans at the La Goleta facility, previously driven by gas-fired IC engines, are now driven by electric motors. Thus, these are no longer subject to any IC engine emission control rules.

2.2.3 *Support Operations:* Two (2) gas-fired IC engines, Units 4A and 5A, drive air compressors, and two (2) diesel-fired IC engines (units 12A and 13A) drive emergency firewater pumps to service equipment at the facility. The support units 4A and 5A are rated less than 50 horsepower and not subject to the District Rule 333 standards and are not emissions-controlled. The support units 12A and 13A are exempt from Rule 333 per Rule 333.B.1.d and are not emissions-controlled.

2.2.4 *Heat Supply:* One hot oil (thermal fluid) heater rated at 3,500 MMBtu/hr is used to provide heat to the heat exchangers in the dehydration process. The unit is fired on PUC-quality natural gas and is controlled to Rule 361 emission standards with a Low-NOx burner. A second non-stacked back-up hot oil heater is equipped with a 2,000 MMBtu/hr Eclipse WX0200 burner which is fire on PUC-quality natural gas, certified to Rule 360 emission requirements and exempt from permit. Also, two pre-heat boilers each rated at 2,000 million Btu/hr pre-heat the gas upstream of the regulation station which feeds to Line 1003. These units are not subject to emission controls.

- 2.2.5 *Flares:* Three flares, each rated at 1.60 million BTU/hr are used to flare off excess ROC from the tanks and dehydration plant. The constant-flame pilots at the flares are fired by PUC quality natural gas. The flare gas sulfur level is controlled by SulfaTreat units to below 239 ppmv.
- 2.2.6 *Loading Station:* A loading station facilitates periodic removal of liquids from the HC condensate storage tank into trucks. The trucks remove up to 125,000 gallons of the HC condensates annually.
- 2.2.7 *Flow Metering:* Flow metering is essential in the pre-sales blending of de-hydrated and non-dehydrated processed gases at the Gas Plant. All of the flow measurement devices (3419, 3433, 3445, 3464 and the four contactor outlets) are fitted with transmitters to meter and monitor volumetric flows via dynamic compensation procedures. Volumetric flow data is fed to a server computer at the Plant.

### **2.3 Maintenance/Degreasing Activities**

- 2.3.1 *Paints and Coatings:* Maintenance painting at La Goleta facility is conducted on an intermittent basis. Normally only touch-up and equipment labeling or tagging is done with cans of spray paint.
- 2.3.2 *Solvent Usage:* Solvents not used for surface coating thinning may be used at the facility for daily operations. Usage includes cold solvent degreasing and wipe cleaning with rags.

### **2.4 Planned Process Turnarounds**

Process turnarounds on the facility equipment are not planned/scheduled at La Goleta Plant.

### **2.5 Other Processes**

*Venting:* Gas may be vented during pipeline depressurization. This gas is vented through a stack but it is not flared and emissions of ROC are not controlled during this process. SoCalGas is limited to venting no more than 10 MMscf of gas per year.

### **2.6 Detailed Process Equipment Listing**

Refer to the tables in Attachment 10.5 for a complete listing of all permitted and exempt emission units.

### 3.0 Regulatory Review

This Section identifies the federal, state and local rules and regulations applicable to the La Goleta facility.

#### 3.1 Rule Exemptions Claimed

⇒ District Rule 202 (*Exemptions to Rule 201*): SoCalGas has requested and obtained permit exemptions for the following equipment items (*note that an exemption from permit does not grant relief from any applicable prohibitory rule unless specifically exempted by that prohibitory rule*):

- Two (2) gas-fired IC engines, Waukesha VRG 220Us, 48 hp each (202.F.1.f)
- Two (2) glycol storage tanks, 2000 gallons capacity each and one (1) glycol run tank (202.V.1);
- Three (3) diesel tanks, two 110 gallons and one 600 gallons capacity (202.V.2);
- Three (3) Lube oil tanks, 5000 gallons capacity each (202.V.3)
- One (1) degreaser unit, JRI, Model TL 21, using non-ROC solvent (202.U.2.c);
- One (1) emergency electrical generator driven by a Waukesha F817GU gas-fired IC engine rated at 160 hp and operated < 200 hours/year (202.F.1.d); and,
- One (1) glycol/glycol heat exchanger and one (1) glycol/oil heat exchanger (202.L.1).
- One (1) water/gas heater exchanger (202.L.1)
- One (1) 2.000 MMBtu/hr hot oil heater (202.G.1)

⇒ District Rule 325 (*Crude Oil Production and Storage*): Based on Rule 325.A, this post-custody-transfer facility is not subject to Rule 325.

⇒ District Rule 326 (*Storage of Reactive Organic Compound Liquids*): The pressurized glycol tanks and the methanol liquid storage tank at this facility are less than 5,000 gallons capacity. Similarly, the pressurized odorant storage tanks are less than 5,000 gallons capacity. Based on Rule 326.B.1.(a) and (b), these tanks are exempt from this rule

⇒ District Rule 331 (*Fugitive Emissions Inspection and Maintenance*): This facility, as currently configured, is not a gas production field or a gas processing plant as defined by Rule 331.C. Therefore this facility is not subject to Rule 331.

⇒ District Rule 333 (*Control of Emissions from Reciprocating Internal Combustion Engines*): Two (2) gas-fired IC engines driving two air compressors (4A & 5A) are rated less than 50 bhp, therefore they are not subject to Rule 333. The gas-fired emergency generator is exempt from Rule 333 based on Rule 333.B.1.b. The two diesel-fired emergency fire pumps are exempt from Rule 333 per Rule 333.B.1.d.

⇒ District Rule 359 (*Flares and Thermal Oxidizers*): Each of the three flares is rated at 1.60 MMBtu/hour heat input. Based on Rule 359.B.3, the provisions of Rule 359 with the exception of Sections D.1 (*fuel sulfur content*), D.2 (*technology standards*), G (*monitoring*) and H (*reporting*), do not apply to the flares.

### **3.2 Compliance with Applicable Federal Rules and Regulations**

- 3.2.1 40 CFR Parts 51/52 {New Source Review (Nonattainment Area Review and Prevention of Significant Deterioration)}: The La Goleta facility was constructed and permitted prior to the applicability of these regulations. However, all permit modifications as of July 1979 are subject to District NSR requirements. Compliance with District Regulation VIII (*New Source Review*) ensures that future modifications to the facility will comply with these regulations.
- 3.2.2 40 CFR Part 60 {New Source Performance Standards}: None of the equipment in this permit is subject NSPS requirements.
- 3.2.3 40 CFR Part 61 {NESHAP}: None of the equipment in this permit is subject 40 CFR Part 61 requirements.
- 3.2.4 40 CFR Part 63 {MACT}: On June 17, 1999, the USEPA promulgated Subpart HHH, a NESHAPS for Oil and Natural Gas Production and Natural Gas Transmission and Storage. The subpart applies to owners and operators of natural gas transmission and storage facilities that are major sources of HAPs. Based on District records, HAP emissions from the La Goleta Plant do not exceed the USEPA-defined major HAP source threshold levels (see Section 5 for estimated HAP emissions). Therefore, this subpart does not apply.
- 3.2.5 40 CFR Part 63 (MACT): The rule requirements listed below are based on the current version of the NESHAP.

The final amendments to the National Emission Standard for Hazardous Air Pollutants (NESHAP) for reciprocating internal combustion engines (RICE) was published in the Federal Register on January 18, 2008 as 40 CFR Part 63 Subpart ZZZZ. An affected source under the NESHAP is any existing, new, or reconstructed stationary RICE located at a major source or area source. Based on District records, HAP emissions from the La Goleta Plant do not exceed the USEPA-defined major HAP source threshold levels (see Section 5 for estimated HAP emissions). Therefore, the La Goleta Plant is currently considered an area HAP source.

A stationary RICE located at an area source of HAP emissions is new if construction or reconstruction commenced on or after June 12, 2006. Reconstruction is defined in 40 CFR 63.2 as the replacement of components to such an extent that the fixed capital costs of the new components exceeds 50% of the fixed capital cost that would be required to construct a comparable new source. All of the engines at the facility were in place before June 12, 2006. The cost of ongoing maintenance on each engine does not exceed 50% of the fixed capital cost that would be required to construct a comparable new engine, therefore all of the RICEs at the facility are considered existing engines for the purpose of this Subpart.

Existing emergency standby compression ignition RICE at area sources of HAP emissions (the two E/S DICE firewater pumps) must comply with the applicable emission and operating limits. The following operating requirements apply:

- (1) Change the oil and filter every 500 hours of operation or annually, whichever comes first;

- (2) inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first;
- (3) inspect all hoses and belts every 500 hours of operation or annually, whichever comes first.

Existing emergency standby spark ignition RICE at area sources of HAP emissions (the Waukesha emergency electrical generator) must comply with the applicable emission and operating limits. The following operating requirements apply:

- (1) change the oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) inspect spark plugs every 1,000 hours of operation or annually, whichever comes first;
- (3) inspect all hoses and belts every 500 hours of operation or annually, whichever comes first.

Existing non-emergency, non-black start 2SLB spark ignition RICE at area sources of HAP emissions (the Cooper-Bessemer) must comply with the applicable emission and operating limits. The following operating requirements apply:

- (1) change the oil and filter every 4,320 hours of operation or annually, whichever comes first;
- (2) inspect spark plugs every 4,320 hours of operation or annually, whichever comes first;
- (3) inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first.

Existing non-emergency, non-black start 4SRB spark ignition RICE rated less than or equal to 500 hp at area sources of HAP emissions (the two Waukesha air compressors) must comply with the applicable emission and operating limits. The following operating requirements apply:

- (1) change the oil and filter every 1,440 hours of operation or annually, whichever comes first;
- (2) inspect spark plugs every 1,440 hours of operation or annually, whichever comes first;
- (3) inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first.

For any engine subject to oil change requirements, the owner or operator has the option of utilizing an oil analysis program specified in 40 CFR 63 Subpart ZZZZ §63.6625(i) in order to extend the specified oil change interval. 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.

Existing non-emergency, non-black start 4SRB spark ignition RICE rated greater than 500 hp at area sources of HAP emissions (the eight Ingersoll-Rand gas compressors) must comply with the applicable emission and operating limits. The following emission limits apply:

- (1) Limit concentration of formaldehyde in the exhaust to 2.7 ppmvd @ 15% O<sub>2</sub>; or
- (2) Reduce formaldehyde emissions by 76% or more.

Gas compressors #2 through #8 are subject to NESHAP provisions to control formaldehyde emissions. Gas compressors #2 through #8 are equipped with NSCR as required by 40 CFR 63 Subpart ZZZZ. Exhaust concentrations of formaldehyde emissions are limited to 2.7 ppmvd at 15% oxygen.



The operator must:

- (1) Collect the catalyst inlet temperature data according to §63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than or equal to 750 °F and less than or equal to 1,250°F for the catalyst inlet temperature; or
- (2) Immediately shut down the engine if the catalyst inlet temperature exceeds 1,250° F.

To demonstrate continuous compliance with the operating parameters, the operator must:

- (1) Measure the pressure drop across the catalyst once per month; and
- (2) Collect the catalyst inlet temperature data and reduce the data to 4-hour rolling averages.

The operator must conduct a performance test every 8,760 hours of operation, or every three years, whichever comes first.

3.2.6 40 CFR Part 63 (*MACT*): EPA has implemented MACT standards for boilers per 40 CFR 63 Subpart DDDDD (major sources) and per 40 CFR 63 Subpart JJJJJ (area sources). The La Goleta facility is an area source of HAP. Therefore, 40 CFR 63 Subpart DDDDD is not applicable. Additionally, gas-fired boilers are not subject to 40 CFR 63 subpart JJJJJ per section 63.11195(e). Thus, SoCalGas is not subject to the requirements of either of the Boiler MACT regulations.

3.2.7 40 CFR Part 64 {Compliance Assurance Monitoring}: This rule became effective on April 22, 1998. This rule affects emission units at the source subject to a federally enforceable emission limit or standard that uses a control device to comply with the emission standard, and either pre-control or post-control emissions exceed the Part 70 source emission thresholds. Compliance with this rule was evaluated and it was determined that all IC engines driving gas compressors at this facility and equipped with NSCR devices are subject to Compliance Assurance Monitoring (CAM) [*Ref: 40 CFR 64.2(a)*]. SoCalGas submitted a CAM Plan in August 2002, and has updated it periodically. See Section 4.9.3 (along with Table 4.2) and 9.C.1(c)(ii) of this permit for further detailed information on the CAM Plan requirements.

3.2.7 40 CFR Part 70 {Operating Permits}: This Subpart is applicable to the La Goleta Plant. Table 3.1 lists the federally enforceable District promulgated rules that are “generic” and apply to the EOF. Table 3.2 lists the federally enforceable District promulgated rules that are “unit-specific” that apply to the EOF. These tables are based on data available from the District’s administrative files, from SoCalGas Part 70 Operating Permit 9584-R4 issued in June 2012 and their subsequent renewal applications. Table 3.2 includes the District’s adoption dates of these rules.

In its Part 70 permit application, SoCalGas certified compliance with all existing District rules and permit conditions. This certification is also required of SoCalGas semi-annually. Issuance of this permit and compliance with all its terms and conditions will ensure that SoCalGas complies with the provisions of all applicable Subparts.

### **3.3 Compliance with Applicable State Rules and Regulations**

- 3.3.1 Division 26, Air Resources {California Health & Safety Code}: The administrative provisions of the Health & Safety Code apply to this facility and will be enforced by the District. These provisions are District-enforceable only.
- 3.3.2 California Code of Regulations, Title 17, Sub-Chapter 6, Sections 92000 through 92530: These sections specify the standards by which abrasive blasting activities are governed throughout the State. All abrasive blasting activities at the La Goleta Plant are required to conform to these standards. Compliance will be assessed through onsite inspections. These standards are District-enforceable only. However, CAC Title 17 does not preempt enforcement of any SIP-approved rules that may be applicable to emissions from abrasive blasting activities.
- 3.3.3 California Code of Regulations, Title 17, Section 93115: This section is the airborne toxic control measure (ATCM) to reduce diesel particulate matter (PM) and criteria pollutant emissions from stationary diesel-fueled compression ignition (CI) engines. Its provisions apply to any stationary, industrial CI engine operated in California with a rated brake horsepower greater than 50 (>50 bhp). Portable or off-road IC engines not integral to the stationary source operations are exempt from this ATCM. The two emergency standby firewater pump engines are subject to the ATCM. Per section 93115.3(n) the engines are exempt from the maintenance and testing hours limits of the ATCM, as long as they only operate the number of hours necessary to comply with the testing requirements of the NFPA Standard 25.
- 3.3.4 Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities (CCR Title 17, Section 95665 et. Seq.): On October 1, 2017, the California Air Resources Board (CARB) finalized this regulation, which establishes greenhouse gas emission standards for natural gas underground storage facilities. This facility is subject to the provisions of this regulation. The separators and tanks at this facility satisfy the requirements of the CARB regulation through the use of a vapor collection system. The reciprocating natural gas compressors at this facility are subject to the rod packing/seal vent flow measurement requirements and flow rate standards of Section 95668(c)(4) of the regulation. The facility has elected to maintain rod packing/seal flowrate below the 2 scfm thresholds and repair any exceedances within 30 calendar days as allowed by Section 95668(c)(4)(D) rather than control the vent stacks with the use of a vapor collection system. The natural gas powered pneumatic devices at this facility must comply with the requirements of Section 95668(e) of the regulation. The well casing vents at this facility are not open to the atmosphere during normal operations and are therefore exempt from the flow rate monitoring requirements of the regulation. The components, including components found on tanks, separators, wells and pressure vessels, are subject to the leak detection and repair (LDAR) requirements of Section 95669 of the regulation. The CARB regulation also requires SoCalGas to implement a continuous monitoring program and daily or continuous leak screening at each injection/withdrawal wellhead. This facility does not utilize circulation tanks for well stimulation treatments, centrifugal natural gas compressors, or liquids unloading from natural gas only wells and is therefore not subject to the CARB regulation standards and requirements for these equipment and processes.

### **3.4 Compliance with Applicable Local Rules and Regulations**

3.4.1 Applicability Tables: Tables 3.1 and 3.2 list the federally-enforceable District rules. Table 3.3 lists the non-federally-enforceable District rules that apply to this facility.

3.4.2 Rules Requiring Further Discussion: This section provides a more detailed discussion regarding the applicability and compliance of certain rules. The following is a rule-by-rule evaluation of compliance for the La Goleta facility:

*Rule 201 - Permits Required*: This rule applies to any person who builds, erects, alters, replaces, operates or uses any article, machine, equipment, or other contrivance which may cause the issuance of air contaminants. The equipment included in this permit is listed in Attachment 10.5. An Authority to Construct is required to return any de-permitted equipment to service and may be subject to New Source Review.

*Rule 210 - Fees*: Pursuant to Rule 210.G, District permits are reevaluated every three years. This includes the re-issuance of the underlying permit to operate. Also included are the PTO fees. The fees for this facility are based on the District Rule 210, Fee Schedule A. Attachment 10.3 presents the fee calculations for the reevaluated permit.

*Rule 301 - Circumvention*: This rule prohibits the concealment of any activity that would otherwise constitute a violation of Division 26 (Air Resources) of the California H&SC and the District rules and regulations. To the best of the District's knowledge, SoCalGas is operating in compliance with this rule.

*Rule 302 - Visible Emissions*: This rule prohibits the discharge from any single source any air contaminants for which a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade than a reading of 1 on the Ringlemann Chart or of such opacity to obscure an observer's view to a degree equal to or greater than a reading of 1 on the Ringlemann Chart. Sources subject to this rule include: the flares and all gas or diesel-fired piston internal combustion engines. Compliance will be assured by requiring all engines to be maintained according to manufacturer maintenance schedules, and through visible emissions monitoring requirements in Condition 9.B.2. Rule 359 addresses the need for the flares to operate in a smokeless fashion.

*Rule 303 - Nuisance*: This rule prohibits the plant operator from causing a public nuisance due to the discharge of air contaminants. SoCalGas will maintain complaint logs on-site to record any nuisance complaints reported to the District, which requires SoCalGas mitigation action.

*Rule 305 - Particulate Matter, Southern Zone*: La Goleta Plant is considered a Southern Zone source. This rule prohibits the discharge into the atmosphere from any source particulate matter in excess of specified concentrations measured in gr/scf. The maximum allowable concentrations are determined as a function of volumetric discharge, measured in scfm, and are listed in Table 305(a) of the rule (*lowest allowable limit is 0.01 gr/dscf*). Sources subject to this rule include: the flares, all IC engines, including diesel-fired units, and the micro-turbine generators. Compliance with PM<sub>10</sub> emission limits is usually met by all natural gas-fired devices (uncontrolled PM<sub>10</sub> emission factor equivalent to 0.007 gr/dscf). Improperly maintained diesel engines have the potential to violate this rule. Compliance will be assured by requiring all engines to be maintained according to a District-approved *IC Engine Inspection and Maintenance Plan*.

*Rule 309 - Specific Contaminants:* Under Section A, no source may discharge sulfur compounds and combustion contaminants in excess of 0.2% as SO<sub>2</sub> (by volume) and 0.3 gr/scf (at 12% CO<sub>2</sub>) respectively. Sulfur emissions due to the combustion of waste gases in the flares should comply with the SO<sub>2</sub> limit due to stoichiometric combustion requirements. All diesel powered piston IC engines have the potential to exceed the combustion contaminant limit if not properly maintained (see discussion on Rule 305 above for compliance).

*Rule 311 - Sulfur Content of Fuels:* This rule limits the sulfur content of fuels combusted in La Goleta facility to 0.5% (by weight) for liquids fuels and 15 gr/100 scf (calculated as H<sub>2</sub>S) {or 239 ppmv} for gaseous fuels. Natural gas fuel used at the facility is of PUC quality (4 ppmv H<sub>2</sub>S); gaseous fuel combusted at the flares are controlled to 239 ppmv H<sub>2</sub>S content using sulfur removal units.

*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/day respectively). Solvents may be used at the La Goleta Plant during normal operations for degreasing by wipe cleaning and for use in paints and coatings in maintenance operations. There is the potential to exceed the limits under Section B.2 during significant surface coating activities. SoCalGas will be required to maintain records to ensure compliance with this rule.

*Rule 321 - Solvent Cleaning Operations:* This rule was revised to fulfill the commitment in the Clean Air Plans to implement requirements for solvent cleaning machines and solvent cleaning. The revised rule contains solvent reactive organic compounds (ROCs) content limits, revised requirements for solvent cleaning machines, and sanctioned solvent cleaning devices and methods. These provisions apply to solvent cleaning machines and wipe cleaning.

*Rule 322 - Metal Surface Coating Thinner and Reducer:* This rule prohibits the use of photochemically reactive solvents for use as thinners or reducers in metal surface coatings. The permittee will be required to maintain records during maintenance operations to ensure compliance with this rule.

*Rule 323.1 - Architectural Coatings:* This rule sets the standards for any architectural coating that is supplied, sold, offered for sale, or manufactured for use within the District.

*Rule 324 - Disposal and Evaporation of Solvents:* This rule prohibits any source from disposing more than one and a half gallons of any photochemically reactive solvent per day by means that will allow the evaporation of the solvent to the atmosphere. SoCalGas will be required to maintain records to ensure compliance with this rule.

*Rule 326 – Storage of Reactive Organic Compound Liquids:* This rule, adopted December 14, 1993, applies to equipment used to store ROC liquids with a vapor pressure greater than 0.5 psia. The primary requirements of this rule are under Sections D and E. The flotation cells and the HC condensate storage tank (Device ID#s 1217, 1219, and 1220) are subject to the requirements of this rule. SoCalGas complies with this rule by using a District-approved vapor recovery system on all three tanks.

*Rule 330 - Surface Coating of Metal Parts and Products:* This rule applies to the use of surface coatings applied to metal parts and products. It does not apply to coating operations which are subject to Rule 323.

*Rule 333 - Control of Emissions from Reciprocating Internal Combustion Engines:* This rule applies to all engines with a rated brake horsepower of 50 or greater that are fueled by liquid or gaseous fuels. As stated above, the emergency standby DICEs powering the firewater pumps and the emergency standby generator are exempt from the requirements of Rule 333. The IC engines powering the eight compressors are subject to the NO<sub>x</sub>, CO and ROC standards under Section E for non-cyclic engines. Unit #9 is a lean-burn engine; the other seven engines subject to the rule are rich-burn engines. Ongoing compliance will be achieved through implementation of the District-approved *Inspection and Maintenance Plan* and through biennial source testing for Unit #9 and, annual source testing for Units #2-8.

*Rule 346 - Loading of Organic Liquids:* This rule applies to the transfer of organic liquids into an organic liquid cargo vessel. For this rule only, an organic liquid cargo vessel is defined as a truck, trailer or railroad car. The loading station operated at the La Goleta facility is subject to this rule. Compliance with the rule requirements is met since submerged fill pipes are used. The facility throughput is limited to less than 20,000 gallons per day and 150,000 gallons per year so a vapor recovery system is not required for the loading station.

*Rule 352 – Natural Gas-Fired Fan-Type Central Furnaces and Small Water Heaters:* This rule applies to new water heaters rated less than 75,000 Btu/hr and new fan-type central furnaces. It requires the certification of newly installed units.

*Rule 353 - Adhesives and Sealants:* This rule applies to the use of adhesives and sealants. Compliance with this rule will be achieved through use of Rule 353-allowable sealants and adhesives and through proper record keeping per Rule 353 addressing the use of adhesives and sealants at the facility.

*Rule 359 - Flares and Thermal Oxidizers:* This rule applies to flares for both planned and unplanned flaring events. Compliance with this rule has been documented. A detailed review of compliance issues is as follows:

- D.1 - Sulfur Content in Gaseous Fuels: Part (a) limits the total sulfur content of all planned flaring from South County flares to 15 gr/100 cubic feet (239 ppmv) calculated as H<sub>2</sub>S at standard conditions. Compliance with this rule is anticipated since SoCalGas has installed a sulfur removal system upstream of the flare, and periodic monitoring of the system is required per Section 9.C.4 provisions.
- D.2 - Technology Based Standard: Requires all flares to be smokeless and sets pilot flame requirements. The flares at the La Goleta facility are in compliance with this section.

*Rule 360 - Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers:* This rule applies to any water heater, boiler, steam generator, or process heater rated from 75,000 Btu/hour to 2.000 MMBtu/hr. Any unit manufactured after October 17, 2003 must be certified to meet the NO<sub>x</sub> emission limits of the rule. The permit exempt 2.000 MMBtu/hr Hot Oil Heater #2, and two permitted 2.000 MMBtu/hr gas preheaters are certified to meet the emission limits for NO<sub>x</sub> at 30 ppm @3% O<sub>2</sub> and for CO at 400 ppm@3% O<sub>2</sub>.

*Rule 361- Small Boilers, Steam Generators, and Process Heaters:* This rule applies to process heaters rated between 2 and 5 MMBtu/hr. A process heater is defined in Rule 361 as any external combustion equipment which transfers heat from combustion gases to water or process streams. The hot oil heaters use oil to heat a rich glycol process stream, therefore the units are defined as process heaters per Rule 361. Hot Oil Heater #1 is subject to the requirements of this rule. These requirements are detailed in Section 9.0. Hot oil heater #2 is exempt from permit.

*Rule 505 - Breakdown Conditions:* This rule describes the procedures that SoCalGas must follow when a breakdown condition occurs to any emissions unit associated with La Goleta facility. A breakdown condition is defined as an unforeseeable failure or malfunction of (1) any air pollution control equipment or related operating equipment which causes a violation of an emission limitation or restriction prescribed in the District Rules and Regulations, or by State law, or (2) any in-stack continuous monitoring equipment, provided such failure or malfunction:

- a. Is not the result of neglect or disregard of any air pollution control law or rule or regulation;
- b. Is not the result of an intentional or negligent act or omission on the part of the owner or operator;
- c. Is not the result of improper maintenance;
- d. Does not constitute a nuisance as defined in Section 41700 of the Health and Safety Code;
- e. Is not a recurrent breakdown of the same equipment.

*Rule 603 - Emergency Episode Plans:* Section A of this rule requires the submittal of *Stationary Source Curtailment Plan* for all stationary sources that can be expected to emit more than 100 tons per year of hydrocarbons, nitrogen oxides, carbon monoxide or particulate matter. SoCalGas submitted such a plan December 2008 which was subsequently approved by the District on June 18, 2009.

*Rule 810 - Federal Prevention of Significant Deterioration:* This rule was adopted January 20, 2011 to incorporate the federal Prevention of Significant Deterioration rule requirements into the District’s rules and regulations. Future projects at the facility will be evaluated to determine whether they constitute a new major stationary source or a major modification.

### **3.5 Compliance History**

This section contains a summary of the compliance history for this facility and was obtained from documentation contained in the District’s administrative file.

3.5.1 Facility Inspections: Routine facility inspections are conducted on a quarterly basis at this facility. The inspection reports issued for the inspections were reviewed as part of the current permit renewal process. With the exception of the enforcement actions listed below, there were no additional compliance issues or changes affecting the facility permit required to be documented in this permit renewal.

3.5.2 Violations: The following enforcement actions were issued to this facility since issuance of the previous permit renewal. Compliance has been achieved for these violations.

NOV NO.	Date Issued	Description
#12499	09/08/2020	Fugitive emission leak > 50,000 ppm.
#12458	07/14/2020	Failure to record Micro Turbine operational data.
#12459	07/14/2020	Failed Micro Turbine fuel meter.
#11380	09/17/2018	Exceed permitted emission limit during source testing.

3.5.3 The following Hearing Board actions were taken since issuance of the previous permit renewal:

Variance Order No.	Period of Coverage	Description
#2020-13-N	06/08/2020 – 09/05/2020	Operate Main Unit #5 to prepare it for service following overhaul work.

**Table 3.1 - Generic Federally-Enforceable District Rules**

Generic Requirements	Affected Emission Units	Basis for Applicability	Adoption Date
<u>RULE 101</u> : Compliance by Existing Installations	All emission units	Emission of pollutants	June 21, 2012
<u>RULE 102</u> : Definitions	All emission units	Emission of pollutants	August 25, 2016
<u>RULE 103</u> : Severability	All emission units	Emission of pollutants	October 23, 1978
<u>RULE 201</u> : Permits Required	All emission units	Emission of pollutants	June 19, 2008
<u>RULE 202</u> : Exemptions to Rule 201	Applicable emission units, as listed in form 1302-H of the Part 70 application.	Insignificant activities/emissions, per size/rating/function	August 25, 2016
<u>RULE 203</u> : Transfer	All emission units	Change of ownership	April 17, 1997
<u>RULE 204</u> : Applications	All emission units	Addition of new equipment of modification to existing equipment.	August 25, 2016
<u>RULE 205</u> : Standards for Granting Permits	All emission units	Emission of pollutants	April 17, 1997
<u>RULE 206</u> : Conditional Approval of Authority to Construct or Permit to Operate	All emission units	Applicability of relevant Rules	October 15, 1991
<u>RULE 207</u> : Denial of Applications	All emission units	Applicability of relevant Rules	October 23, 1978
<u>RULE 208</u> : Action on Applications – Time Limits	All emission units. Not applicable to Part 70 permit applications.	Addition of new equipment of modification to existing equipment.	April 17, 1997
<u>RULE 212</u> : Emission Statements	All emission units	Administrative	October 20, 1992
<u>RULE 301</u> : Circumvention	All emission units	Any pollutant emission	October 23, 1978
<u>RULE 302</u> : Visible Emissions	All emission units	Particulate matter emissions	June 1981
<u>RULE 303</u> : Nuisance	All emission units	Emissions that can injure, damage or offend.	June 1981

<b>Generic Requirements</b>	<b>Affected Emission Units</b>	<b>Basis for Applicability</b>	<b>Adoption Date</b>
<u>RULE 305</u> : Particulate Matter – Southern Zone	Each PM Source	Emissions of PM in effluent gas	October 23, 1978
<u>RULE 309</u> : Specific Contaminants	All emission units	Combustion contaminant emission	October 23, 1978
<u>Rule 310</u> : Odorous Organic Sulfides	All emission units	Combustion contaminant emission	October 23, 1978
<u>RULE 311</u> : Sulfur Content of Fuel	All combustion units	Use of fuel containing sulfur	October 23, 1978
<u>RULE 317</u> : Organic Solvents	Emission units using solvents	Solvent used in process operations.	October 23, 1978
<u>RULE 321</u> : Solvent Cleaning Operations	Emission units using solvents.	Solvent used in process operations.	June 21, 2012
<u>RULE 322</u> : Metal Surface Coating Thinner and Reducer	Emission units using solvents.	Solvent used in process operations.	October 23, 1978
<u>RULE 323.1</u> : Architectural Coatings	Paints used in maintenance and surface coating activities.	Application of architectural coatings.	January 1, 2015
<u>RULE 324</u> : Disposal and Evaporation of Solvents	Emission units using solvents.	Solvent used in process operations.	October 23, 1978
<u>RULE 353</u> : Adhesives and Sealants	Emission units using adhesives and solvents.	Adhesives and sealants used in process operations.	June 21, 2012
<u>RULE 505.B2, B3, C, E, F, G</u> : Breakdown Conditions	All emission units	Breakdowns where permit limits are exceeded or rule requirements are not complied with.	October 23, 1978
<u>RULE 603</u> : Emergency Episode Plans	Stationary sources with PTE greater than 100 tpy	Dos Cuadras - South County is a major source.	June 15, 1981
<u>REGULATION VIII</u> : New Source Review	All emission units	Addition of new equipment of modification to existing equipment. Applications to generate ERC Certificates.	August 25, 2016
<u>REGULATION XIII (RULES 1301-1305)</u> : Part 70 Operating Permits	All emission units	SoCalGas La Goleta - South County is a major source.	January 18, 2001



**Table 3.2 - Unit-Specific Federally-Enforceable District Rules**

<b>Unit-Specific Requirements</b>	<b>Affected Emission Units</b>	<b>Basis for Applicability</b>	<b>Adoption Date</b>
<u>RULE 326</u> : Storage of reactive Organic Compounds	Tanks, sumps, and vessels	All reactive organic compound storage units	January 18, 2001
<u>RULE 333</u> : Control of Emissions from Reciprocating IC Engines	Internal combustion engines driving compressors and emergency fire water pumps.	IC engines exceeding 50 bhp rating.	June 19, 2008
<u>RULE 346</u> : Loading of Organic Liquids	Loading Rack at this facility	Rate/capacity triggering applicability.	January 18, 2001
<u>RULE 352</u> : Natural Gas Fired Fan-Type Central Furnaces and Small Water Heaters	New water heaters and furnaces.	Upon Installation	October 20, 2011
<u>RULE 359</u> : Flares and Thermal Oxidizers	Flare Relief System; ID# 005493	Flaring.	June 28, 1994
<u>RULE 360</u> : Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers	Gas Preheaters and any new small boiler installed at the facility.	New units rated from 75,000 Btu/hour to 2.000 MMBtu/Hour.	March 15, 2018
<u>RULE 361</u> : Small Boilers, Steam Generators, and Process Heaters.	Hot Oil Heaters	Any boiler, steam generator, and process heater with a rated heat input capacity greater than 2 MMBtu/hr and less than 5 MMBTU/hr.	June 20, 2019

**Table 3.3 - Non-Federally-Enforceable District Rules**

<b>Requirement</b>	<b>Affected Emission Units</b>	<b>Basis for Applicability</b>	<b>Adoption Date</b>
<u>RULE 210</u> : Fees	All emission units	Administrative	March 17, 2005
<u>RULE 310</u> : Odorous Organic Sulfides	All emission units	Emission of organic sulfides	October 23, 1978
<u>RULES 501-504</u> : Variance Rules	All emission units	Administrative	October 23, 1978
<u>RULES 506-519</u> : Variance Rules	All emission units	Administrative	October 23, 1978

## 4.0 Engineering Analysis

### 4.1 General

The engineering analyses performed for this permit were limited to the review of:

- Facility process flow diagrams.
- Emission factors and calculation methods for each emissions unit.
- Emission control equipment (including RACT, BACT, NSPS, NESHAP, MACT).
- Emission source testing, sampling, CAM.
- Process monitors needed to ensure compliance.

Unless noted otherwise, default ROC/THC reactivity profiles from the District's document titled "*VOC/ROC Emission Factors and Reactivities for Common Source Types*" dated April 1, 2003 (ver. 1.3) was used to determine non-methane, non-ethane fraction of THC.

### 4.2 Stationary Internal Combustion Sources

The stationary source has a total of thirteen IC engines at the facility, eleven gas-fired and two diesel-fired, as described below, as well as four micro-turbine generators.

#### 4.2.1 Gas-Fired Piston IC Engines with Emissions Control: IC engines operating at the La Goleta Plant and equipped with emissions control are comprised of the following:

- Gas compressors #2 through #8 are rich-burn, non-cyclic, natural gas-fired Ingersoll-Rand IC engines (four Model LVG-82s and three Model KVG-62s), each equipped with a non-selective catalytic reduction (NSCR) system and an automatic air-fuel ratio controller, and each driving a gas compressor;
- One lean-burn, non-cyclic, two-stroke, natural gas-fired Cooper Bessemer Model GMV-10C engine, equipped with "Clean-Burn" emissions control technology (using leaner air-fuel ratio, turbo-charged unit, jet cell fuel ignitors and an AFRC unit regulating the turbocharger), driving a gas compressor;

The seven Ingersoll-Rand engines historically provided emission reduction credits (ERCs) since 1989 to the Point Arguello Project. Their stipulated NO<sub>x</sub> emission factor is 0.324 lb/MMBtu, which is higher than the emission factor which corresponds to 50 ppmv @ 15% O<sub>2</sub>, but the engines may emit 0.324 lb NO<sub>x</sub>/MMBtu and still comply with Rule 333 as long as they can demonstrate 90% control. The ROC emission factor is 0.32 lb/MMBtu, which corresponds to 250 ppmv @ 15% O<sub>2</sub> and a molecular weight of 16 lb/lb-mole for the organic compounds, and the CO emission factor is 3.825 lb/MMBtu, which corresponds to 1,700 ppmvd @ 15% O<sub>2</sub>.

The Cooper Bessemer engine operates with a permitted NO<sub>x</sub> emission factor of 125 ppmvd @ 15% oxygen, ROC emission factor of 750 ppmv @ 15% oxygen, and CO emission factor of 4,500 ppmvd @ 15% oxygen.

Sulfur dioxide emissions from all engines are based on mass balance calculations, assuming maximum 80 ppmv total sulfur content for fuel. The PM<sub>10</sub> emissions from all engines are based on the corresponding emission factors listed in USEPA's AP-42 Table 3.2-3.

The emission factors and heat input rate are calculated in Attachment 10.1. The calculation methodology is as follows:

$$ER = (EF \times Q \times HPP)$$

where: ER = emission rate (lb/period)  
 EF = pollutant specific emission factor (lb/MMBtu)  
 Q = heat input rate (MMBtu/hr)  
 HPP = operating hours per time period (hrs/period)

The emission factor and heat input rate are based on the higher heating value (HHV) of the fuel.

4.2.2 *Diesel Engines:* Diesel fired IC engines operating at the La Goleta Plant:

Two (2) emergency standby Cummins V 378 F2 engines, driving fire pumps, each rated at 133 bhp.

The emission factors are based on the engine's rating and age. The NO<sub>x</sub>, CO, ROC and PM<sub>10</sub> emissions factors were obtained from USEPA's AP-42 Table 3.3-1. The SO<sub>x</sub> emissions factor was obtained from USEPA's AP-42 Table 3.3-2 and assumed 0.0015% by weight of sulfur in the diesel fuel. Daily operations are limited to 2 hours and annual operations are limited to 20 hours for maintenance and testing. Emergency use is unlimited. The calculation methodology is as follows:

$$E1, \text{ lb/day} = \text{Engine Rating (bhp)} \times \text{EF (g/bhp-hr)} \times \text{Daily Hours (hr/day)} \times (\text{lb}/453.6 \text{ g})$$

$$E2, \text{ tpy} = \text{Engine Rating (bhp)} \times \text{EF (g/bhp-hr)} \times \text{Annual Hours (hr/yr)} \times (\text{lb}/453.6 \text{ g}) \times (\text{ton}/2000 \text{ lb})$$

4.2.3 *Gas-Fired Piston IC Engines Without Emissions Control:* Natural gas fired District-permit-exempt IC engines operating at the La Goleta Plant:

Two (2) rich-burn, non-cyclic, natural gas-fired Waukesha IC engines (two VRG 220U's driving air compressors; and,

One (1) emergency gas-fired electrical generator driven by a Waukesha F817GU IC engine rated at 160 hp.

The NO<sub>x</sub>, ROC, CO and PM<sub>10</sub> emission factors for these units correspond to those listed in USEPA's AP-42 (*Air Chief, Version 9.0, 10/02*). Sulfur dioxide emissions from the engines are based on mass balance calculations, assuming maximum 80 ppmv total sulfur content of fuel. The calculation methodology is as follows:

$$ER = (EF \times Q \times HPP)$$

where: ER = emission rate (lb/period)  
 EF = pollutant specific emission factor (lb/MMBtu)  
 Q = heat input rate (MMBtu/hr)  
 HPP = operating hours per time period (hrs/period)

The emission factor and heat input rate are based on the higher heating value (HHV) of the fuel.

- 4.2.4 *Micro-Turbine Generators:* Four (4) natural gas-fired micro-turbine generators are used for electrical power generation.

The NO<sub>x</sub>, CO and ROC emission factors for these units correspond to those listed in CARB DG-002. These are 0.5 lb/MW-hr for NO<sub>x</sub>, 6 lb/MW-hr for CO, and 1 lb/MW-hr for ROC. Sulfur dioxide emissions from the engines are based on mass balance calculations, assuming maximum 80 ppmv total sulfur content of fuel. The emission factors are calculated in Attachment 10.1. The calculation methodology is as follows:

$$ER = [ ( EF \times Q \times HPP ) ]$$

where: ER = emission rate (lb/period)  
 EF = pollutant specific emission factor (lb/MMBtu)  
 Q = heat input rate (MMBtu/hr)  
 HPP = operating hours per time period (hrs/period)

The emission factor and heat input rate are based on the higher heating value (HHV) of the fuel.

### 4.3 **Stationary External Combustion Sources**

The stationary external combustion sources at the La Goleta facility consist of two hot oil heaters, Hot Oil Heater #1 and Hot Oil Heater #2, two gas preheaters, and the three flares. The two gas preheaters and Hot Oil Heater #2 are subject to the emission limits set in Rule 360, Hot Oil Heater #1 is subject to the emission limits of Rule 361 and the flares are subject to the operational standards listed in Rule 359.

- 4.3.1 *Gas-Fired Heaters:* The oil heater and the two gas preheaters are PUC-quality natural gas-fired. The heater supplies hot oil for dehydration facility operations including glycol heat exchanger operations. The hot oil heater manufactured by Fulton Thermal Corporation is rated at 3.5 MMBtu/hour heat input. The two gas preheaters heat the gas upstream of the regulation station which feeds to Line 1003. The gas preheaters are manufactured by Parker Boiler. The calculation methodology for these combustion units is:

$$ER = EF \times Q$$

where: ER = emission rate (lb/period)  
 EF = pollutant specific emission factor (lb/MMBtu)  
 Q = heat input rate (MMBtu/hr)

The emission factors for NO<sub>x</sub> and CO are based on Rule 360 for the gas pre-heaters and Rule 361 for the oil heater. Emission factors for ROC, PM and PM<sub>10</sub> for all units are based on AP-42 emission factors for small natural gas-fired boilers (Tables 1.4-1 and 1.4-2). The SO<sub>x</sub> emission factor for all units is based on the combustion of PUC natural gas.

- 4.3.2 *Flare Relief System:* The flare relief system consists of three 1.60 MMBtu flares which connect to the tank farm and the glycol system. Both planned and unplanned flaring events occur. Emission factors for NO<sub>x</sub>, CO and ROC are based on the USEPA AP-42, Table 11.5-1 (9/91). PM emission factors are based on a District flare study. Sulfur oxide emissions are based on mass balance calculations assuming both planned and pilot/purge sulfur levels at 80 ppmv and

unplanned flaring sulfur levels at 239 ppmv. The emissions for both planned and unplanned flaring events are calculated. The SO<sub>x</sub> emission factor is determined using the equation: (0.169) (ppmv S)/ (HHV). The calculation methodology for the flares is:

$$ER = EF \times Q$$

where: ER = emission rate (lb/period)  
 EF = pollutant specific emission factor (lb/MMBtu)  
 Q = heat input rate (MMBtu/hr)

#### 4.4 Fugitive Hydrocarbon Sources

4.4.1 Emissions of reactive organic compounds from piping components such as valves, flanges and connections have been assigned emission factors pursuant to District P&P 6100.061 (*Determination of Fugitive Hydrocarbon Emissions at Oil and Gas Facilities Through the Use of Facility Component Counts - Modified for Revised ROC Definition*). The component leak-path was counted consistent with P&P 6100.061. This leak-path count is not the same as the component count required by District Rule 331. Only gas and gas/light components are in service at this facility.

The number of emission leak-paths was determined by the operator. The leak path count is documented in Table 5.1-1. The calculation methodology for the fugitive emissions is:

$$ER = [(EF \times CLP \div 24) \times (1 - CE) \times (HPP)]$$

where: ER = emission rate (lb/period)  
 EF = ROC emission factor (lb/clp-day)  
 CLP = component leak-path (clp)  
 CE = control efficiency  
 HPP = operating hours per time period (hrs/period)

Consistent with P&P 6100.061, an emission control efficiency of eighty (80) percent is applied to all components since the La Goleta facility is subject to an Inspection and Maintenance program for leak detection and repair required by the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation. The Production Field component specific emission factors from Table 2 of P&P 6100.061 are used to calculate emissions. Detailed emission calculations for fugitive emissions are shown in Attachments 10.1 and 10.2.

#### 4.5 Tanks/Vessels/Separators

4.5.1 *Tanks*: The La Goleta facility operates two flotation cells (brine/hydrocarbon storage tanks), one hydrocarbon liquid storage tank and a brine water storage tank. All four storage tanks are connected to the vapor recovery unit. The detailed tank calculations for the HC condensate tank and the flotation cells are performed using the methods presented in USEPA AP-42, Chapter 7. Each gas/glycol contactor at the plant is equipped with a pressurized control tank. Additionally the plant operates one NG-blanketed methanol storage tank. All these tank emissions are uncontrolled however, emissions are low and are assumed to be less than 0.10 tpy (200 lb/yr.).

4.5.2 *Vessels*: The dehydration facility operates a 1,000 gallon pressurized odorant storage tank. The pressure vessel is connected to the facility's gas gathering system. All PSVs, vents, and blow down valves vent to the atmosphere. Emissions from a pressure vessel are due to fugitive

hydrocarbon leaks from valves and connections. No emission reduction credits are given since the equipment is not subject to District Rule 331.

- 4.5.3 *Gas/Liquid Separators:* The dehydration facility is equipped with two high-pressure and two low-pressure separators along with a sand trap. Emissions from these separators are due to fugitive hydrocarbon leaks from valves and connections. No emission reduction credits are given since the equipment is not subject to District Rule 331.

#### **4.6 Glycol Reboiler**

The glycol reboiler regenerates rich glycol into lean glycol by driving off the water that was absorbed during the dehydration of the natural gas. The heat source for this process is the oil/glycol heat exchangers serviced by the 3.500 MMBtu/hr gas-fired hot oil heater. Along with water, hydrocarbons are also driven off from the rich glycol. This vapor stream is collected, passed through a condenser and two adsorber beds, and then directed to the flare.

#### **4.7 Other Emission Sources**

The following is a brief discussion of other emission sources at the La Goleta facility:

- 4.7.1 *Loading Station:* A grade level loading station is used to load HC condensates from the HC condensate storage tank to trucks. Uncontrolled ROC emissions from the HC condensate loading are 2.76 lb/1,000 gallons of liquid loaded, calculated based on USEPA's AP-42, section 5.2, June 2008. Allowed maximum throughput for the HC condensate is 125,000 gallons/year. The HC/ROC emissions are computed based on this throughput and assuming zero ROC removal efficiency since the truck loading emissions are not controlled.
- 4.7.2 *Vapor Recovery System:* Gas from tank farm storage tanks are gathered by a vapor recovery system. Collected gases are piped to the flare for disposal via a blower. A control efficiency of 95% is assigned to the system.
- 4.7.3 *Gas Venting:* Facility Emergency Shut Down (ESD) tests (twice a year) and pipeline operational needs result in occasional depressurizing of pipeline segments at the facility. This is achieved by venting the gases contained in the pipeline segments to the atmosphere through stack vents. Mass emissions from venting are calculated based on the volume of gas vented and the ROC content of the gas.
- 4.7.4 *Sulfur Removal Unit:* Two pairs of Kleen Air adsorber bed units are used in parallel to remove sulfur compounds from the flash gases given off by the glycol unit. Each pair has an upstream unit with ferric oxide to remove hydrogen sulfide components and a downstream unit with potassium permanganate to remove mercaptans from the waste gas stream. Because they are arranged in parallel, one pair may be taken off-line for maintenance while the other pair treats the waste gas stream. A cumulative sulfur compound removal efficiency is not required; emissions are based on the permitted limit of 239 ppmv.
- 4.7.5 *General Solvent Cleaning/Degreasing:* Solvent usage (not used as thinners for surface coating) that may occur at the La Goleta facility as part of normal daily operations includes a JRI, Model No. TL 21 unit and wipe cleaning. Mass balance emission calculations are used assuming all the solvent used evaporates to the atmosphere (Attachment 10.1).

4.7.6 *Surface Coating*: Surface coating operations typically include normal touch up activities. Entire plant painting programs may be performed once every few years. Emissions are determined based on mass balance calculations assuming all solvents evaporate into the atmosphere. Emission of PM/PM<sub>10</sub>/PM<sub>2.5</sub> from paint over spray are not calculated due to the lack of established calculation techniques.

4.7.7 *Abrasive Blasting*: Abrasive blasting with CARB certified sands may be performed as a preparation step prior to surface coating. Particulate matter is emitted during this process. A general emission factor of 0.01 pound PM per pound of abrasive is used (SCAQMD - Permit Processing Manual, 1989) to estimate emissions of PM and PM<sub>10</sub> when needed for compliance evaluations. A PM/PM<sub>10</sub>/PM<sub>2.5</sub> ratio of 1.0 is assumed.

#### **4.8 BACT/NSPS/NESHAP-MACT**

There are no emission units at the La Goleta facility subject to Best Available Control Technology (BACT), or NSPS provisions. Gas compressors #2 through #8 are subject to NESHAP provisions to control formaldehyde emissions. Gas compressors #2 through #8 are equipped with NSCR as required by 40 CFR 63 Subpart ZZZZ. Exhaust concentrations of formaldehyde emissions are limited to 2.7 ppmvd at 15% oxygen.

#### **4.9 CEMS/Process Monitoring/CAM**

4.9.1 CEMS: There are no CEMS at this facility.

4.9.2 Process Monitoring: In many instances, ongoing compliance beyond a single (snap shot) source test is assessed by the use of process monitoring systems. Examples of these monitors include: gas/liquid flow meters, fuel usage meters, engine hour meters and air-fuel ratio controllers. Once these process monitors are in place, it is important that they be well maintained and calibrated to ensure that the required accuracy and precision of the devices are within specifications. At a minimum, the following process monitors will be required to be calibrated and maintained in good working order:

- Meter(s) recording the flow of gas being processed at the dehydration plant unit 14.
- Gauges recording the volume of HC liquid (condensate) from the hydrocarbon liquid storage tank into trucks at the loading station.
- Meters recording use of natural gas (as fuel) at all IC engines and micro-turbine generators.
- An hour meter at the emergency generator IC engine restricted to 200 hours per year of operation.
- Hour meters at the emergency fire pump engines restricted to 20 hours per year of operation.

To implement the above calibration and maintenance requirements, a *Process Monitor Calibration and Maintenance Plan* is required. This Plan takes into consideration manufacturer recommended maintenance and calibration schedules. Where manufacturer guidance is not available, the recommendations of comparable equipment manufacturers and good engineering judgment have been utilized.

4.9.3 **CAM:** SoCalGas La Goleta Plant is a major source that is subject to the USEPA's Compliance Assurance Monitoring (CAM) rule (40 CFR 64). The CAM rule applies to any emissions unit at the facility with an uncontrolled potential to emit exceeding major source emission thresholds for any pollutant (100 tons/year for NO<sub>x</sub>, ROC, and CO in Santa Barbara County), and which uses control devices to comply with federally enforceable emission standards for these pollutants. Each of the seven (7) spark-ignition, four-stroke rich-burn (4SRB) IC engines at the Plant uses NSCR/AFRC controls to meet the federally enforceable emission standards (NO<sub>x</sub>, ROC and CO) of District Rule 333, and thus is subject to the CAM Rule. In addition, all the seven engines are subject to more frequent monitoring per the CAM Rule, since the controlled CO potential to emit of each exceeds 100 tons/year (i.e., large pollutant-specific emission units under the CAM Rule). 40 CFR Section 64.3.(b).(4).(ii) sets the guidelines for frequency of monitoring. The District has determined that obtaining one parameter data point per hour is sufficient, since each engine is equipped with alarm sensors controlled by the AFRC millivolt output signal and the thermocouple output signal. Applicable CAM requirements for the engines are listed in Table 4.2 and Condition 9.C.1. The allowed AFRC oxygen sensor millivolt set-point must be within 5% of the setpoint used in the most recent Rule 333 Monitoring. The CAM plan allows set-points to be changed on any engine provided compliance is demonstrated by emissions data at the new set-point. A QIP will be triggered for any engine if there is a 1% excursion rate of any indicator during a calendar quarter.

#### **4.10 Source Testing/Sampling**

Source testing and sampling are required in order to ensure compliance with permitted emission limits, prohibitory rules, control measures and the assumptions that form the basis of this operating permit. The tables below detail the equipment, pollutants, test methods and frequency of required testing. SoCalGas is required to follow the *District Source Test Procedures Manual (May 24, 1990 and all updates)*. The gas compressor engines are the only engines required to be source tested on a periodic basis. The micro-turbines may be source tested if portable analyzer measurements indicate an exceedance of emission limits and the hot oil heater upon District discretion.

The process streams listed in the Table 4.3 are required to be sampled and analyzed. All sampling and analyses are required to be performed according to District approved procedures and methodologies. Typically, the appropriate ASTM methods are acceptable. It is important that all sampling and analysis be traceable by chain of custody procedures. The following table summarizes the sampling requirements:



**Table 4.1 IC ENGINE SOURCE TEST REQUIREMENTS<sup>(a)(b)(c)</sup>**

SoCalGas ID#	Pollutant or Operation Parameter	Test Methods and Remarks (if any)	Frequency
2 – 8	Exhaust Oxygen, % NO <sub>x</sub> ppmv, CO ppmv, ROC ppmv <sup>d</sup> , NO <sub>x</sub> lb/hr, CO lb/hr, ROC lb/hr.  Catalyst NO <sub>x</sub> reduction efficiency may be tested as an alternate method of demonstrating compliance with NO <sub>x</sub> limits.	Measure: CARB 1-100 for O <sub>2</sub> ; CARB 1-100, or USEPA Method 7E and 10 for NO <sub>x</sub> and CO respectively; USEPA Method 18 for ROC	Annually
	Engine load, at least 90% of rated horsepower; all source test loads are to be addressed in the Source Test Plans submitted to the District for approval.	Document setting used in testing.	
	The test is to be conducted with AFRC set points at the “as-found” setting		
9	Exhaust Oxygen, % NO <sub>x</sub> ppmv, CO ppmv, ROC ppmv <sup>d</sup> , NO <sub>x</sub> lb/hr, CO lb/hr, ROC lb/hr.	Measure: CARB 1-100 for O <sub>2</sub> ; CARB 1-100, or USEPA Method 7E and 10 for NO <sub>x</sub> and CO respectively; USEPA Method 18 for ROC	Biennially
	Engine load, at least 90% of rated horsepower; all source test loads are to be addressed in the Source Test Plans submitted to the District for approval.	Document setting used in testing.	
	Ignition Timing (°BTDC)		
All engines subject to source testing	Fuel [Ultimate Analysis (HHV, S, H <sub>2</sub> S, etc.)]	ASTM Method; Measure	Each Test
All engines subject to source testing	Fuel Flow, scf/hr	METER: Measure at each engine	Each Test

- Notes:
- All emission and process parameter tests shall be performed consistent with District protocol, e.g., all emission tests to consist of a minimum of three 30-minute runs at safe maximum load. USEPA Methods 1-4 to be used to determine O<sub>2</sub>, dry MW, moisture content, CO<sub>2</sub> and stack flow rate. Alternately, USEPA 19 may be used to determine stack flow rate. Procedures to obtain the required operating loads shall be defined clearly in the source test plan.
  - All source tested values shall be reported at std. condition (60°F & 14.69 psia), or as otherwise specified.
  - IC engine output (BHP) is determined by RPM.
  - Compliance with the ROC ppmv limit is determined based on the actual concentrations of compounds in the exhaust stream. The concentration should not be reported “as methane” in the source test report.

**TABLE 4.2 COMPLIANCE ASSURANCE MONITORING REQUIREMENTS**

<b>Indicator</b>	<b>Indicator Range</b>
Oxygen Sensor mV Output	Within 5% of the set point used in the latest Rule 333 Monitoring
Catalyst Inlet Temperature	Greater than 610 deg F
Catalyst Outlet Temperature	Between 610 and 1400 deg F

1. All indicators listed in the table are to be monitored on a ‘*once per hour*’ basis. All monitoring operations shall conform to the requirements of 40 CFR 64.7.(c) [*Continued Operation*].
2. Oxygen sensor millivolt output readings are displayed at each AFRC and sent simultaneously to the SoCalGas operations computer for recording of the same.
3. The temperatures are measured by thermocouples and recorded by the operations computer.

**TABLE 4.3 PROCESS STREAM SAMPLING**

<b>Process Stream</b>	<b>Parameter (Equipment ID#)</b>	<b>Location</b>	<b>Frequency</b>
Fuel Gas	HHV Total sulfur Hydrogen sulfide Composition	(i) Plant fuel system regulator unit; or (ii) combustion unit inlets	Semi-annually Semi-annually Semi-annually Semi-annually
Vented Gas	ROC Content Total sulfur	Any valve in the storage field piping segment involved	Annually Annually
Hydrocarbon Condensate	API Gravity TVP (RVP)	HC storage tank pump inlet or outlet	Annually Annually
Gaseous Fuel (flare)	HHV # 1211:Total sulfur # 1212:Total Sulfur # 1215:Total sulfur	Gaseous fuel inlet at the flare unit	Annually Semi-annually Semi-annually Annually

<b>TABLE 4.4 - C60 MICRO-TURBINE SOURCE TEST REQUIREMENTS<sup>(e, g)</sup></b>					
<b>Emission &amp; Limit Test Points</b>	<b>Pollutants</b>	<b>Parameters<sup>(b)</sup></b>	<b>Test Methods<sup>(a),(c)</sup></b>	<b>Concentration Limit</b>	<b>Mass Emissions Limit</b>
				(ppmvd @ 15% O <sub>2</sub> )	(lb/hr)
Turbine Exhaust <sup>(b)</sup>	NO <sub>x</sub>	ppmv, lb/hr	EPA Method 7E, ARB 1-100	10	0.03
	ROC	ppmv, lb/hr	EPA Method 18	58	0.06
	CO	ppmv, lb/hr	EPA Method 10, ARB 1-100	199	0.36
	Sampling Point Deter.		EPA Method 1		
	Stack Gas Flow Rate		EPA Method 2 or 19		
	O <sub>2</sub>	Dry, Mol. Wt	EPA Method 3		
	Moisture Content		EPA Method 4		
Fuel Gas	Fuel Gas Flow Rate		Fuel Gas Meter <sup>(f)</sup>		
	Higher Heating Value	BTU/scf	ASTM D 3588-88		
	Total Sulfur Content <sup>(d)</sup>		EPA 15/16/16A		

Notes:

(a) Alternative methods may be acceptable on a case-by-case basis.

(b) The emission rates shall be based on EPA Methods 2 and 4, or Method 19 along with the heat input rate. Measured NO<sub>x</sub>, ROC, and CO ppmvd shall not exceed the limits specified in Condition.9.C.3 (a) of this PTO.

(c) For NO<sub>x</sub>, ROC, CO and O<sub>2</sub> a minimum of three 40-minute runs shall be obtained during each test.

(d) Total sulfur content fuel samples shall be obtained using EPA Method 18 with Tedlar Bags (or equivalent) equipped with Teflon tubing and fittings. Turnaround time for laboratory analysis of these samples shall be no more than 24 hours from sampling in the field.

(e) Source testing, when requested by the District, shall be performed for the micro-turbines in an as found condition operating per the District's Source Test Procedures Manual.

(f) Fuel meter shall meet the calibration and metered volume corrections specified in Rule 333, §G.3.a.

(g) Source testing will not be required unless the District specifically requests that the units be tested.

**Table 4.5 EXTERNAL COMBUSTION EQUIPMENT SOURCE TEST REQUIREMENTS**

<b>Emission &amp; Limit Test Points</b>	<b>Pollutants</b>	<b>Parameters</b>	<b>Test Methods <sup>(a)</sup></b>	<b>Limits</b>
APCD Device No. 001214 <sup>(b)(c)(d)(e)</sup>	NO <sub>x</sub>	ppmv, lb/hr	EPA Method 7E, ARB 100	30 ppmvd at 3% O <sub>2</sub> , 0.128 lb/hr
	CO	ppmv, lb/hr	EPA Method 10, ARB 100	400 ppmvd at 3% O <sub>2</sub> , 1.038 lb/hr
	Sampling Point Det. Stack Gas Flow Rate O <sub>2</sub> , CO <sub>2</sub> , Dry MW Moisture Content Stack Temperature	°F	EPA Method 1 EPA Method 2 or 19  EPA Method 3 EPA Method 4 Calibrated Thermocouple	
Fuel Gas <sup>(h)</sup>	Fuel Gas Flow Rate Higher Heating Value Total Sulfur Content Gas Composition	Btu/lb  ppmw CHONS%, F-factor	Fuel Gas Meter <sup>(f)</sup> ASTM D 1826 or 3588  ASTM D 1072 or 5504 <sup>(g)</sup> ASTM 1945	

Notes:

- (a) Alternative methods may be acceptable on a case-by-case basis.
- (b) The emission rates shall be based on EPA Methods 2 and 4, or Method 19 along with the heat input rate.
- (c) For NO<sub>x</sub>, CO and O<sub>2</sub> a minimum of three 30-minute runs shall be obtained during each test.
- (d) See Tables 1 and 2 for the emission standards to be measured against during the test. Measured NO<sub>x</sub> and CO shall not exceed the limit specified in the applicable Rule (e.g., Rule 361, Rule 342).
- (e) All emission determinations shall be made in the as-found operating condition, at the maximum attainable firing rate to be approved by the source test plan. No determination shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer.
- (f) Fuel meter shall meet the calibration requirements prior to testing.
- (g) Total sulfur content fuel samples shall be obtained using EPA Method 18 with Tedlar Bags (or equivalent) equipped with Teflon tubing and fittings. Turnaround time for laboratory analysis of these samples shall be no more than 24 hours from sampling.
- (h) Fuel gas heating value and composition are optional for Rule 361 applicable units. Sulfur content only required for units not run on utility purchased gas. For units rated at 5 MMBtu/hr or greater, heating value is required in all cases, but gas composition not required if Method 2 is used for stack flow.

#### **4.11 Part 70 Engineering Review: Hazardous Air Pollutant Emissions**

Potential HAP emissions from each emissions unit are computed and listed in Section 5. The emission factors for each emission category are shown in Section 5 and the sources of the HAP emission factors are documented in Attachment 10.1.

### **5.0 EMISSIONS**

#### **5.1 General**

Emission calculations are divided into permitted and exempt categories. District permit-exempt equipment is determined by District Rule 202. The permitted emissions for each emissions unit are based on the equipment's potential-to-emit (as defined by Rule 102). Section 5.2 details the permitted emissions for each emissions unit. Section 5.3 details the overall permitted emissions for the facility based on reasonable worst-case scenarios using the potential-to-emit for each emissions unit. Section 5.4 details the federal potential to emit for this facility. Section 5.5 provides an estimate of the emissions from exempt emission sources and insignificant emission activities. Section 5.6 provides the estimated HAP emissions from the La Goleta facility. In order to accurately track the emissions from a facility, the District uses a computer database. Attachment 10.4 contains the District's documentation for the information entered into that database.

#### **5.2 Permitted Emission Limits - Emission Units**

Each emissions unit associated with the facility was analyzed to determine the potential-to-emit for the following pollutants:

- Nitrogen Oxides (NO<sub>x</sub>)<sup>3</sup>
- Reactive Organic Compounds (ROC)
- Carbon Monoxide (CO)
- Sulfur Oxides (SO<sub>x</sub>)<sup>4</sup>
- Particulate Matter (PM)<sup>5</sup>
- Particulate Matter smaller than 10 microns (PM<sub>10</sub>)
- Particulate Matter smaller than 2.5 microns (PM<sub>2.5</sub>)
- Greenhouse Gases (GHG)

Permitted emissions are calculated for both short term (hourly and daily) and long term (quarterly and annual) time periods. Section 4.0 (Engineering Analysis) provides a general discussion of the basic calculation methodologies and emission factors used. The reference documentation for the specific emission calculations, as well as detailed calculation spreadsheets, may be found in Section 4 and Attachments 10.1 and 10.2 respectively. Tables 5.1-1 A/B provide the basic operating characteristics. Tables 5.1-2 A/B provide the specific emission factors. Tables 5.1-3 A/B and 5.1-4 A/B show the permitted short-term and permitted long-term emissions for each unit or operation.

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<sup>3</sup> Calculated and reported as nitrogen dioxide (NO<sub>2</sub>)

<sup>4</sup> Calculated and reported as sulfur dioxide (SO<sub>2</sub>)

<sup>5</sup> Calculated and reported as all particulate matter smaller than 100 μm

### **5.3 Permitted Emission Limits - Facility Totals**

The total potential-to-emit for all permitted emission units associated with the facility was analyzed. This analysis looked at the reasonable worst-case operating scenarios for each operating period. The equipment operating in each of the scenarios are presented below. Unless otherwise specified, the operating characteristics defined in Table 5.1-1 A/B for each emission unit are assumed. Tables 5.2 A/B show the total permitted emissions for the facility. Permitted emission totals have changed and are reflected in this permit renewal based on the equipment changes described in Section 2.2 of this permit.

#### Hourly and Daily Scenario:

- All compressor IC engines
- All flares
- Hot oil heater
- Both gas preheaters
- All well cellars, ROC storage tanks and the condensate loading station
- All fugitive emissions from valves, flanges and other piping components
- Pipeline depressurization venting
- All Micro-turbine generators
- Both Emergency firewater pumps

#### Quarterly and Annual Scenario:

- All compressor IC engines
- All flares
- Hot oil heater
- Both gas preheaters
- All well cellars, ROC storage tanks and the condensate loading station
- All fugitive emissions from valves, flanges and other piping components
- Pipeline depressurization venting
- All Micro-turbine generators
- Both Emergency firewater pumps

### **5.4 Part 70: Federal Potential to Emit for the Facility**

Table 5.3 lists the federal Part 70 potential to emit (PTE). Fugitive emissions are excluded from the federal definition of potential to emit unless the source belongs to one of the categories listed in 40 CFR 70.2. This facility does not belong to one of the categories listed in 40 CFR 70.2, therefore fugitive emissions do not contribute to the federal PTE.

This facility does not have the potential to emit 100,000 tpy or more carbon dioxide equivalent emissions, therefore, the facility is not subject to permitting requirements for greenhouse gas emissions. The emission totals are listed in the permit solely to document the potential to emit of the facility.

### **5.5 Exempt Emission Sources/Part 70 Insignificant Emissions**

Attachment 10.5 lists Equipment/activities exempt from District permits, pursuant to Rule 202.

Insignificant emission units are defined under Part70/District Rule 1301 as any regulated air pollutant emitted from the unit, excluding HAPs, that are less than 2 tons per year based on the unit's potential to emit and any HAP regulated under section 112(g) of the Clean Air Act that

does not exceed 0.5 ton per year based on the unit's potential to emit. The following emission units are considered insignificant emission units:

- Maintenance Operations involving Solvents (e.g., wipe cleaning)
- Two glycol storage tanks and a glycol run tank;
- Three diesel fuel storage tanks, one 600 gallons and two 110 gallons capacity;
- Three Lube oil storage tanks, 5,000 gallons capacity each;
- One degreaser unit (JRI, Model TL 21);
- One glycol/glycol and one glycol/oil heat exchanger; and,
- Emergency backup electrical generator w/ gas-fired IC engine.

*Note:* Equipment exempt per District Rules may still be considered Part 70 significant units, based on their potential to emit. In this permit, the following units are Part 70 significant units:

- Two 48 bhp Waukesha engines Units# 4A and 5A.
- Hot Oil Heater #2

Tables 5.3 A/B showing the federal PTE also present the annual emissions from permit-exempt equipment items, including exempt items considered Part 70 significant. Please note the non-maintenance type solvents or surface coating operations (see Section 9.C) are not permit-exempt.

## **5.6 Hazardous Air Pollutant Emissions for the Facility**

Total emissions of hazardous air pollutants (HAP) are computed based on the emission factors listed in Table 5.4-1 for each emissions unit. Potential HAP emission factors and emissions, based on the worst-case scenario listed in Section 5.3 above, are shown in Tables 5.4-1 A/B and 5.4-2 A/B. The HAP emissions have been included in the Part 70 permit solely for the purpose of any future MACT applicability determination. They do not constitute any emissions or operations limit. More details on HAP emission factors are given in Attachment 10.1 of this permit.

**Table 5.1-1 A**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**IC Engines Operating Equipment Description**

Equipment Category	ID#	Description	Device Specifications				Usage Data		Maximum Operating Schedule					References*	
			Fuel	ppmv	S	Size	Units	Capacity	Units	Load	hr	day	qtr		year
Internal Combustion Engines - <i>Controlled</i>	001199	#2: Ingersoll-Rand LVG-82:	NG	80	650.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760	A	
	001200	#3: Ingersoll-Rand LVG-82:	NG	80	650.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	001201	#4: Ingersoll-Rand LVG-82:	NG	80	650.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	001202	#5: Ingersoll-Rand LVG-82:	NG	80	650.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	001203	#6: Ingersoll-Rand KVG-62:	NG	80	660.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	001204	#7: Ingersoll-Rand KVG-62:	NG	80	660.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	001205	#8: Ingersoll-Rand KVG-62:	NG	80	660.00	bhp	7.30	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	- <i>Uncontrolled</i>	001206	#9: Cooper-Bessemer GMV-10C	NG	80	1100.00	bhp	10.02	MMBtu/hr	1.000	1.0	24	2,190		8,760
Micro-turbine generators	107543	#1: Capstone C60	NG	80	60	kW	0.804	MMBtu/hr	1.000	1.0	24	2,190	8,760	B	
	107544	#2: Capstone C60	NG	80	60	kW	0.804	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	107545	#3: Capstone C60	NG	80	60	kW	0.804	MMBtu/hr	1.000	1.0	24	2,190	8,760		
	107546	#4: Capstone C60	NG	80	60	kW	0.804	MMBtu/hr	1.000	1.0	24	2,190	8,760		
Emergency Fire Pumps	008666	#12A: Cummins V-378-F2	D	15	133	bhp	0.930	MMBtu/hr	1.000	1.0	2	5	20		
	008668	#13A: Cummins V-378-F2	D	15	133	bhp	0.930	MMBtu/hr	1.000	1.0	2	5	20		
Internal Combustion Engines - <i>Permit exempt but</i> <i>federally significant units</i>	001221	#4A: Waukesha VRG220U	NG	80	48.00	bhp	0.50	MMBtu/hr	1.000	1.0	24	2,190	8,760	I	
	001222	#5A: Waukesha VRG220U	NG	80	48.00	bhp	0.50	MMBtu/hr	1.000	1.0	24	2,190	8,760		

\* -- Refer to Attachment 10.1 for listed References A, B, I



**Table 5.1-1 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Non-IC Engine Operating Emissions Units Description**

Equipment Category	Description	ID #	Device Specifications				Usage Data			Maximum Operating Schedule				References*
			Fuel	ppmv S	Size	Units	Capacity	Units	Load	hr	day	qtr	year	
Combustion - External	Flare: Field	001215	NG	239	--	--	1,600	MMBtu/hr	--	1.0	24	2,190	8,760	C1
	Flare: Field	001212	NG	239	--	--	1,600	MMBtu/hr	--	1.0	24	2,190	8,760	
	Flare: Field	001211	NG	239	--	--	1,600	MMBtu/hr	--	1.0	24	2,190	8,760	
	Hot Oil Heater #1	001214	NG	80	--	--	3,500	MMBtu/hr	--	1.0	24	2,190	8,760	C2
	Heater #1	113985	NG	80	--	--	2,000	MMBtu/hr	--	1.0	24	2,190	8,760	
	Heater #2	113987	NG	80	--	--	2,000	MMBtu/hr	--	1.0	24	2,190	8,760	
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	12'd x 12'h	ft	10,000	gallons	--	1.0	24	2,190	8,760	D
	Flotation Cell: Tank 2	001220	--	--	12'd x 12'h	ft	10,000	gallons	--	1.0	24	2,190	8,760	
	HC Storage Tank	001217	--	--	10'd x 12'h	ft	7,050	gallons	--	1.0	24	2,190	8,760	
Loading Station	NGL Loading Station	008669	--	--	--	--	7,140	k-gallons/hour	--	1.0	3	4	18	E
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	3,199	comp.leak-path	--	--	--	1.0	24	2,190	8,760	G
	Connections	100883	--	--	14,685	comp.leak-path	--	--	--	1.0	24	2,190	8,760	
	Pr. Relief Dev.	100886	--	--	50	comp.leak-path	--	--	--	1.0	24	2,190	8,760	
	Compressor Seals	100885	--	--	14	comp.leak-path	--	--	--	1.0	24	2,190	8,760	
	Pump Seals	100884	--	--	5	comp.leak-path	--	--	--	1.0	24	2,190	8,760	
					clip total:	17,953								
Emissions (Venting)	Wells -- Pipelines	100903	--	--	--	--	10	MMscf/year	--	1.0	24	2,190	8,760	G
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	680	MMscf/day	--	1.0	24	2,190	8,760	H
Solvent Usage	Solvent Process Operations	008680	--	--	--	--	0.092	gal/hr (non-photochem)	--	1.0	6	548	2,190	I
Permit exempt but federally significant unit	Hot Oil Heater #2	394789	NG	80	--	--	2,000	MMBtu/hr	--	1.0	24	2,190	8,760	C2

**Table 5.1-2 A**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**IC Engines Emission Factors**

Equipment Category	ID#	Equipment: Plant ID & Description	Emission Factors								Units	References*	
			NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG			
Internal Combustion Engine: - Controlled	001199	#2: Ingersoll-Rand LVG-82	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001200	#3: Ingersoll-Rand LVG-82	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001201	#4: Ingersoll-Rand LVG-82	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001202	#5: Ingersoll-Rand LVG-82	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001203	#6: Ingersoll-Rand KVG-62	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001204	#7: Ingersoll-Rand KVG-62	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001205	#8: Ingersoll-Rand KVG-62	0.324	0.321	3.825	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	- Uncontrolled	001206	#9: Cooper-Bessemer GMV-10C	0.4600	2.4950	10.125	0.0129	0.0480	0.0480	0.048	117.10	lb/MMBtu	
Micro-turbine generators	107543	#1: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.10	lb/MMBtu		
	107544	#2: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.10	lb/MMBtu		
	107545	#3: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.10	lb/MMBtu		
	107546	#4: Capstone C60	0.0373	0.0746	0.448	0.0129	0.0066	0.0066	0.0066	117.10	lb/MMBtu		
Emergency Fire Pumps	008666	#12A: Cummins V-378-F2	14.08	1.12	3.03	0.006	0.99	0.99	0.99	117.10	g/bhp-hr		
	008668	#13A: Cummins V-378-F2	14.08	1.12	3.03	0.006	0.99	0.99	0.99	117.10	g/bhp-hr		
Internal Combustion Engine: - Permit exempt but federally significant units	001221	#4A: Waukesha VRG220U	1.905	0.1030	1.6000	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		
	001222	#5A: Waukesha VRG220U	1.905	0.1030	1.6000	0.0129	0.014	0.014	0.014	117.10	lb/MMBtu		

**Table 5.1-2 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Non-IC Engine Equipment Emission Factors**

		Emission Factors											
Equipment Category	Description	ID#	NO <sub>x</sub>	ROC	CO	SO <sub>x</sub>	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	GHG	Units	References*	
Combustion - External	Flare: Field	001215	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.10	lb/MMBtu	C1	
	Flare: Field	001212	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.10	lb/MMBtu		
	Flare: Field	001211	0.095	0.005	0.082	0.041	0.008	0.008	0.008	117.10	lb/MMBtu		
	Hot Oil Heater #1 Heater #1 Heater #2	Hot Oil Heater #1	001214	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.10	lb/MMBtu	C2
		Heater #1	113985	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.10	lb/MMBtu	
		Heater #2	113987	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.10	lb/MMBtu	
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	<b>Calc's are</b>	--	--	--	--	--	--	<b>AP-42, Ch.7</b>	D	
	Flotation Cell: Tank 2	001220	--	<b>based on</b>	--	--	--	--	--	--	<b>Eqn. Units --</b>		
	HC Storage Tank	001217	--	<b>AP42,Ch.7</b>	--	--	--	--	--	--	<b>multiple para.</b>		
Loading Station	NGL Loading Station	008669	--	2.7557	--	--	--	--	--	--	lb/1000 gal	E	
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	0.008	--	--	--	--	--	--	lb/day-clp	G	
	Connections	100883	--	0.002	--	--	--	--	--	--	lb/day-clp		
	Pr. Relief Dev.	100886	--	0.177	--	--	--	--	--	--	lb/day-clp		
	Compressor Seals	100885	--	0.057	--	--	--	--	--	--	lb/day-clp		
	Pump Seals	100884	--	0.030	--	--	--	--	--	--	lb/day-clp		
Emissions (Venting)	Wells -- Pipelines	100903	--	6,789.0	--	--	--	--	--	--	lb/MMscf	G	
Glycol Unit	Flash-tank Unit	100873	--	<b>Gly-Calc 4.0</b>	--	--	--	--	--	--			
Solvent Usage	Solvent Process Operations	008680	--	4.000	--	--	--	--	--	--	lbs./gal	H	
Permit exempt but federally significant unit	Hot Oil Heater #2	394789	0.036	0.005	0.297	0.014	0.008	0.008	0.008	117.10	lb/MMBtu	C2	

\* -- Refer to Attachment 10.1 for References C - H

**Table 5.1-3 A**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**IC Engines Short-Term Permitted Emissions**

Equipment Category	Equipment ID	Equipment: Plant ID & Description	Mass Emission Limits															
			NO <sub>x</sub>		ROC		CO		SO <sub>x</sub>		PM		PM <sub>10</sub>		PM <sub>2.5</sub>		GHG	
			lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day	lb/hr	lb/day
Internal Combustion Engines	001199	#2: Ingersoll-Rand LVG-82	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
- Controlled	001200	#3: Ingersoll-Rand LVG-82	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
	001201	#4: Ingersoll-Rand LVG-82	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
	001202	#5: Ingersoll-Rand LVG-82	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
	001203	#6: Ingersoll-Rand KVG-62	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
	001204	#7: Ingersoll-Rand KVG-62	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
	001205	#8: Ingersoll-Rand KVG-62	2.37	56.76	2.34	56.24	27.92	670.14	0.09	2.26	0.10	2.45	0.10	2.45	0.10	2.45	854.83	20,516
- Uncontrolled	001206	#9: Cooper-Bessemer GMV-10C	4.61	110.62	25.00	600.00	101.45	2,434.86	0.13	3.10	0.48	11.54	0.48	11.54	0.48	11.54	1,173.34	28,160
Micro-turbine generators	107543	#1: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260
	107544	#2: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260
	107545	#3: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260
	107546	#4: Capstone C60	0.03	0.72	0.06	1.44	0.36	8.64	0.01	0.25	0.01	0.13	0.01	0.13	0.01	0.13	94.15	2,260
Emergency Fire Pumps	008666	#12A: Cummins V-378-F2	4.12	8.25	0.33	0.66	0.89	1.78	0.00	0.00	0.29	0.58	0.29	0.58	0.29	0.58	108.90	218
	008668	#13A: Cummins V-378-F2	4.12	8.25	0.33	0.66	0.89	1.78	0.00	0.00	0.29	0.58	0.29	0.58	0.29	0.58	108.90	218
<b>Total for Permitted Engines</b>			<b>29.54</b>	<b>527.35</b>	<b>42.30</b>	<b>1,000.74</b>	<b>300.13</b>	<b>7,163.97</b>	<b>0.83</b>	<b>19.89</b>	<b>1.80</b>	<b>30.38</b>	<b>1.80</b>	<b>30.38</b>	<b>1.80</b>	<b>30.38</b>	<b>7,751.55</b>	<b>181,246</b>
Internal Combustion Engines	001221	#4A: Waukesha VRG220U	0.95	22.86	0.05	1.24	0.80	19.20	0.01	0.15	0.01	0.17	0.01	0.17	0.01	0.17	58.55	1,405
- Permit exempt but federally significant units	001222	#5A: Waukesha VRG220U	0.95	22.86	0.05	1.24	0.80	19.20	0.01	0.15	0.01	0.17	0.01	0.17	0.01	0.17	58.55	1,405
<b>Total for permit exempt engines</b>			<b>1.91</b>	<b>45.72</b>	<b>0.10</b>	<b>2.47</b>	<b>1.60</b>	<b>38.40</b>	<b>0.01</b>	<b>0.31</b>	<b>0.01</b>	<b>0.34</b>	<b>0.01</b>	<b>0.34</b>	<b>0.01</b>	<b>0.34</b>	<b>117.10</b>	<b>2,810.40</b>

**Table 5.1-3 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Non-IC Engines Daily Emissions**

<b>Equipment Category</b>	<b>Description</b>	<b>ID#</b>	<b>NO<sub>x</sub> lb/day</b>	<b>ROC lb/day</b>	<b>CO lb/day</b>	<b>SO<sub>x</sub> lb/day</b>	<b>PM lb/day</b>	<b>PM<sub>10</sub> lb/day</b>	<b>PM<sub>2.5</sub> lb/day</b>	<b>GHG lb/day</b>
Combustion - External	Flare: Field	001215	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001212	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Flare: Field	001211	3.66	0.20	3.16	1.57	0.29	0.29	0.29	4,497
	Hot Oil Heater #1	001214	3.02	0.45	24.95	1.15	0.63	0.63	0.63	9,836
	Heater #1	113985	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
	Heater #2	113987	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5,621
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	0.21	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.21	--	--	--	--	--	--
	HC Storage Tank	001217	--	0.19	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	25.10	--	--	--	--	--	--
	Connections	100883	--	27.34	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	8.87	--	--	--	--	--	--
	Compressor Seals	100885	--	0.80	--	--	--	--	--	--
	Pump Seals	100884	--	0.15	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	186.00	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	52.13	--	--	--	--	--	--
Solvent Usage**	Solvent Process Operations	008680	--	2.21	--	--	--	--	--	--
Permit exempt but federally significant unit	Hot Oil Heater #2	394789	1.73	0.26	14.26	0.66	0.36	0.36	0.36	5620.80

\*\* -- This item does not represent an emissions limit

**Table 5.1-4 A**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**IC Engines Long-Term Permitted Emissions**

Equipment Category	Equipment ID	Equipment: Plant ID & Description	NO <sub>x</sub>		ROC		CO		Mass Emission Limits				GHG						
			TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY	TPQ	TPY			
Internal Combustion Engines - <i>Controlled</i>	001189	#2: Ingersoll-Rand LVG-82	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001200	#3: Ingersoll-Rand LVG-82	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001201	#4: Ingersoll-Rand LVG-82	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001202	#5: Ingersoll-Rand LVG-82	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001203	#6: Ingersoll-Rand KVG-62	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001204	#7: Ingersoll-Rand KVG-62	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	001205	#8: Ingersoll-Rand KVG-62	2.59	10.36	2.57	10.26	30.58	122.30	0.10	0.41	0.11	0.45	0.11	0.45	0.11	0.45	936	3,744	
	- <i>Uncontrolled</i>	001209	#9: Cooper-Bessemer GMV-10C	5.05	20.19	27.37	109.50	111.09	444.36	0.14	0.57	0.53	2.11	0.53	2.11	0.53	2.11	1,285	5,139
Micro-turbine generators	107543	#1: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	107544	#2: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	107545	#3: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
	107546	#4: Capstone C60	0.03	0.13	0.07	0.26	0.39	1.58	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.02	103	412	
Emergency Fire Pumps	008666	#12A: Cummins V-378-F2	0.01	0.04	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.27	1.09	
	008668	#13A: Cummins V-378-F2	0.01	0.04	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.27	1.09	
<b>Total for Permitted Engines</b>			<b>23.33</b>	<b>93.31</b>	<b>45.60</b>	<b>182.42</b>	<b>326.70</b>	<b>1,306.80</b>	<b>0.91</b>	<b>3.65</b>	<b>1.34</b>	<b>5.35</b>	<b>1.34</b>	<b>5.35</b>	<b>1.34</b>	<b>5.35</b>	<b>8,250</b>	<b>33,000</b>	
Internal Combustion Engines - <i>Permit exempt but</i> <i>federally significant units</i>	001221	#4A: Waukesha VRG220U	1.04	4.17	0.06	0.23	0.88	3.50	0.01	0.03	0.01	0.03	0.01	0.03	0.01	0.03	64.1	256.4	
	001222	#5A: Waukesha VRG220U	1.04	4.17	0.06	0.23	0.88	3.50	0.01	0.03	0.01	0.03	0.01	0.03	0.01	0.03	64.1	256.4	
<b>Total for permit exempt engines</b>			<b>2.09</b>	<b>8.34</b>	<b>0.11</b>	<b>0.45</b>	<b>1.75</b>	<b>7.01</b>	<b>0.01</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>0.02</b>	<b>0.06</b>	<b>128.22</b>	<b>512.80</b>	



**Table 5.1-4 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Non-IC Engines Annual Emissions**

<b>Equipment Category</b>	<b>Description</b>		<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>GHG</b>
			<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>	<b>TPY</b>
Combustion - External	Flare: Field	001215	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001212	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Flare: Field	001211	0.67	0.04	0.58	0.29	0.05	0.05	0.05	820.64
	Hot Oil Heater #1	001214	0.55	0.08	4.55	0.21	0.11	0.11	0.11	1,795.14
	Heater #1	113985	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
	Heater #2	113987	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	0.04	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	0.04	--	--	--	--	--	--
	HC Storage Tank	001217		0.03	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	4.58	--	--	--	--	--	--
	Connections	100883	--	4.99	--	--	--	--	--	--
	Pr. Relief Dev.	100886	--	1.62	--	--	--	--	--	--
	Compressor Seals	100885	--	0.15	--	--	--	--	--	--
	Pump Seals	100884	--	0.03	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	33.95	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	9.51	--	--	--	--	--	--
Solvent Usage**	Solvent Process Operations	008680	--	0.40	--	--	--	--	--	--
Permit exempt but federally significant unit	Hot Oil Heater #2	394789	0.32	0.05	2.60	0.12	0.07	0.07	0.07	1,025.80

\*\* -- This item does not represent an emissions limit

**Table 5.2**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Facility Permitted Potential to Emit (FPTE)**

**A. DAILY (lb/day)**

<b>Equipment Category</b>	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>GHG</b>
Combustion -- IC Engines	527.35	1,000.74	7,163.97	19.89	30.38	30.38	30.38	181,246
Combustion - External	17.45	1.56	62.95	7.19	2.21	2.21	2.21	34,568
HC Liquid Storage Tanks	--	0.61	--	--	--	--	--	--
Loading Station	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	62.26	--	--	--	--	--	--
Emissions (Venting)	--	186.00	--	--	--	--	--	--
Glycol unit	--	52.13	--	--	--	--	--	--
Solvent Usage**	--	2.21	--	--	--	--	--	--
<b>TOTAL:</b>	<b>544.80</b>	<b>1,360.61</b>	<b>7,226.92</b>	<b>27.08</b>	<b>32.60</b>	<b>32.60</b>	<b>32.60</b>	<b>215,813</b>

**B. ANNUAL (tpy)**

<b>Equipment Category</b>	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>GHG</b>
Combustion -- IC Engines	93.31	182.42	1,306.80	3.65	5.35	5.35	5.35	33,000
Combustion - External	3.18	0.28	11.49	1.31	0.40	0.40	0.40	6,309
HC Liquid Storage Tanks	--	0.11	--	--	--	--	--	--
Loading Station	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/LL Service)	--	11.36	--	--	--	--	--	--
Emissions (Venting)	--	33.95	--	--	--	--	--	--
Glycol unit	--	9.51	--	--	--	--	--	--
Solvent Usage**	--	0.40	--	--	--	--	--	--
<b>TOTAL:</b>	<b>96.50</b>	<b>238.20</b>	<b>1,318.29</b>	<b>4.96</b>	<b>5.76</b>	<b>5.76</b>	<b>5.76</b>	<b>39,309</b>

\*\* -- This item does not represent an emissions limit



**Table 5.3**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Facility Federal Potential to Emit (PTE-Fed)**

**A. DAILY (lb/day)**

<b>Equipment Category</b>	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>GHG</b>
Combustion -- IC engines	573.07	1,003.21	7,202.37	20.20	30.72	30.72	30.72	181,246
Combustion - external	19.18	1.82	77.21	7.85	2.57	2.57	2.57	40,189
HC Liquid Storage Tanks	--	0.61	--	--	--	--	--	--
Loading Station	--	55.09	--	--	--	--	--	--
Fugitive Components (Gas/LL Service	--	0.00	--	--	--	--	--	--
Emissions (Venting)	--	186.00	--	--	--	--	--	--
Glycol unit	--	52.13	--	--	--	--	--	--
Solvent Usage**	--	2.21	--	--	--	--	--	--
<b>TOTAL:</b>	<b>592.25</b>	<b>1,301.07</b>	<b>7,279.58</b>	<b>28.05</b>	<b>33.29</b>	<b>33.29</b>	<b>33.29</b>	<b>221,434</b>

**B. ANNUAL (tpy)**

<b>Equipment Category</b>	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>	<b>GHG</b>
Combustion -- IC engines	101.66	182.87	1,313.80	3.70	5.41	5.41	5.41	33,000
Combustion - External	3.50	0.33	14.09	1.43	0.47	0.47	0.47	7,334
HC Liquid Storage Tanks	--	0.11	--	--	--	--	--	--
Loading Station	--	0.17	--	--	--	--	--	--
Fugitive Components (Gas/LL Service	--	0.00	--	--	--	--	--	--
Emissions (Venting)	--	33.95	--	--	--	--	--	--
Glycol unit	--	9.51	--	--	--	--	--	--
Solvent Usage**	--	0.40	--	--	--	--	--	--
<b>TOTAL:</b>	<b>105.16</b>	<b>227.34</b>	<b>1,327.89</b>	<b>5.14</b>	<b>5.88</b>	<b>5.88</b>	<b>5.88</b>	<b>40,334</b>



**Table 5.4-1 B**  
**SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7**  
**Non-IC Engines Hazardous Air Pollutant Emission Factors**

Equipment Category	Description	Device ID	Axialaldehyde	Acrolein	Benzene	Ethylbenzene	Formaldehyde	Hexane	Naphthalene	PAHs (total naphthalene)	Toluene	Xylenes	Acetic	Beryllium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium	Units	References	
Combustion - External	Flare, Field	001215	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	E	
	Flare, Field	001212	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	E	
	Flare, Field	001211	4.30E-02	1.00E-02	1.59E-01	1.44E+00	1.17E+00	2.90E-02	1.10E-02	3.00E-03	5.80E-02	2.90E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	E	
	Hot Oil Heater #1	001214	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	F	
	Heater #1	113985	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	F	
	Heater #2	113987	4.30E-03	2.70E-03	8.00E-03	9.50E-03	1.70E-02	6.30E-03	3.00E-04	1.00E-04	3.66E-02	2.72E-02	2.00E-04	1.20E-05	1.10E-03	1.40E-03	8.40E-05	3.80E-04	2.60E-04	2.10E-03	2.40E-05	lb/MMcf	F	
HC Liquid Storage Tanks	Flotation Cell, Tank 1	001219	—	—	2.71E-02	—	—	5.31E-02	—	—	1.58E-02	—	—	—	—	—	—	—	—	—	—	lb/b ROC	G	
	Flotation Cell, Tank 2	001220	—	—	2.71E-02	—	—	5.31E-02	—	—	1.58E-02	—	—	—	—	—	—	—	—	—	—	lb/b ROC	G	
	HC Storage Tank	001217	—	—	2.71E-02	—	—	5.31E-02	—	—	1.58E-02	—	—	—	—	—	—	—	—	—	—	lb/b ROC	G	
Loading Station	NGL Loading Station	008669	—	—	1.79E-03	—	—	1.77E-01	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	H	
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
	Connections	100883	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
	Pr. Relief Dev	100888	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
	Compressor Seals	100885	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
	Pump Seals	100884	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
Emissions (Venting)	Wells -- Pipelines	100903	—	—	3.25E-03	—	—	4.41E-02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	lb/b ROC	I
Glycol Unit <sup>1</sup>	Flash-Jank Unit	100873	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	n/a		
Solvent Usage	Solvent Process Operations	008680	—	—	5.00E-02	—	—	—	—	—	5.00E-02	5.00E-02	—	—	—	—	—	—	—	—	—	—	lb/b ROC	J

References:

- E1 - VCAPCD, AB 2588 Combustion Emission Factors, Natural Gas Fired External Combustion Equipment - flare (May 2001)
- E2 - USEPA, AP-42 Table 1.4-4, Emission Factors for Metals from Natural Gas Combustion (July 1998)
- F1 - VCAPCD, AB 2588 Combustion Emission Factors, Natural Gas Fired External Combustion Equipment - <10 MMBTU/h (May 2001)
- F2 - USEPA, AP-42 Table 1.4-4, Emission Factors for Metals from Natural Gas Combustion (July 1998)
- G - Emission factors for benzene, heptane and toluene are from CARB Speciation Manual Second Edition, Profile Number 297, Crude Oil Evaporation - Vapor Composite from Freed Roof Tanks (August 1991); iso-octane (i.e., 2,2,4-trimethylpentane) was excluded because iso-octane is not expected in the gas handled at this facility
- H - Emission factors for benzene and heptane are from CARB Speciation Manual Second Edition, Profile Number 756, Oil & Gas Production Fugitives - Liquid Service (August 1991); iso-octane (i.e., 2,2,4-trimethylpentane) was excluded because iso-octane is not expected in the gas handled at this facility
- I1 - Emission factor for heptane is based on the Hydrocarbon Analysis for Goleta Storage Field performed by the Engineering Analysis Center in April 2015
- I2 - Emission factor for benzene is from CARB Speciation Manual Second Edition, Profile Number 757, Oil & Gas Production Fugitives - Gas Service (August 1991); iso-octane (i.e., 2,2,4-trimethylpentane) was excluded because iso-octane is not expected in the gas handled at this facility
- J - APCD: Solvents assumed to contain 5% benzene, 5% toluene, 5% xylene

Notes:

- 1. There are no hazardous air pollutants emitted from this equipment



**Table 5.4-2 B  
SoCalGas La Goleta Plant: Part70/Permit to Operate 9584-R7  
Non-IC Engines Annual Hazardous Air Pollutant Emissions (TPY)**

Equipment Category	Description	Device ID	Acetaldehyde	Acrolein	Benzene	Ethylbenzene	Formaldehyde	Hexane	Naphthalene	PAHs (not incl. naphthalene)	Toluene	Xylenes	Arsenic	Barium	Cadmium	Chromium	Cobalt	Manganese	Mercury	Nickel	Selenium
Combustion - External <sup>2</sup>	Flare: Field	001215	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Flare: Field	001212	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Flare: Field	001211	2.87E-04	6.67E-05	1.06E-03	9.64E-03	7.80E-03	1.94E-04	7.34E-05	2.00E-05	3.87E-04	1.94E-04	1.33E-06	8.01E-08	7.34E-06	9.34E-06	5.61E-07	2.54E-06	1.74E-06	1.40E-05	1.60E-07
	Hot Oil Heater #1	001214	6.28E-05	3.94E-05	1.17E-04	1.39E-04	2.48E-04	9.20E-05	4.38E-06	1.46E-06	5.34E-04	3.97E-04	2.92E-06	1.75E-07	1.61E-05	2.04E-05	1.29E-06	5.55E-06	3.80E-06	3.07E-05	3.50E-07
	Heater #1	113985	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07
	Heater #2	113987	3.59E-05	2.25E-05	6.67E-05	7.93E-05	1.42E-04	5.26E-05	2.50E-06	8.34E-07	3.05E-04	2.27E-04	1.67E-06	1.00E-07	9.18E-06	1.17E-05	7.01E-07	3.17E-06	2.17E-06	1.75E-05	2.00E-07
HC Liquid Storage Tanks	Flotation Cell: Tank 1	001219	--	--	1.08E-03	--	--	2.12E-03	--	--	6.33E-04	--	--	--	--	--	--	--	--	--	--
	Flotation Cell: Tank 2	001220	--	--	1.08E-03	--	--	2.12E-03	--	--	6.33E-04	--	--	--	--	--	--	--	--	--	--
	HC Storage Tank	001217	--	--	8.14E-04	--	--	1.59E-03	--	--	4.75E-04	--	--	--	--	--	--	--	--	--	--
Loading Station	NGL Loading Station	008669	--	--	3.08E-04	--	--	3.04E-02	--	--	--	--	--	--	--	--	--	--	--	--	
Fugitive Components (Gas/Light Liquid Service)	Valves	100882	--	--	1.66E-02	--	--	2.25E-01	--	--	--	--	--	--	--	--	--	--	--	--	--
	Connections	100883	--	--	1.87E-02	--	--	2.54E-01	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pr. Relief Dev.	100880	--	--	5.15E-03	--	--	7.00E-02	--	--	--	--	--	--	--	--	--	--	--	--	--
	Compressor Seals	100885	--	--	4.73E-04	--	--	6.42E-03	--	--	--	--	--	--	--	--	--	--	--	--	--
	Pump Seals	100884	--	--	8.85E-05	--	--	1.20E-03	--	--	--	--	--	--	--	--	--	--	--	--	--
Emissions (Venting)	Wells -- Pipelines	100903	--	--	1.10E-01	--	--	1.50E+00	--	--	--	--	--	--	--	--	--	--	--	--	--
Glycol Unit	Flash-tank Unit	100873	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Solvent Usage	Solvent Process Operations	008680	--	--	2.01E-02	--	--	--	--	2.01E-02	2.01E-02	--	--	--	--	--	--	--	--	--	--
<b>Non-IC Engines Total HAPs (TPY):</b>			<b>9.96E-04</b>	<b>2.85E-04</b>	<b>1.78E-01</b>	<b>2.92E-02</b>	<b>2.39E-02</b>	<b>2.09E+00</b>	<b>2.30E-04</b>	<b>6.32E-05</b>	<b>2.42E-02</b>	<b>2.16E-02</b>	<b>1.03E-05</b>	<b>6.16E-07</b>	<b>5.64E-05</b>	<b>7.18E-05</b>	<b>4.31E-06</b>	<b>1.95E-05</b>	<b>1.33E-05</b>	<b>1.08E-04</b>	<b>1.23E-06</b>

Notes:  
2. The default higher heating value of 1050 Btu/scf for natural gas was assumed.



## **6.0 Air Quality Impact Analyses**

### **6.1 Modeling**

Air quality modeling was not required for this stationary source.

### **6.2 Increments**

An air quality increment analysis was not required for this stationary source

### **6.3 Monitoring**

Air quality monitoring is not required for this stationary source.

### **6.4 Health Risk Assessment**

The SoCalGas La Goleta stationary source is subject to the Air Toxics Hot-Spots Program (AB-2588). A health risk assessment (HRA) for the facility was prepared by the District on May 22, 1996 under the requirements of the Air Toxics “Hot Spots” Information and Assessment Act of 1987 (AB 2588). The HRA is based on 1994 toxic emissions inventory data submitted to the District by SoCalGas.

Based on the 1994 toxic emissions inventory, a cancer risk of 7 per million off the property was estimated for the La Goleta facility. This risk is primarily due to emissions of polycyclic aromatic hydrocarbon (PAH) from internal combustion devices (generators, cranes, heaters, compressors, etc.). Additionally, a chronic risk of 0.10 has been estimated by the District and is mainly due to acrolein emissions for internal combustion devices. The cancer and non-cancer chronic risk projections are well below the District’s AB-2588 significance thresholds of 10 in a million and 1.0 in a million, respectively.

## **7.0 CAP Consistency, Offset Requirements and ERCs**

### **7.1 General**

Santa Barbara County has not attained the state  $PM_{10}$  air quality standards. Therefore, emissions from all emission units at the stationary source and its constituent facilities must be consistent with the provisions of the USEPA and State approved Clean Air Plans (CAP) and must not interfere with progress toward attainment of federal and state ambient air quality standards. Under District regulations, any modifications at the source that result in an emission increase of any nonattainment pollutant exceeding 25 lbs/day must apply BACT (NAR). Increases above offset thresholds will trigger offsets at the source or elsewhere so that there is a net air quality benefit for Santa Barbara County. These offset threshold levels are 240 lbs/day for all attainment pollutants and precursors (except carbon monoxide and  $PM_{2.5}$ ) and 25 tons/year for all non-attainment pollutants and precursors (except carbon monoxide and  $PM_{2.5}$ ).

On July 1, 2020, Santa Barbara County achieved attainment for the State ozone standards. This change was initiated by the California Air Resources Board (CARB) at their December 2019 public hearing and it was later approved by the Office of Administrative Law.

### **7.2 Clean Air Plan**

The 2007 Clean Air Plan, adopted by the District Board on August 16, 2007, addressed both federal and state requirements, serving as the maintenance plan for the federal eight-hour ozone standard and as the state triennial update required by the Health and Safety Code to demonstrate

how the District will expedite attainment of the state eight-hour ozone standard. The plan was developed for Santa Barbara County as required by both the 1998 California Clean Air Act and the 1990 Federal Clean Air Act Amendments.

In December 2019 the District Board adopted the 2019 Ozone Plan. The 2019 Plan provides a three-year update to the 2010 Clean Air Plan. As Santa Barbara County has only recently attained the state eight-hour ozone standard, the 2019 Clean Air Plan demonstrates how the District plans to maintain that standard. The 2019 Clean Air Plan therefore satisfies all state triennial planning requirements..

### **7.3 Offset Requirements**

The SoCalGas La Goleta stationary source exceeds the emission offset thresholds of Regulation VIII for NO<sub>x</sub> and ROC emissions, however this stationary source did not become subject to the emission offset requirements of Regulation VIII until adoption of revised Rule 802 in August 2016. Therefore, SoCalGas is not required to provide emission reduction credits for the emissions associated with this permit.

### **7.4 Emission Reduction Credits**

The SoCalGas La Goleta stationary source has historically generated and provided NO<sub>x</sub> emission reduction credits to the Point Arguello Project, as follows:

- Seven compressor engines, units #2 - #8, provided the emission reduction credits. Each of the seven engines is equipped with a NO<sub>x</sub> abatement system. The system consists of a non-selective catalytic converter aided by an automatic air-fuel-ratio controller. The NO<sub>x</sub> control provides a minimum NO<sub>x</sub> emission reduction of 90%.

#### Estimated minimum reductions:

The expected minimum NO<sub>x</sub> emission reduction for each engine, based on PTO 7500, was estimated as follows:

- Uncontrolled NO<sub>x</sub> emissions from each engine = 3,400 lb/MMscf = 3.238 lb/MMBtu
- Minimum emissions reduction from each engine = 0.9 \* 3.238 = 2.914 lb/MMBtu
- Anticipated average heat input/engine (minimum annual fuel data) = 3.19 MMBtu/hour
- Expected minimum NO<sub>x</sub> emission reductions/engine = 2.914 \* 3.19 = 9.296 lb/hr
- *Expected NO<sub>x</sub> emission reductions from the Plant* = 7 \* 9.296 \* 8760 / 2000 = 285 tons/yr

Out of the total annual NO<sub>x</sub> emissions reduction of 285 tons expected to be achieved at the La Goleta Plant, 96.06 tons are currently allotted to the Point Arguello Project (i.e., the Outer Continental Shelf components only of the Project). The Point Arguello Project is currently in the process of being decommissioned. SoCalGas may not use these emission reduction credits for other projects.

The emission reduction credits provided by the La Goleta source are verified through quarterly recording and reporting of quantities of emissions captured. Annual source tests are the mechanisms for verifying the emission reduction credits achieved. Operational compliance to ensure ERCs is also verified through on-site inspections. The operating requirements to ensure these emission reductions are stipulated in Section 9.C.1 of this permit.



## **8.0 Lead Agency Permit Consistency**

To the best of the District's knowledge, no other government agency's permit requires air quality mitigation for emissions pursuant to this District reevaluation permit 9584-R7 issued for the SoCalGas La Goleta stationary source.

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## 9.0 Permit Conditions

This section lists the applicable permit conditions for the La Goleta Gas Plant. Section A lists the standard administrative conditions. Section B lists 'generic' permit conditions, including emission standards, for all equipment in this permit. Section C lists conditions affecting specific equipment. Section D lists non-federally enforceable (i.e., District only) permit conditions. Conditions listed in Sections A, B and C are enforceable by the USEPA, the District, the State of California and the public. Conditions listed in Section D are enforceable only by the District and the State of California. Where any reference contained in Sections 9.A, 9.B, and 9.C refers to any other part of this permit that part of the permit referred to is federally enforceable. In case of a discrepancy between the wording of a condition and the applicable federal or District rule(s), the wording of the rule(s) shall control.

For the purposes of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this permit, nothing in the permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test had been performed.

### 9.A Standard Administrative Conditions

The following administrative permit conditions apply to La Goleta facility:

#### A.1 Compliance with Permit Conditions.

- (a) The permittee shall comply with all permit conditions in Sections 9.A, 9.B and 9.C.
- (b) This permit does not convey property rights or exclusive privilege of any sort.
- (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.
- (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.
- (e) A pending permit action or notification of anticipated noncompliance does not stay any permit condition.
- (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.
- (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]

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*]

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*]

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*]

A.5 **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.*]

A.6 **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)*]

A.7 **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)]

A.8 **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)]

A.9 **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]

A.10 **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]

A.11 **Conditions for Permit Reopening.** The permit shall be reopened and revised for cause under any of the following circumstances:

- (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.

- (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) **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.

Administrative procedures to reopen and revise/revoke/reissue a permit shall follow the same procedures as apply to initial permit issuance. Re-openings shall affect only those parts of the permit for which cause to reopen exists. If the permit is reopened, and revised, it will be reissued with the expiration date that was listed in the permit before the re-opening.

[*Re: 40 CFR 70.7(f)(1)-(3), 40 CFR 70.6(a)(2)*]

- A.12 **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*]
- A.13 **Grounds for Revocation.** Failure to abide by and faithfully comply with this permit or any Rule, Order, or Regulation may constitute grounds for the APCO to petition for permit revocation pursuant to California Health & Safety Code Section 42307 *et seq.*
- A.14 **Severability.** In the event that any condition herein is determined to be invalid, all other conditions shall remain in force

## 9.B Generic Conditions

The generic conditions listed below apply to all emission units, regardless of their category or emission rates. In case of a discrepancy between the wording of a condition and the applicable District rule, the wording of the rule shall control.

- 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.
- 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 Ringlemann 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.

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*].

- 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.
- 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.
- 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.



- 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 H<sub>2</sub>S 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.
- B.7 **Organic Solvents (Rule 317).** The permittee shall comply with the emission standards listed in Rule 317.B. Compliance with this condition shall be based on the permittee's compliance with Condition 9.C.10 of this permit. [*Re: District Rule 317*]
- B.8 **Metal Surface Coating Thinner and Reducer (Rule 322).** The use of photochemically reactive solvents as thinners or reducers in metal surface coatings is prohibited. Compliance with this condition shall be based on the permittee's compliance with Condition 9.C.10 of this permit and facility inspections. [*Re: District Rule 322*]
- B.9 **Architectural Coatings (Rule 323.1).** The permittee shall comply with the coating ROC content and handling standards listed in Rule 323.D as well as the Administrative requirements listed in Section F of Rule 323. Compliance with this condition shall be based on the permittee's compliance with Condition 9.C.10 of this permit and facility inspections. [*Re: District Rules 323, 317, 322, 324*]
- B.10 **Disposal and Evaporation of Solvents (Rule 324).** the permittee 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 the permittee's compliance with Condition 9.C.10 of this permit and facility inspections. [*Re: District Rule 324*].
- B.11 **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
  - (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.
- 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.

- 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.
- B.14 **Emergency Episode Plan (Rule 603).** During emergency episodes, SoCalGas shall implement the most current District-approved *Emergency Episode Plan*.
- B.15 **CARB Registered Portable Equipment.** State registered portable equipment (e.g., IC engines) 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]*

### 9.C Requirements and Equipment Specific Conditions

Federally-enforceable conditions, including emissions and operations limits, monitoring, recordkeeping and reporting are included in this section for each specific group of equipment. This section may also contain other non-generic conditions.

#### C.1 Internal Combustion Engines Providing Emission Reduction Credits (ERCs). The following IC engine equipment items are included in this emissions unit category:

**Table C.1-1 — IC Engines Providing Emission Reduction Credits (ERCs)**

District ID#	Plant ID#	Equipment Item (IC Engine) Description
1199	#2	Ingersoll-Rand LVG-82, SN 8AL126; 650 hp gas compressor
1200	#3	Ingersoll-Rand LVG-82, SN 8AL129; 650 hp gas compressor
1201	#4	Ingersoll-Rand LVG-82, SN 8AL128; 650 hp gas compressor
1202	#5	Ingersoll-Rand LVG-82, SN 8AL127; 650 hp gas compressor
1203	#6	Ingersoll-Rand KVG-62, SN 6EL265; 660 hp gas compressor
1204	#7	Ingersoll-Rand KVG-62, SN 6EL266; 660 hp gas compressor
1205	#8	Ingersoll-Rand KVG-62, SN 6EL267; 660 hp gas compressor

- (a) **Emission Limitations.** Mass emissions from the IC engines with Plant IDs #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.

**Table C.1-2 - Emission Concentration Limits for IC Engines Providing ERCs**

District ID#	Plant ID#	Rich or Lean Burn?	Pollutant Name	Emission Limit: Concentration (ppmvd)	Emission Limit: Mass Rate (lbs/hr)
1199 thru 1205	#2 - #8	Rich Burn	NO <sub>x</sub>	50 ppmv @ 15% O <sub>2</sub> or 90% control and 0.324 lb/MMBtu	2.37
1199 thru 1205	#2 - #8	Rich Burn	ROC	250 ppmv @ 15% O <sub>2</sub> and 0.32 lb/MMBtu	2.34
1199 thru 1205	#2 - #8	Rich Burn	CO	1,700 @ 15% O <sub>2</sub>	27.92

SoCal Gas may demonstrate compliance with the NO<sub>x</sub> emission limits listed above either by meeting the exhaust concentration limit, or by both demonstrating at least 90% control of NO<sub>x</sub> across the catalyst and meeting the emission factor limit of 0.324 lb/MMBtu.

- (b) **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.
  - (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.

(iii) *Heat Input Limits* - The following heat input limits apply to the IC engines:

District ID#	Plant ID #	Maximum Hourly Heat Input (MMBtu/hour)	Maximum Annual Heat Input (MMBtu/year)
1199 through 1205	#2 – #8	7.30 for each engine	63,948 for each engine

(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.

(v) *Catalyst Operation* - Engines #2 through #8 above shall be equipped with a three-way non-selective catalytic reduction (NSCR) device on each engine to reduce hazardous air pollutants (HAP) as well as NO<sub>x</sub>, ROC, and CO from these engines. The catalysts shall operate at all times the engines are operating.

(vi) *Automatic Shutdown* - Operate equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1,250°F.

(vii) *Formaldehyde Emissions* - Formaldehyde emissions shall not exceed 2.7 ppmvd at 15% oxygen. Compliance with this requirement shall be determined through annual source tests and an initial performance test.

(viii) *IC Engines Providing ERCs* - For all IC engines above, the following operational limits shall apply:

- 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.
- 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. Engine/Catalyst Operation - The performance standards of each NO<sub>x</sub> emission control device shall be maintained consistent with the *IC Engine I&M Plan*.
- 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.
- E. Replacement Reporting - SoCalGas shall inform the District via telephone within 24 hours and in writing, or via e-mail to [enfr@sbcapcd.org](mailto:enfr@sbcapcd.org), 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 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 this permit. If a catalyst element is replaced, monitoring shall be conducted in accordance with the procedures specified in the *IC Engine I&M Plan*.

- 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.
- 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).

For the purposes of this condition, shift in load is defined as a redirecting of fuel from a controlled emission unit to an uncontrolled emission unit for the sole purpose of increasing the uncontrolled emission unit's baseline fuel usage resulting in the generation of false surplus ERCs. If such shift in load does occur, the increased emissions at the uncontrolled emission unit shall not be considered in any baseline calculation for possible ERC for that uncontrolled emission unit.

- H. Monitoring Of Engine Operation - Each engine shall be equipped with a non-resettable hour meter to record its hours of operation.

(c) **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 (as specified in Table 5.1-3) 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% 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.
- (iii) *General Monitoring* - For the I.C engines listed in Table C.1-1 above, 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 H<sub>2</sub>S 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*.
- (d) **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:
- (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 H<sub>2</sub>S 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, NO<sub>x</sub> 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) above.
  - (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 above.

(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.2 **Internal Combustion Engines Not Providing ERCs.** The following IC engine equipment items are included in this emissions unit category:

**Table C.2-1 — IC Engines not Providing ERCs**

District ID#	Plant ID#	Equipment Item (IC Engine) Description
001206	#9	<i>Cooper-Bessemer GMV-10C; 1,100 hp gas compressor</i>
001221*	#4A	<i>Waukesha VRG-220U; 48 hp driving air compressor</i>
001222*	#5A	<i>Waukesha VRG-220U; 48 hp driving air compressor</i>
008665*	<i>Emergency Generator</i>	<i>Waukesha F817GU; 160 hp</i>
008666	#12A	<i>133 bhp Cummins Model V-378-F2 diesel-fired emergency standby firewater pump engine</i>
008668	#13A	<i>133 bhp Cummins Model V-378-F2 diesel-fired emergency standby firewater pump engine</i>

\*-- *Items in italics are District permit-exempt; however, they are not District Rule exempt*

**Table C.2-2 - Emission Concentration Limits for IC engines not Providing ERCs**

District ID#	Plant ID#	Rich or Lean Burn	Pollutant Name	Emission Limit: Concentration (ppmvd)	Emission Limit: Mass Rate (lbs/hr)
001206	#9	Lean Burn	NO <sub>x</sub>	125 @ 15% O <sub>2</sub>	4.61
			VOC (ROC)	750 @ 15% O <sub>2</sub>	25.00
			CO	4,500 @ 15% O <sub>2</sub>	101.45

(a) **Emission Limits:** Mass emissions from the IC engine Plant ID #9 shall not exceed the limits listed in Tables 5.1-3 and 5.1-4 or the emission concentrations listed in Table C.2-2 above. Compliance with these limits shall be assessed through compliance with the monitoring (includes source testing and *ICE I&M Plan*), record keeping and reporting conditions listed below in this permit.

(b) **Operational Limits:** The operational limitations listed below shall apply to the IC engine (Plant ID #9) listed in Table C.2-1 above. Compliance with these limits shall be assessed through compliance with the monitoring, record keeping and reporting conditions listed in this permit section.



- (i) *Fuel Use* - Only natural gas shall be used as fuel.
- (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.
- (iii) *Heat Input Limits* - The following heat input limits apply to the IC engine Plant ID #9: 10.02 MMBtu per hour and 87,795 MMBtu per year.
- (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 Plans and their subsequent District-approved updates for all IC engines subject to Rule 333.
- (v) Gas Compressor #9 (Device ID #001206)
  - A. Change the oil and filter every 4,320 hours of operation or annually, whichever comes first. 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.
  - B. 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.
  - C. Inspect the spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
  - D. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
- (vi) Firewater Pumps (Device IDs #008666 and #008668)
  - A. Change the oil and filter every 500 hours of operation or annually, whichever comes first.
  - B. 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.
  - C. 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.

- D. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - E. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - F. These engines shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel..
- (vi) Emergency Generator (Device ID #008665)
- A. Change the oil and filter every 500 hours of operation or annually, whichever comes first.
  - B. 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.
  - C. 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.
  - D. Inspect the spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - E. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - F. 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.
- (vii) Air Compressors (Device IDs #001221 and #001222)
- A. Change the oil and filter every 1,440 hours of operation or annually, whichever comes first.
  - B. Inspect the spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.
  - C. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

- D. 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.
  - E. 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) **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) 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<sub>2</sub>S 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*.
- (d) **Recordkeeping:** 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 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 H<sub>2</sub>S 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, NO<sub>x</sub> 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) In addition, the following requirements from 40 CFR 63 Subpart ZZZZ §63.6655 and §63.6660 shall be met:
  - A. 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.
    6. 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.
    7. 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.

8. 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.
- (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.3. **Micro-Turbines.** The following equipment is included in this emissions unit category:

Device No	Name
107543	#1: Capstone C60, Micro-Turbine, 60 kW / 0.804 MMBtu/hr
107544	#2: Capstone C60, Micro-Turbine, 60 kW / 0.804 MMBtu/hr
107545	#3: Capstone C60, Micro-Turbine, 60 kW / 0.804 MMBtu/hr
107546	#4: Capstone C60, Micro-Turbine, 60 kW / 0.804 MMBtu/hr

- (a) **Emission Limits:** 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 NO<sub>x</sub>, 6 lb/MW-hr CO, and 1 lb/MW-hr ROC.

- (b) **Operational Limits:** The permitted equipment is subject to the following operational restrictions:
- (i) *PUC Quality Natural Gas Fuel Sulfur Limit.* The total sulfur and hydrogen sulfide (H<sub>2</sub>S) content (calculated as H<sub>2</sub>S at standard conditions, 60°F 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.
- (ii) *Fuel Type Restrictions.* 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) **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<sub>2</sub>S 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) above. Table.4.4 of this PTO shows the pollutants and process parameters that are to be monitored when the micro-turbines are source tested.
- (d) **Recordkeeping:** 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<sub>2</sub>S content, both in units of ppmvd, of the fuel gas burned in the micro-turbines.
- (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.4 **Process Heaters:** The following items are included in this emissions unit category:

**Table C.4 — Process Heaters**

District ID#	Plant ID#	Equipment Item (IC Engine) Description
001214	HOH #1	Fulton Thermal Corporation 3.500 MMBtu/hr hot oil heater
113985		Parker 2.000 MMBtu/hr gas pre-heater
113987		Parker 2.000 MMBtu/hr gas pre-heater

- (a) **Emission Limitations/Standards.** The emissions from the equipment permitted herein shall not exceed the values listed in Tables 5.1-3 B and 5.1-4 B. District Device #001214 shall not exceed 30 ppm @ 3% O<sub>2</sub> NO<sub>x</sub> or 400 ppm @ 3% O<sub>2</sub> CO. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.
- (b) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:
- (i) *Heat Input Limits.* The hourly, daily and annual heat input limits to each unit shall not exceed the values listed in Table 5.1-1 B. 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 1,050 Btu/scf shall be used for determining compliance.

- (ii) *Public Utility Natural Gas Fuel Sulfur Limit.* The total sulfur and hydrogen sulfide (H<sub>2</sub>S) content (calculated as H<sub>2</sub>S 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.
  - (iii) *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.
  - (iv) *External Combustion Units – Permits Required.*
    - A. 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.
    - 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 2.000 MMBtu/hr.
    - 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) **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) in device ID 001214 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) *Rule 361 Compliance Determination.* The following compliance determinations are applicable to units subject to Rule 361:
    - A. Existing Units Rated Between 2.0 - 5.0 MMBtu/hr. Existing units (i.e., units installed prior to January 17, 2008), except those which qualify for the Rule 361.D.2 low use exemption, are subject to biannual tunings after January 1, 2020. If the unit does not operate throughout a continuous six-month period within a calendar year, then only one tune-up is required for that calendar year.

- B. Rule 361 Non-Operational Test Firing. No tune-up is required during a calendar year for any unit subject to Rule 361 that is not operated during that calendar year. This unit may be test fired to verify availability of the unit for its intended use but once test firing is completed it shall be shutdown. If test firing exceeds 24 hours per year, then tune-ups shall follow the requirements of Rule 361.G.1.
  - C. Non-Compliance with Emission Standards. If the unit subject to this permit is found to be in noncompliance with the Table 2 emission standards as a result of a tune-up, the permittee shall notify the District in writing within 7 days. The notification shall include a copy of the *Rule 361 Tune-Up Report*, the actions taken to get the unit into compliance, and the next steps to achieve compliance. Failure to bring the unit into compliance with the Table 2 emission standards within 15 days of the initial tune-up attempt shall constitute a violation of this permit.
- (iv) *Rule 361 Source Testing.* APCD Device No. 001214 shall be source tested upon District request. Source test parameters are listed in Table 4.5.
  - (v) *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.
- (d) **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:
- (i) *Fuel Use – Device ID 1214.* 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. For units subject to Rule 361 tuning requirements, copies of all *Rule 361 Tune-Up Reports* as specified in Step 12 of Procedure A and/or Step 6 of Procedure B of the tuning Attachment to Rule 361.
  - (v) *Maintenance Logs.* Maintenance logs for the unit(s) and fuel meter (as applicable).
  - (vi) *Rule 361 Non-Operational Test Firing.* A log that documents the date and number of hours that the unit was test fired in accordance with Rule 361.G.3.
  - (vii) *Source Test Reports.* Source test reports for all District-required stack emission tests.



- (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.5 **Flares.** The following equipment items are included in this emissions unit category:

**Table C.5 - List of Flares**

<b>District ID#</b>	<b>Equipment Item Description</b>
001211	Flare – serving Glycol unit; 1.600 MMBtu/hr, pilot fired with PUC natl. gas
001212	Flare – serving Glycol unit; 1.600 MMBtu/hr, pilot fired with PUC natl. gas
001215	Flare; 1.600 MMBtu/hr, pilot fired with PUC natural gas
104915	SulfaTreat Unit; Cameron, Kleen Air, 46” dia. by 88” high, 4950 lbs.
113418	SulfaTreat Unit; Cameron, Kleen Air, 46” dia. by 88” high, 4,950 lbs. (back-up)
104916	‘CEI-KMN’ Unit B; Cameron, Kleen Air, 46” diam. by 64” high, 2,850 lbs
107706	‘CEI-KMN’ Unit C; Cameron, Kleen Air, 46” diam. by 64” high, 2,850 lbs

- (a) **Emission Limits:** Mass emissions from the equipment items listed above shall not exceed the limits listed in Tables 5.1-3B and 5.1-4B for the items. Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions listed below in this permit.
- (b) **Operational Limits:** The operational limitations listed below shall apply to the equipment items listed above. Compliance with these limits shall be assessed through compliance with the monitoring, recordkeeping and reporting conditions listed in this permit section.
  - (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.
  - (ii) *Smokeless Operation:* All flares shall operate “smokeless,” as defined in District Rule 359.C.
  - (iii) *Automatic Ignition:* 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.
  - (iv) *Flame Monitoring:* The presence of the flame in the flare pilots shall be continuously monitored using thermocouples or equivalent devices that detect the presence of flames.
  - (v) *Flame Operation:* The flare flames shall be operating at all times when combustible gases are vented through the flares.

- (vi) *Heat Input:* The maximum hourly heat input to each flare is limited to the value listed below:

<u>Flare ID#</u>	<u>Max. Hourly Heat Input</u> (MMBtu/hr)
1211, 1212, 1215	1.600 (each flare)

- (vii) *Gaseous Fuel Sulfur Limit:* The gases combusted in the flares shall not contain sulfur compounds in excess of 15 gr./100 scf (239 ppmv), calculated as H<sub>2</sub>S 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.
- (viii) The drains off of the SulfaTreat unit 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 two units when they are operational; and no flash-offs to the atmosphere shall occur from these two units while operating and draining collected water.

- (c) **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<sub>2</sub>S 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.

- (d) **Recordkeeping:** 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 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.

- (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.6 **Fugitive Hydrocarbon Emissions Components.** The following equipment units are addressed via the ‘component-leak-path’ methodology:

Table C.6 (Fugitive HC Components and Component-Leak-Paths)

District ID#	Equipment Item Name	Description
	<i>Gas &amp; Light Liquid Service Components</i>	
100882	Valves	3,199 component-leak-paths
100883	Connections	14,685 component-leak-paths
100886	Pressure Relief Devices	50 component-leak-paths
100885	Compressor Seals	16 component-leak-paths
100884	Pump Seals	5 component-leak-paths

- (a) **Emission Limits:** 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.
- (b) **Operational Limits:** Operation of the equipment listed in this section shall conform to the requirements listed below. Compliance with these limits shall be assessed through compliance with the monitoring, record-keeping and reporting conditions in this permit.
  - (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.
  - (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) **Recordkeeping:** 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:
  - (i) *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.

- (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.7 **Hydrocarbon Liquid Storage Tanks.** The following equipment items at the dehydration units are included in this emissions unit category:

**Table C.7 - List of Storage Tank Emissions Units**

District ID#	Equipment Item Description
1219	Flotation Cell; 10,000 gallons capacity, 12' diameter, 12' high
1220	Flotation Cell; 10,000 gallons capacity, 12' diameter, 12' high
1217	HC condensate Storage Tank; 7,050 gallons, 10' diameter, 12' high
1218	Brine Water Storage Tank; 40,600 gallons, 24' diameter, 12' high
100899	Methanol Storage Tank; 500 gallons, blanketed with NG
100910	Glycol Contactor Control Tanks (3); pressurized, each 16" diam., 15.25' long
100910	Glycol Contactor Control Tank (1); pressurized, 16" diam., 17'8" long
100901	Odorant Storage Tank (1); 1000 gallons, pressurized, storing Captan-50/thiophane

- (a) **Emission Limits:** Mass emissions from the equipment items IDs# 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.
- (b) **Operational Limits:** The operational limitations listed below shall apply to the items listed above in this permit section. Compliance with these limits shall be assessed through compliance with the monitoring, record keeping and reporting conditions listed in this permit section.
- (i) *Throughput Limitations:* Annual hydrocarbon condensate production (dry) shall not exceed 125,000 gallons.
- (ii) *Vapor Recovery System Operation:* No volatile organic compound (VOC) liquid shall be stored in the hydrocarbon storage tanks (IDs# 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.
- (iii) *Tank Clean Out:* 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%.
- (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%. Odorant emissions shall not be detectable, by olfactory senses, at or beyond the property boundary at any time during tank filling operations.

- (c) **Monitoring:** The following monitoring conditions apply to items listed in Table C.6 above:
- (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 (IDs# 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.

- (d) **Recordkeeping:** 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 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 (IDs# 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.
- (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.8 **Loading Station.** The following equipment item is included in this emissions unit category:

**Table C.8 – Loading Station Unit**

District ID#	Equipment Item Name/Description
8669	Loading Station; Grade level station to load tankers, not VRU equipped

- (a) **Emission Limits:** 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.
- (b) **Operational Limits:** All process operations from the equipment listed in this section shall meet the requirements of District Rule 346. The following additional operational limits apply:
  - (i) All tanker trucks receiving organic liquids shall be equipped with a submerged fill pipe;
  - (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;
  - (iii) The condensate volume loading shall be restricted to 476 barrels (i.e., 19,992 gallons) daily; and
  - (iv) Total condensate loading volume shall not exceed 2,976.19 barrels (i.e., 125,000 gallons) annually.

Compliance with these limits shall be assessed through compliance with the monitoring, record-keeping and reporting conditions in this permit.
- (c) **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.
- (d) **Recordkeeping:** 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.
- (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.9 **Wells.** The following equipment items are included in this emissions unit category:

**Table C.9 (Gas Wells)**

District ID#	Equipment Item Name/Description
008670	Miscellaneous Gas Wells: 14 in number, fugitive emissions
100903	Miscellaneous Stacks/Gas Vents: gas venting due to pipeline depressurization

- (a) **Emission Limits:** Mass emissions from the emission units listed above shall not exceed the emission limit listed for these items in Tables 5.2 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.
- (b) **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.
- (c) **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.
- (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.10 **Solvent Usage.** The following equipment are included in this emissions unit category:

District ID#	Equipment Name/Description
8680	Cleaning/Degreasing

- (a) **Emission Limits:** ROC mass emissions from solvent usage shall not exceed the limits listed in Tables 5.1-3 and 5.1-4.
- (b) **Operational Limits:** 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.
  - (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.
  - (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.

- (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 discernible continuous flow of solvent.
- (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) **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.
- (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.11 **Process Monitoring Systems - Operation and Maintenance.** 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 a District-approved *Process Monitor Calibration and Maintenance Plan* for the life of the Plant.

C.12 **Process Stream Sampling and Analysis.** 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.13 **Source/Performance Testing.** The following source testing provisions shall apply:

- (a) SoCalGas shall conduct 'third party' source/performance testing of air emissions and process parameters listed in Section 4.10 and Tables 4.1, 4.4 and 4.5 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.
- (b) SoCalGas shall submit a written source/performance test plan to the District 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 District's *Source Test Procedures Manual* (revised May 1990 and any subsequent revisions). SoCalGas shall obtain written District



approval of the source/performance test plan prior to commencement of source/performance testing. The District shall be notified at least fourteen (14) calendar days prior to the start of source/performance testing activity to arrange for a mutually agreeable source test date when District personnel may observe the test.

- (c) A source/performance 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 authorization shall constitute a violation of this permit.
- (d) Source/Performance tests of Gas Compressors #2 through #8 shall be conducted in accordance to 40 CFR 63 Subpart ZZZZ Table 4 and §63.6620.
- (e) The engine percent load during a source/performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.
- (f) 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.
- (g) The timelines in (a), (b), and (c) may be extended for good cause provided a written request is submitted to the District at least three (3) days in advance of the deadline, and approval for the extension is granted by the District.

- C.14 **IC Engine Inspection and Maintenance Plan.** 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 Inspection and Maintenance Plan* for the life of the project. [Re: District Rules 205.A, 302, 304, 309]
- C.15 **Semi-Annual Compliance Verification Reports.** 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<sup>st</sup>. The second report shall cover calendar quarters 3 and 4 (July through December) and shall be submitted no later than March 1<sup>st</sup>. 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, with one hard copy and one PDF copy. 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.

The report shall include the following information:

- (a) *Internal Combustion Engines.*
- (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.
  - (ii) Records documenting each permitted IC engine's monthly fuel consumption (scf/month).
  - (iii) The higher heating value of the fuel (Btu/scf) as measured by the most recent fuel analysis.
  - (iv) The fuel sulfur content as measured by the most recent fuel analysis.
  - (v) Documentation of any equivalent routine IC engine replacement.
  - (vi) Summary results of all compliance emission source testing and inspections performed.
  - (vii) A summary of CAM monitoring, including a count of all excursions each quarter.
  - (viii) 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:
      - i. Company name and address.
      - ii. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

- iii. Date of report and beginning and ending dates of the reporting period.
  - iv. 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.
  - v. 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.
  - vi. 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:
    - 1. The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
    - 2. Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.
- B. If any emergency stationary RICE with a site rating of more than 100 brake HP (Firewater Pumps - Device IDs #008666 and #008668; Emergency Generator - Device ID #008665) operates or is contractually obligated to be available for more than 15 hours per calendar year, 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:
- i. Company name and address where the engine is located.
  - ii. Date of the report and beginning and ending dates of the reporting period.
  - iii. Engine site rating and model year.
  - iv. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
  - v. 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.

- vi. Number of hours the engine is contractually obligated to be available.
  - vii. 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.
  - xiii. 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.
- (b) *Micro-Turbines.*
- (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.* The annual measured heating value 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<sub>2</sub>S content, both in units of ppmv, of the fuel gas burned in the Capstone C60 micro-turbines.
- (c) *Process Heaters.*
- (i) *Hot Oil Heater.* The volume of natural gas used (in units of standard cubic feet) shall be reported as permitted annual heat input limit for each unit (Btu/year) divided by the District-approved heating value of the fuel (Btu/scf).
  - (ii) *Gas Pre-Heaters Fuel Use.* The volume of natural gas used (in units of standard cubic feet) shall be reported as recorded by the fuel meters.
  - (iii) *Gas Pre-Heaters Fuel Use Meter Calibration Records.* Calibration records of District-approved fuel use meters.
  - (iv) *Gas Pre-Heaters and Hot Oil Heater Tuning Records.* Documentation verifying the required tune-ups, including a complete copy of each tune-up report.
  - (v) *Gas Pre-Heaters Maintenance Logs.* Maintenance logs for the unit(s) and fuel meter (as applicable).
  - (vi) *Hot Oil Heater.* A log that documents the date and number of hours that the unit was test fired in accordance with Rule 361.G.3.
  - (vii) *Hot Oil Heater.* Source test reports for all District-required stack emission tests.
- (d) *Flares.*
- (i) *Heating Value:* Results of the most recent high heating value analysis.

- (ii) *Fuel Sulfur Content:* Records of the fuel gas and, if conducted, the purge gas sulfur analyses for each flare.
- (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.
- (e) *Fugitive Hydrocarbon Emission Components.*  
Changes in the fugitive emissions component count, the total component count, and the associated emission changes at the stationary source.
- (f) *Hydrocarbon Liquid Storage Tanks.*
  - (i) The hydrocarbon liquid throughput for the prior two calendar quarters.
  - (ii) The API gravity, true vapor pressure at 67.2 degrees F, and the actual storage temperature of the stored hydrocarbon liquid in each storage tank.
  - (iii) Records of each tank maintenance.
- (g) *Loading Station.*
  - (i) The daily and annual volume of HC condensate loaded and the dates of shipments from the loading rack.
- (h) *Wells/Venting.*
  - (i) The volume (scf) of gas vented, the ROC and TRS content of the gas, and the weight (in pounds) of ROC and TRS vented.
- (i) *Glycol Unit*
  - (i) The total volume (in MMSCF units) of gas flow through the unit.
- (j) *Solvent Usage.*
  - (i) On a semi-annual basis: the amount of solvent used; the percentage of 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.
- (k) *General Reporting Requirements.*
  - (i) On an annual basis, the emissions from each exempt emission unit for ROC and NO<sub>x</sub>.
  - (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*)

- (iii) A summary list of breakdowns and variances reported/obtained per Regulation V along with the excess emissions that accompanied each occurrence.
  - (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.16 **Documents Incorporated by Reference.** The documents listed below, including any District-approved updates thereof, are incorporated herein and shall have the full force and effect of a permit condition for this operating permit. These documents shall be implemented for the life of Gas Plant.
- (a) *IC Engine Inspection and Maintenance Plan.* (11/04/2017) Ref: Permit condition 9.C.14)
  - (b) *Emergency Episode Plan (Rule 603)* (12/09/2008)
  - (c) *Process Monitor Calibration and Maintenance Plan.* (02/08/2012; revised 2020)
  - (d) *Processed Gas Flow Measurement Plan.* (02/08/2012; revised 2020)
  - (e) *Compliance Assurance Monitoring (CAM) Plan.* (12/12/2011; revised 2020)
- C.17 **Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities.** The equipment permitted herein shall be operated in compliance with the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation (CCR Title 17, Section 95665 *et. Seq.*).
- C.18 **General CARB GHG Regulation Recordkeeping.** The permittee shall maintain at least 5 years of records that document the following:
- (a) The number of crude oil or natural gas wells at the facility.
  - (b) A list identifying all pressure vessels, tanks, separators, sumps, and ponds at the facility, including the size of each tank and separator in units of barrels.
  - (c) The annual crude oil, natural gas, and produced water throughput of the facility.
  - (d) A list identifying all reciprocating and centrifugal natural gas compressors at the facility.
  - (e) A count of all natural gas powered pneumatic devices and pumps at the facility.
- C.19 **CARB GHG Regulation Reporting.** On an annual basis, the permittee shall report all throughput data and any updates to the information recorded pursuant to the *CARB GHG Regulation Recordkeeping* Condition above using District Annual Report Form ENF-108.

## 9.D **District-Only Conditions**

The following section lists permit conditions that are not enforceable by the USEPA or the public. However, these conditions are enforceable by the District and the State of California. These conditions are issued pursuant to District Rule 206 (*Conditional Approval of Authority to Construct or Permit to Operate*), which states that the Control Officer may issue an operating permit subject to specified conditions. These permit conditions have been deemed necessary to ensure that operation of the facility complies with all applicable local, and state air quality rules, regulations and laws. Failure to comply with any condition specified pursuant to the provisions of Rule 206 shall be a violation of that rule, this permit, as well as any applicable section of the California Health & Safety Code.

- 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*]
- 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.
- D.3 **Consistency with Analysis.** 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.
- 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.
- D.5 **Odorous Organic Sulfides.** SoCalGas shall not discharge into atmosphere H<sub>2</sub>S 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.
- 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.
- 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.

D.8 **Emergency Standby Firewater Pump Engines.** The two equipment items listed below belong to this emissions unit category.

District ID#	Plant ID #	Equipment Item Name/Description
008666	#12A	133 bhp Cummins Model V-378-F2 diesel-fired emergency standby firewater pump engine.
008668	#13A	133 bhp Cummins Model V-378-F2 diesel-fired emergency standby firewater pump engine.

- (a) **Emission Limitations.** The mass emissions from the E/S DICE unit #s 008666 and 008668 listed above shall not exceed the values listed in Tables 5.1-3 and 5.1-4. Compliance shall be based on the operational, monitoring, recordkeeping and reporting conditions of this permit.
- (b) **Operational Restrictions.** The E/S DICE unit #s 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<sup>6</sup>, have no operational hours limitations.
- (i) Maintenance & Testing Use Limit: The in-use stationary emergency standby diesel-fueled CI engines subject to this permit shall not be operated for more than 20 hours/year for maintenance and testing.
  - (ii) Fuel and Fuel Additive Requirements: 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.
  - (iii) Change the oil and filter every 500 hours of operation or annually, whichever comes first. Alternatively, the owner or operator 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.
- (c) **Monitoring.** The E/S DICE unit #'s 008666 and 008668 listed above are subject to the following monitoring requirements:
- (i) Non-Resettable Hour Meter: Each in-use stationary emergency standby diesel-fueled CI engine(s) subject to this permit shall have installed a non-resettable hour meter with a minimum display capability of 9,999 hours, unless the District has determined (in writing) that a non-resettable hour meter with a different minimum display capability is appropriate in consideration of the historical use of the engine and the owner or operator's compliance history.

<sup>6</sup> As used in the permit, "ATCM" means Section 93115, Title 17, California Code of Regulations. Airborne Toxic Control Measure for Stationary Compression Ignition (CI) Engines



- (d) **Recordkeeping.** 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.
- (i) emergency use hours of operation;
  - (ii) maintenance and testing hours of operation;
  - (iii) hours of operation for emission testing to show compliance with Section (e)(2)(B)(3) {if specifically allowed for under this permit}.
  - (iv) initial start-up hours {if specifically allowed for under this permit}.
  - (v) hours of operation to comply with the requirements of NFPA 25/100 {if applicable}.
  - (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.
  - (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:
    - A. identification of the fuel purchased as either CARB Diesel, or an alternative diesel fuel that meets the requirements 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.
    - B. amount of fuel purchased.
    - C. date when the fuel was purchased.
    - D. signature of owner or operator or representative of owner or operator who received the fuel.
    - E. signature of fuel provider indicating fuel was delivered.
- (e) **Reporting.** By March 1<sup>st</sup> 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.
- (f) **Temporary Engine Replacements - DICE ATCM.** Any reciprocating internal combustion engine subject to this permit and the stationary diesel ATCM may be replaced temporarily only if the requirements (i - vi) listed herein are satisfied.
- (i) The permitted engine is in need of routine repair or maintenance.
  - (ii) The permitted engine that is undergoing routine repair or maintenance is returned to its original service within 180 days of installation of the temporary engine.

- (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 than 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.
- (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.
- (v) For each permitted engine to be temporarily replaced, the permittee shall submit a completed *Temporary IC Engine Replacement Notification* form (Form ENF-94) within 14 days of the temporary engine being installed. This form may be sent hardcopy, or can be e-mailed (e-mail: [enr@sbcapcd.org](mailto:enr@sbcapcd.org)) to the District (Attn: Engineering Supervisor).
- (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 may be sent hardcopy, or can be e-mailed (e-mail: [enr@sbcapcd.org](mailto:enr@sbcapcd.org)) to the District (Attn: Engineering Supervisor).

Any engine in temporary replacement service shall be immediately shut down if the District determines that the requirements of this condition have not been met. This condition does not apply to engines that have experienced a cracked block (unless under manufacturer's warranty), to engines for which replacement parts are no longer available, or new engine replacements {including "reconstructed" engines as defined in Section (d)(44) of the ATCM}. Such engines are subject to the provisions of New Source Review and the new engine requirements of the ATCM.

- (g) **Permanent Engine Replacements.** 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 cannot be repaired, without first obtaining an ATC permit only if the requirements (i - v) listed herein are satisfied.
  - (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).
  - (ii) The engine breaks down, cannot be repaired and needs to be replaced by a new engine.
  - (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*).

- (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 than 180 days from the date of engine replacement (these timelines include the use of a temporary engine).
- (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 may be sent hardcopy, or can be e-mailed (e-mail: [enr@sbcapcd.org](mailto:enr@sbcapcd.org)) to the District (Attn: Engineering Supervisor).

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.

- (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.
- (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.

D.9 **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

D.10 **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.

D.11 **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*]

D.12 **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.

D.13 **Internal Combustion Engines.** The following IC engine equipment items are included in this emissions unit category:

District ID#	Plant ID#	Equipment Item (IC Engine) Description
1199	#2	Ingersoll-Rand LVG-82, SN 8AL126; 650 hp gas compressor
1200	#3	Ingersoll-Rand LVG-82, SN 8AL129; 650 hp gas compressor
1201	#4	Ingersoll-Rand LVG-82, SN 8AL128; 650 hp gas compressor
1202	#5	Ingersoll-Rand LVG-82, SN 8AL127; 650 hp gas compressor
1203	#6	Ingersoll-Rand KVG-62, SN 6EL265; 660 hp gas compressor
1204	#7	Ingersoll-Rand KVG-62, SN 6EL266; 660 hp gas compressor
1205	#8	Ingersoll-Rand KVG-62, SN 6EL267; 660 hp gas compressor
1206	#9	Cooper-Bessemer GMV-10C; 1,100 hp gas compressor

- (a) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:
- (i) By January 1, 2019, any reciprocating natural gas compressor with a rod packing or seal with a measured emission flow rate greater than two (2) standard cubic feet per minute (scfm), or a combined rod packing or seal emission flow rate greater than the number of compression cylinders multiplied by two (2) scfm, shall be controlled with a vapor collection system or successfully repaired according to the timelines specified in Sections 95668(c)(4)(D) and 95668(c)(4)(F) of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.
- (b) **Monitoring:** The equipment permitted herein is subject to the following monitoring requirements:
- (i) The reciprocating natural gas compressor rod packing or seal emission flow rate through the rod packing or seal vent stack shall be measured annually pursuant to the requirements of Section 95668(c)(4) of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.
- (c) **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:
- (i) The records of each rod packing or seal emission flow rate measurement.
  - (ii) For rod packing or seal measurement delays authorized pursuant to Section 95668(c)(4)(B)3 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation, the records that document the date(s) and hours of operation a compressor is operated in order to demonstrate compliance with the rod packing leak concentration or emission flow rate measurement in the event that the compressor is not operating during a scheduled inspection.
  - (iii) For rod packing or seal repair delays authorized pursuant to Section 95668(c)(4)(D)1 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation, the records that provide proof that parts or equipment required to make necessary repairs have been ordered.

- (d) **Reporting.** By March 1<sup>st</sup> 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. The report must include all data required by the Annual Report condition of this permit.

D.14 **Fugitive Hydrocarbon Emissions Components.** The following equipment units are addressed via the ‘component-leak-path’ methodology:

District ID#	Equipment Item Name	Description
	<i>Gas &amp; Light Liquid Service Components</i>	
100882	Valves	3,199 component-leak-paths
100883	Connections	14,685 component-leak-paths
100884	Pump Seals	5 component-leak-paths
100885	Compressor Seals	16 component-leak-paths
100886	Pressure Relief Devices	50 component-leak-paths

- (a) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:
- (i) Any component with a leak concentration measured above the standards in Section 95669 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation shall be repaired within the time period specified in this Section.
  - (ii) The permittee shall comply with the *Additional Requirements* (l) – (o) of Section 95669 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.
- (b) **Monitoring:** The equipment permitted herein is subject to the following monitoring requirements:
- (i) All components, including components found on tanks, separators, wells, and pressure vessels not identified in Section 95669(b) of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation shall be inspected and repaired within the timeframes specified in Section 95669 of the regulation.
- (c) **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:
- (i) A record of each leak detection and repair inspection as specified in Table A4 of the California Greenhouse Gas Emission Standard for Crude Oil and Natural Gas Facilities regulation.
  - (ii) A component leak concentration and repair for each inspection as specified in Table A5 of the California Greenhouse Gas Emission Standard for Crude Oil and Natural Gas Facilities regulation.

- (iii) Records that provide proof that parts or equipment required to make necessary repairs have been ordered.
- (iv) Gas service utility records that demonstrate that a system has been temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.
- (d) **Reporting.** By March 1<sup>st</sup> 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. The report must include all data required by the Annual Report condition of this permit.
- (e) **Critical Components.** Critical components used in conjunction with a critical process unit shall be approved by the District and the ARB Executive Officer if SoCalGas wishes to claim any critical component exemptions available under the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation. SoCalGas shall provide sufficient documentation demonstrating that a critical component is required as part of a critical process unit and that shutting down the critical component or process unit would impact safety or reliability of the natural gas system. SoCalGas shall maintain, and make available upon request, a record of all critical components or process units located at the facility. Each critical component or critical process unit shall be identified according to the methods specified in Section 95670(e) of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.

D.15 **Intermittent Bleed Natural Gas Powered Pneumatic Devices.** The following equipment items are included in this emissions unit category:

District ID#	Equipment Item Name	Description
391978	Intermediate Bleed Devices	10 Devices

- (a) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:
  - (i) All intermittent bleed natural gas powered pneumatic devices shall comply with the leak detection and repair requirements specified in Section 95669 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation when the device is idle and not controlling.
- (b) **Reporting.** By March 1<sup>st</sup> 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. The report must include all data required by the Annual Report condition of this permit.

D.16 **Well Casing Vents.** The following equipment items are included in this emissions unit category:

District ID#	Equipment Item Name	Description
391979	Well Casing Vents	12 Well Casing Vents

(a) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:

(i) The well casing vents shall not continuously vent to the atmosphere.

D.17 **Natural Gas Underground Storage Facility Monitoring Requirements.**

(a) **Operational Restrictions.** The equipment permitted herein is subject to the following operational restrictions:

(i) All leaks shall be successfully repaired within the repair timeframes specified for each leak threshold as specified in Section 95669 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.

(b) **Monitoring:** The equipment permitted herein is subject to the following monitoring requirements:

(i) Within 180 days of CARB approval, owners or operators of natural gas underground storage facilities shall begin monitoring according to the monitoring plan specified in Section 95668(h)(5) of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.

(c) **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:

(i) Records of the initial and final leak concentration measurements for leaks identified during daily leak inspections or identified by a continuous leak monitoring system and measured above the minimum allowable leak threshold as specified in Appendix A Table A5 of the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.

(ii) Records of both meteorological and upwind and downwind air monitoring data.

(d) **Reporting.** By March 1<sup>st</sup> 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. The report must include all data required by the Annual Report condition of this permit. In addition, the permittee shall comply with the following reporting requirements:

(i) Within 24 hours of receiving an alarm or identifying a leak that is measured above 50,000 ppmv total hydrocarbons or above 10,000 ppmv total hydrocarbons for more than 5 consecutive calendar days at a natural gas injection/withdrawal wellhead assembly and attached pipelines, SoCalGas shall notify the ARB, the Department of

Oil, Gas, and Geothermal Resources, and the District to report the leak concentration measurement.

- (ii) Within 24 hours of receiving an alarm signaled by a downwind air monitoring sensor(s) that detects a reading that is greater than four (4) times the downwind sensor(s) baseline, SoCalGas shall notify CARB, the Department of Oil, Gas, and Geothermal Resources, and the District to report the emissions measurement.
- (iii) Quarterly, report the initial and final leak concentration measurement for leaks identified during daily inspections or identified by a continuous leak monitoring system and measured above the minimum allowable leak threshold.

**D.18 Annual Report.** By March 1<sup>st</sup> 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) Internal Combustion Engines
  - (i) The emission flow rate measurement for each reciprocating natural gas compressor rod packing or seal.
- (b) Fugitive Hydrocarbon Components
  - (i) The results of each leak detection and repair inspection conducted during the calendar year in both electronic PDF and spreadsheet (.xlsx) format.
  - (ii) The initial and final leak concentration measurements for components measured above the minimum allowable leak threshold in both electronic PDF and spreadsheet (.xlsx) format.
- (c) Underground Natural Gas Storage
  - (i) Meteorological data and data gathered by the upwind and downwind monitoring sensors.
- (d) General CARB GHG Regulation
  - (i) The permittee shall report all throughput data and any updates to the information recorded pursuant to the *General CARB GHG Regulation Recordkeeping Condition* above using District Annual Report Form ENF-108.
- (e) Plant-wide Gas Processing
  - (i) 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.

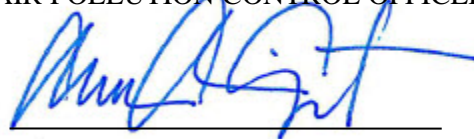


- (g) The March annual report shall list total tons per year of each criteria pollutant emitted from each emissions unit.

D.19 **Documents Incorporated by Reference.** The documents listed below, including any District-approved updates thereof, are incorporated herein and shall have the full force and effect of a permit condition for this operating permit. These documents shall be implemented for the life of Gas Plant.

- (a) *Natural Gas Underground Storage Facility Monitoring Plan.* (02/07/2019)
- (b) *Critical Component List* (approved December 27, 2017, and any approved updates).

AIR POLLUTION CONTROL OFFICER



June 18, 2021

Date

Notes:

- (A) This permit supersedes PT-70/Reeval 9584 R6 and PTO 15298
- (B) Permit Reevaluation Due Date: June 2024

Attachments:

- 10.1 Emission Calculation Documentation
- 10.2 Calculation Spreadsheets
- 10.3 Fee Calculations
- 10.4 IDS Database Emission Tables
- 10.5 Equipment List
- 10.6 Comments on Draft Permit/District Responses

## 10.1 Emission Calculation Documentation

This attachment contains all relevant emission calculation documentation used for the emission tables in Section 5. Refer to Section 4 for the general equations. The letters A through E below refer to Tables 5.1-1 and 5.1-2.

### Reference A – Internal Combustion Engines

- The maximum operating schedule is in units of hours.
- The default fuel HHV is 1,050 Btu/scf.
- Emission factors (lb/MMBtu) are based on HHV.
- For conversion from ppmv to lb/MMBtu see section 10.2 calculations
- NO<sub>x</sub>  
EF = 0.46 lb/MMBtu (lean-burn ICE);  
EF = 0.324 lb/MMBtu (rich burn ICEs), this EF is not based on the 50 ppmv exhaust concentration limit, it was established by the ERC agreement and is based on 90% reduction of uncontrolled emissions.
- CO  
EF = 10.125 lb/MMBtu (lean burn ICE);  
EF = 3.825 lb/MMBtu (rich burn ICEs)
- ROC  
EF = 2.495 lb/MMBtu (lean burn ICE);  
EF = 0.321 lb/MMBtu (rich burn ICEs)
- PM/PM<sub>10</sub>/PM<sub>2.5</sub>  
EF = 0.048 lb/MMBtu (lean burn ICE) USEPA AP-42 [Table 3.2-1 (7/00)];  
EF = 0.014 lb/MMBtu (rich burn ICEs) USEPA AP-42 [Table 3.2-3 (7/00)]
- SO<sub>x</sub>  
 $SO_x \text{ (as } SO_2) = [0.169] \times [\text{ppmvd S} \div (\text{HHV of fuel})]$   
EF = 0.0129 lb/MMBtu
- $Q \text{ (fuel use/time period)} = (\text{BSFC}) * (\text{bhp}) \square (\text{hours/time period}) \square (\text{HHV in Btu/scf})$
- $H \text{ (heat input / hour)} = (\text{Rated bhp}) * (\text{BSFC})$

Eqpt.ID#	Plant ID#	IC Engine Description	Rated bhp	BSFC	MMBtu/hr Input
1199	# 2	I-R LVG-82; SN 8AL126	650	11,231	7.30
1200	# 3	I-R LVG-82; SN 8AL129	650	11,231	7.30
1201	# 4	I-R LVG-82; SN 8AL128	650	11,231	7.30
1202	# 5	I-R LVG 82; SN 8AL127	650	11,231	7.30
1203	# 6	I-R KVG-62; SN 6EL265	660	11,061	7.30
1204	# 7	I-R KVG-62; SN 6EL266	660	11,061	7.30
1205	# 8	I-R KVG-62; SN 6EL267	660	11,061	7.30
1206	# 9	Cooper-Bessemer GMV-10C	1100	9,109	10.02

HAP Emission Factors:

Hazardous air pollutant (HAP) emission factors for the IC engines are obtained from USEPA, Appendix A of the background report for Section 3.2 of AP-42. The database of source test results contained in appendix A can be downloaded from <http://www.epa.gov/ttn/chief/ap42/ch03/related/c03s02.html>. For MU 2-8, the average of all source test results in the database for each species for NSCR-controlled, four-cycle, rich-burn, IC engines at 90% load or greater was used as the emission factor. For MU 9, the average of all source test results for two stroke lean burn IC engines at 90% load or greater was used. For acrolein only source test reports based on FTIR were considered. The background report for Section 3.2 states that the EPA has identified possible interference problems with quantifying aldehyde emissions using CARB method 430 and recommends basing emission factors on FTIR measurements. For acetaldehyde and formaldehyde the source test results were non-detect, for these pollutants the emissions factors in this permit were based on the detection level of the source tests.

These emission factors are updated from permit reevaluation 9584-R2, which used emission factors from AP-42, Section 3.2 (January 1995).

GHG Emission Factors:

GHG emissions from combustion sources are calculated using emission factors found in Tables C-1 and C-2 of 40 CFR Part 98 and global warming potentials found in Table A-1 of 40 CFR Part 98. CO<sub>2</sub> equivalent emission factors are calculated for CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually then summed to calculate a total CO<sub>2e</sub> emission factor. Annual CO<sub>2e</sub> emission totals are presented in short tons.

**For natural gas combustion the emission factor is:**

$$(53.02 \text{ kg CO}_2/\text{MMBtu}) (2.2046 \text{ lb/kg}) = 116.89 \text{ lb CO}_2/\text{MMBtu}$$

$$(0.001 \text{ kg CH}_4/\text{MMBtu}) (2.2046 \text{ lb/kg})(21 \text{ lb CO}_{2e}/\text{lb CH}_4) = 0.046 \text{ lb CO}_{2e}/\text{MMBtu}$$

$$(0.0001 \text{ kg N}_2\text{O}/\text{MMBtu}) (2.2046 \text{ lb/kg})(310 \text{ lb CO}_{2e}/\text{lb N}_2\text{O}) = 0.068 \text{ lb CO}_{2e}/\text{MMBtu}$$

$$\text{Total CO}_{2e}/\text{MMBtu} = 116.89 + 0.046 + 0.068 = 117.00 \text{ lb CO}_{2e}/\text{MMBtu}$$

Reference B – ‘C-60’ Micro-turbines

- The maximum operating schedule is in units of hours.
- The default fuel HHV is 1,050 Btu/scf.
- Emission factors units (lb/MMBtu) are based on HHV.
- For conversion from lb/MW-hr to lb/MMBtu, *see section 10.2 calculations*
- NO<sub>x</sub>  
EF = 0.5 lb/MW-hr  
EF = 0.0373 lb/MMBtu
- ROC  
EF = 1 lb/MW-hr  
EF = 0.0746 lb/MMBtu
- CO  
EF = 6 lb/MW-hr  
EF = 0.4478 lb/MMBtu
- PM/PM<sub>10</sub>/PM<sub>2.5</sub> emission factors, based on CA: DG-02 guidelines, are 0.0066 lb/MMBtu
- SO<sub>x</sub> emissions based on mass balance:  
SO<sub>x</sub> (as SO<sub>2</sub>) = [0.169] × [ppmvd S ÷ (HHV of fuel)]  
EF = 0.0129 lb/MMBtu
- Q (fuel use/time period) = 12.8 scf/min
- H (MMBtu/hour) = Q (scf/min) \* 60 (min/hour) \* 1050 (Btu/scf) / 1,000,000

HAP Emission Factors:

Hazardous air pollutant (HAP) emission factors for the micro-turbines are obtained from USEPA, AP-42 Table 3.1-3 (April 2000). These factors are listed in Table 5.4-2A of this permit.

GHG Emission Factors:

GHG emissions from combustion sources are calculated using emission factors found in Tables C-1 and C-2 of 40 CFR Part 98 and global warming potentials found in Table A-1 of 40 CFR Part 98. CO<sub>2</sub> equivalent emission factors are calculated for CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually, then summed to calculate a total CO<sub>2e</sub> emission factor. Annual CO<sub>2e</sub> emission totals are presented in short tons.

**For natural gas combustion the emission factor is:**

$$(53.02 \text{ kg CO}_2/\text{MMBtu}) (2.2046 \text{ lb/kg}) = 116.89 \text{ lb CO}_2/\text{MMBtu}$$

$$(0.001 \text{ kg CH}_4/\text{MMBtu}) (2.2046 \text{ lb/kg})(21 \text{ lb CO}_{2e}/\text{lb CH}_4) = 0.046 \text{ lb CO}_{2e}/\text{MMBtu}$$

$$(0.0001 \text{ kg N}_2\text{O}/\text{MMBtu}) (2.2046 \text{ lb/kg})(310 \text{ lb CO}_{2e}/\text{lb N}_2\text{O}) = 0.068 \text{ lb CO}_{2e}/\text{MMBtu}$$

$$\text{Total CO}_{2e}/\text{MMBtu} = 116.89 + 0.046 + 0.068 = 117.00 \text{ lb CO}_{2e}/\text{MMBtu}$$

## Reference C1 - Flares

The maximum operating schedule is in units of hours

The flare gas properties are:

⇒ HHV = 985 Btu/scf (estimated)

⇒ Fuel S = 80 ppmv (as total sulfur) for flare pilots and 239 ppmvd for flare gas

The flare emission factors are based on Rule 359 limits for NO<sub>x</sub>, ROC and CO

SO<sub>x</sub> emissions based on mass balance:

$$\text{SO}_x \text{ (as SO}_2\text{)} = [0.169] \times [\text{ppmvd S} \div (\text{HHV of fuel})]$$

$$\text{EF} = 0.041 \text{ lb/MMBtu}$$

### HAP Emission Factors:

VCAPCD AB 2588 Combustion Emission Factors (May 2001) for Natural Gas Fired External Combustion Emission Factors Flare

### GHG Emission Factors:

GHG emissions from combustion sources are calculated using emission factors found in Tables C-1 and C-2 of 40 CFR Part 98 and global warming potentials found in Table A-1 of 40 CFR Part 98. CO<sub>2</sub> equivalent emission factors are calculated for CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually, then summed to calculate a total CO<sub>2e</sub> emission factor. Annual CO<sub>2e</sub> emission totals are presented in short tons.

### **For natural gas combustion the emission factor is:**

$$(53.02 \text{ kg CO}_2\text{/MMBtu}) (2.2046 \text{ lb/kg}) = 116.89 \text{ lb CO}_2\text{/MMBtu}$$

$$(0.001 \text{ kg CH}_4\text{/MMBtu}) (2.2046 \text{ lb/kg})(21 \text{ lb CO}_{2e}\text{/lb CH}_4) = 0.046 \text{ lb CO}_{2e}\text{/MMBtu}$$

$$(0.0001 \text{ kg N}_2\text{O/MMBtu}) (2.2046 \text{ lb/kg})(310 \text{ lb CO}_{2e}\text{/lb N}_2\text{O}) = 0.068 \text{ lb CO}_{2e}\text{/MMBtu}$$

$$\text{Total CO}_{2e}\text{/MMBtu} = 116.89 + 0.046 + 0.068 = 117.00 \text{ lb CO}_{2e}\text{/MMBtu}$$

## Reference C2 – Hot Oil Heater

The maximum operating schedule is in units of hours

The emission factors for NO<sub>x</sub>, CO, ROC, PM<sub>10</sub>, and PM<sub>2.5</sub> are based on AP-42 emission factors for small natural gas-fired boilers (Tables 1.4-1 and 1.4-2 dated July 1998).

SO<sub>2</sub> emission limits (factors) are based on the combustion of PUC natural gas.

### HAP Emission Factors:

VCAPCD AB 2588 Combustion Emission Factors (May 2001) for Natural Gas Fired External Combustion Emission Factors <10 MMBTU/h.

### GHG Emission Factors:

GHG emissions from combustion sources are calculated using emission factors found in Tables C-1 and C-2 of 40 CFR Part 98 and global warming potentials found in Table A-1 of 40 CFR Part 98. CO<sub>2</sub> equivalent emission factors are calculated for CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually, then summed to calculate a total CO<sub>2e</sub> emission factor. Annual CO<sub>2e</sub> emission totals are presented in short tons.

**For natural gas combustion the emission factor is:**

$(53.02 \text{ kg CO}_2/\text{MMBtu}) (2.2046 \text{ lb/kg}) = 116.89 \text{ lb CO}_2/\text{MMBtu}$

$(0.001 \text{ kg CH}_4/\text{MMBtu}) (2.2046 \text{ lb/kg})(21 \text{ lb CO}_2\text{e}/\text{lb CH}_4) = 0.046 \text{ lb CO}_2\text{e}/\text{MMBtu}$

$(0.0001 \text{ kg N}_2\text{O}/\text{MMBtu}) (2.2046 \text{ lb/kg})(310 \text{ lb CO}_2\text{e}/\text{lb N}_2\text{O}) = 0.068 \text{ lb CO}_2\text{e}/\text{MMBtu}$

Total  $\text{CO}_2\text{e}/\text{MMBtu} = 116.89 + 0.046 + 0.068 = 117.00 \text{ lb CO}_2\text{e}/\text{MMBtu}$

Reference D – HC condensate Storage Tanks

The maximum operating schedule is in units of hours;

The hourly/daily/annual emissions scenario is based on the following assumptions:

Hydrocarbon Condensate Tank:

1. Maximum True vapor pressure: 5.5 psia @ 70°F
2. API Gravity = 39
3. Emissions occur 24 hours/day and 365 days/year.
4. The annually-averaged HC throughput rate is 8.154 barrels/day corresponding to the annual throughput of 125,000 gallons/year

Flotation Cells:

1. Maximum True vapor pressure: 5.5 psia @ 70°F
2. API Gravity = 39
3. Emissions occur 24 hours/day and 365 days/year.
4. The combined HC and brine water 'annual average' throughput rate is 48.924 barrels/day, corresponding to an annual throughput of 750,000 gallons for the entire facility.

Emission factors are based on the *USEPA's AP-42, Section 7* guidelines.

HAP Emission Factors:

Hazardous air pollutant (HAP) weight fractions for the HC condensate storage tank emissions are obtained from the *CARB Speciation Manual (2<sup>nd</sup> Edition, 9/91), Profile Number 297(Crude Oil Evaporation)*. The weight fractions contained in the speciation manual are for total organic gases, therefore the weight fractions have been corrected to exclude methane and ethane. An example for benzene is given below:

$$\text{ROC fraction}_{\text{benzene}} = \text{TOG fraction}_{\text{benzene}} / (1 - \text{TOG fraction}_{\text{methane}} - \text{TOG fraction}_{\text{ethane}})$$
$$\text{ROC fraction}_{\text{benzene}} = 0.0240 / (1 - 0.0880 - 0.0270) = 0.0240 / 0.8850 = 0.0271$$

Reference E -- Loading Station

The maximum operating schedule is in units of hours;

The daily/annual emissions scenario is computed, based on the following assumptions:

1. The liquid condensate loading rate occurs at a maximum rate of 7,140 gallons/hour, and 20,000 gallons/day (2.8 hours of operation) and 125,000 gal/year (17.51 hours of operation). The hourly loading rate and daily and annual hours of operation are not permit limits, they are just used to calculate daily and annual mass emissions.
2. The loading at the NGL station is uncontrolled.

3. The emission factors are derived from USEPA's AP-42, Chapter 5.2 (*Transportation and Marketing of Petroleum Liquids*) guidelines

$$L_L = 12.46 \frac{SPM}{T} \quad (1)$$

where:

$L_L$  = loading loss, pounds per 1000 gallons (lb/10<sup>3</sup> gal) of liquid loaded

S = a saturation factor (see Table 5.2-1)

P = true vapor pressure of liquid loaded, pounds per square inch absolute (psia)  
(see Figure 7.1-5, Figure 7.1-6, and Table 7.1-2)

M = molecular weight of vapors, pounds per pound-mole (lb/lb-mole) (see Table 7.1-2)

T = temperature of bulk liquid loaded, °R (°F + 460)

S = 0.60 (submerged loading, dedicated normal service)

P = 5.5 psia

M = 37 lb/lb-mole

T = 530 deg R

Loading loss THC emissions are then corrected to ROC using an ROC/THC ratio of 0.960.

HAP Emission Factors:

Hazardous air pollutant (HAP) weight fractions for the HC loading station emissions are obtained from the *CARB Speciation Manual (2<sup>nd</sup> Edition, 9/91), Profile Number 756 (Oil & Gas Production Fugitives – Liquid Service)*. The weight fractions contained in the speciation manual are for total organic gases, therefore the weight fractions have been corrected to exclude methane and ethane. An example for benzene is given below:

$$\text{ROC fraction}_{\text{benzene}} = \text{TOG fraction}_{\text{benzene}} / (1 - \text{TOG fraction}_{\text{methane}} - \text{TOG fraction}_{\text{ethane}})$$

$$\text{ROC fraction}_{\text{benzene}} = 0.0010 / (1 - 0.0640 - 0.3760) = 0.0010 / 0.5600 = 0.0018$$

Reference F - Gas Venting from Wells

- The maximum operating schedule is in units of hours.
- All venting emissions are credited with zero percent emission control efficiency, since the venting operation is not subjected to any ROC emissions control.
- The specific volume of the PUC quality natural gas vented is 19.59 scf/lb. (9/14/99 data).
- Thus, each million standard cubic foot (MMscf) of gas vented at the facility weighs 10<sup>6</sup>/19.59 = 51046.45 lbs.
- Field data (9/14/99) show the ROC mass fraction in the facility natural gas to be 13.3 percent.
- The ROC emission factor of the natural gas vented at the SoCalGas facility is, therefore, 51046.45 lbs.\*0.133 = 6789 lb/MMscf.

- Assuming a methane weight fraction of 0.6130 (see HAP discussion), the methane content of each MMScf of gas is  $51046.45 \text{ lb} \times 0.6130 = 31291.47 \text{ lb methane/MMscf}$
- The CO<sub>2e</sub> emission factor for gas venting is  $31291.47 \text{ lb CH}_4/\text{MMscf} \times 21 \text{ lb CO}_{2e}/\text{lb CH}_4 = 657,121 \text{ lb CO}_{2e}/\text{MMscf}$

HAP Emission Factors:

Hazardous air pollutant (HAP) emission factors for hexane are based on monthly gas composition analyses performed by SoCalGas for their PUC quality gas as well as the gas stored in their wells. Twenty-four data points were taken from the analytical results obtained during 2001 – 2002; these yielded a mean value of 0.05 for the ‘hexane plus’ fraction in the ROC. These analytical results were not reported as individual compounds, just as all compounds with the molecular weight of hexane or higher. Therefore the hexane emission factor listed in the tables is very conservative. The emission factor for benzene is based on the ROC content of the emissions, as speciated in *CARB Speciation Manual (2<sup>nd</sup> Edition, 9/91), Profile Number 757 (Oil & Gas Production Fugitives – Gas Service)*. The weight fraction for benzene contained in the speciation manual is a fraction of total organic gases, therefore the weight fraction has been corrected to exclude methane and ethane.

$$\text{ROC fraction}_{\text{benzene}} = \text{TOG fraction}_{\text{benzene}} / (1 - \text{TOG fraction}_{\text{methane}} - \text{TOG fraction}_{\text{ethane}})$$

$$\text{ROC fraction}_{\text{benzene}} = 0.0010 / (1 - 0.6130 - 0.0790) = 0.0010 / 0.3080 = 0.0032$$

PTO 9584 R2 contained a column in the HAP tables for iso-octane (2,2,4 trimethylpentane). Iso-octane is a product of petroleum refining, since this facility receives and handles PUC quality natural gas, and the dehydration and separation processes at the facility do not include any refining, iso-octane is not expected in the gas handled at the facility.

SoCalGas has conducted sampling showing that iso-octane levels in the gas are non-detect. This sampling may also be used to further refine the emission factors for the other species.

Reference G - Fugitive Components

- The maximum operating schedule is in units of hours.
- All fugitive emission components are credited with zero percent emission control efficiency, since none of the equipment is subject to any fugitive emissions I&M program.
- The component leak path definition differs from the District Rule 331 definition of a component. A typical leak path count for a valve could be equal to 4 (one valve stem, a bonnet connection and two flanges).

Leak path counts are provided by applicant and verified by facility inspections.

Emission factors based on the District *P&P Document 6100.061.1996*. Production Field emission factors from Table 2 are used, but the ROC/THC ratio is 0.133, based on facility-specific data.

Consistent with *P&P 6100.061*, an emission control efficiency of eighty (80) percent is applied to all components since the La Goleta facility is subject to an Inspection and Maintenance program for leak detection and repair required by the California Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities regulation.



- Sample calculation spreadsheets are attached.

HAP Emission Factors:

Hazardous air pollutant (HAP) emission factors for hexane are based on monthly gas composition analyses performed by SoCalGas for their PUC quality gas as well as the gas stored in their wells. Twenty-four data points were taken from the analytical results obtained during 2001 – 2002; these yielded a mean value of 0.05 for the ‘hexane plus’ fraction in the ROC. These analytical results were not reported as individual compounds, just as all compounds with the molecular weight of hexane or higher. Therefore the hexane emission factor listed in the tables is very conservative. The emission factor for benzene is based on the ROC content of the emissions, as speciated in *CARB Speciation Manual (2<sup>nd</sup> Edition, 9/91), Profile Number 757 (Oil & Gas Production Fugitives – Gas Service)*. The weight fraction for benzene contained in the speciation manual is a fraction of total organic gases, therefore the weight fraction has been corrected to exclude methane and ethane.

$$\text{ROC fraction}_{\text{benzene}} = \text{TOG fraction}_{\text{benzene}} / (1 - \text{TOG fraction}_{\text{methane}} - \text{TOG fraction}_{\text{ethane}})$$

$$\text{ROC fraction}_{\text{benzene}} = 0.0010 / (1 - 0.6130 - 0.0790) = 0.0010 / 0.3080 = 0.0032$$

PTO 9584 R2 contained a column in the HAP tables for iso-octane (2,2,4 trimethylpentane). Iso-octane is a product of petroleum refining, since this facility receives and handles PUC quality natural gas, and the dehydration and separation processes at the facility do not include any refining, iso-octane is not expected in the gas handled at the facility.

SoCalGas has conducted sampling showing that iso-octane levels in the gas are non-detect. This sampling may also be used to further refine the emission factors for the other species.

Reference H - Solvents

- All solvents not used to thin surface coatings are included in this equipment category.
- Quarterly and annual ROC emission rates are based on estimated maximum solvent use (*see below*).
- Hourly emission limits are not provided; the facility operates ‘JRI Model TL-21’ parts washing unit using non-ROC solvents.’
- ROC emissions are estimated as: 2.20 lb/day and 0.4 ton/year; this is based on the estimated ‘wipe cleaning’ use of about 200 gallons of solvents per year containing about 800 lbs of ROC.
- No District-approved solvent reclamation program operates at the facility.

HAP Emission Factors:

Solvents assumed to contain 5% benzene, 5% toluene, 5% xylene.

Reference I: Internal Combustion Engines – District permit-exempt, Gas-fired engines

- The maximum operating schedule is in units of hours.

- The default fuel (PUC quality natural gas) characteristics are:
  - density = 0.0459lb/scf
  - LHV = 950 Btu/scf
  - HHV = 1,050 Btu/scf
- Emission factors units (lb/MMBtu) are based on HHV.
- LCF (conversion of LHV to HHV) values are not required to be used for fuel listed.
- *NO<sub>x</sub> and ROC emission factors are consistent with those established for gas-fired, uncontrolled IC engines* — pursuant to a 1991 field study and agreed to by the District and the oil & gas industry in Santa Barbara, namely:
  - NO<sub>x</sub>  
EF<sub>lb/MMBtu</sub> = 1.905 (rich-burn ICE's: SCC# 20200202);
  - ROC  
EF<sub>lb/MMBtu</sub> = 0.103 (rich-burn ICE's: SCC# 20200202)
  - CO emission factors are consistent with AP-42 , Section 3.2 Tables
  - For conversion from lb/MMscf to lb/MMBtu, used AP-42 (2/97) listed fuel HHV of 1019.4 Btu/scf
  - CO  
EF<sub>lb/MMBtu</sub> = 1.6 (rich-burn ICE's; SCC# 20200253);
  - PM/PM<sub>10</sub>/PM<sub>2.5</sub> emission factors based on USEPA AP-42;
  - For rich-burn engines = 0.01275 lb/MMBtu [Table 3.2-4 (2/97)];
  - SO<sub>x</sub> emissions based on mass balance:  
SO<sub>x</sub> (as SO<sub>2</sub>) = [0.169] × [ppmvd S ÷ (HHV of fuel)]

HAP Emission Factors:

Gas Fired Engines: Used AP-42 Table 3.2-3. Uncontrolled Emission Factors for 4-Stroke Rich-Burn Engines. Previously used the FIRE database. The emission factors did not change. However, additional HAPs were added.

Diesel Fired Engines: Used VCAPCD emission factors. Use of the VCACPD factors results in a change in units and additional pollutants.

GHG Emission Factors:

GHG emissions from combustion sources are calculated using emission factors found in Tables C-1 and C-2 of 40 CFR Part 98 and global warming potentials found in Table A-1 of 40 CFR Part 98. CO<sub>2</sub> equivalent emission factors are calculated for CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O individually, then summed to calculate a total CO<sub>2e</sub> emission factor. Annual CO<sub>2e</sub> emission totals are presented in short tons.

**For natural gas combustion the emission factor is:**

$$(53.02 \text{ kg CO}_2/\text{MMBtu}) (2.2046 \text{ lb/kg}) = 116.89 \text{ lb CO}_2/\text{MMBtu}$$

$$(0.001 \text{ kg CH}_4/\text{MMBtu}) (2.2046 \text{ lb/kg})(21 \text{ lb CO}_2\text{e}/\text{lb CH}_4) = 0.046 \text{ lb CO}_2\text{e}/\text{MMBtu}$$

$$(0.0001 \text{ kg N}_2\text{O}/\text{MMBtu}) (2.2046 \text{ lb/kg})(310 \text{ lb CO}_2\text{e}/\text{lb N}_2\text{O}) = 0.068 \text{ lb CO}_2\text{e}/\text{MMBtu}$$

$$\text{Total CO}_2\text{e}/\text{MMBtu} = 116.89 + 0.046 + 0.068 = 117.00 \text{ lb CO}_2\text{e}/\text{MMBtu}$$

## 10.2 Calculation Spreadsheets

### Combustion Equipment Emissions Calculations ICE Emission Factor Derivation -- Conversion from ppmv to lb/MMBtu

*ppmv to lb/MMBTU:*

@ 15% exhaust oxygen (dry basis) & standard conditions (1.0 atm., 60 °F)

$$\text{lb}_i/\text{MMBTU} = \text{ppmv}_i (\text{SCF}_i/\text{MMSCF}_{\text{exhaust}}) * (\text{F}, \text{SCF}_{\text{exhaust}}/\text{MMBTU}) * (\text{MW}_i, \text{lb}_i/\text{lb-mole}) / (379 \text{ SCF}_i/\text{lb-mole}) / (10^6/\text{MM}) / (\text{XSA})$$

*Acronym Description and Reference:*

- F = fuel expansion factor @ 0% excess exhaust oxygen, dry basis and 60 °F = 8608 scf/MMBtu (District ICE Technical Reference Document).
- MW = Average molecular weight of exhaust pollutant specie(s), lb/lb-mole
- XSA = Excess air correction factor from 0% to 15% exhaust oxygen {dimensionless constant =  $[20.9-15.0]/[20.9-0.0] = 0.282$ }.

*Average Exhaust Pollutant Molecular Weights:*

	<u>lb<sub>i</sub>/lb-mole</u>
1. NO <sub>x</sub> as NO <sub>2</sub> :	46
2. CO	28
3. ROC	41.31

The ROC molecular weight is an assumed average molecular weight for the non-methane, non-ethane organic compounds in the engine exhausts.

**Combustion Equipment Emissions Calculations**  
Supplemental Information for Micro-turbines

<b>TABLE 10.2 - EMISSION FACTOR DERIVATION FROM ARB DG-002</b>			
C60 Microturbines - PUC Quality Natural Gas			
<b><u>DATA:</u></b>			
<u>Parameter</u>	<u>Symbol</u>	<u>Value Units</u>	<u>Reference</u>
Power Output	kW	60 kW	Permit application
Heat Rate (LHV based)	HRL	12,182 Btu/kWh	Permit application
Fuel Correction Factor	FCF	1.1 dimensionless	Permit application
Heat Rate (HHV based)	HRH	13,400 Btu/kWh	Manufacturer Specifications
F-Factor (F <sub>D</sub> )	FD	8,608 (dscf/MMBtu)	SBCAPCD ICE Tech Ref Doc
Molar Volume of Gasses	mv	379 (scf/lb-mole)	Attach. 5-5 USEPA Combustion Manual
Stack NO <sub>x</sub> (as NO <sub>2</sub> )	ppmvN	0.5 lb/MW-hr	Executive Order DG-002
Stack ROC (as CH <sub>4</sub> )	ppmvR	1 lb/MW-hr	Executive Order DG-002
Stack CO	ppmvC	6 lb/MW-hr	Executive Order DG-002
Molec Weight NO <sub>x</sub>	MWN	46 lb/lbmole	NO <sub>x</sub> as NO <sub>2</sub>
Molec Weight ROC	MWR	16 lb/lbmole	ROC as methane
Molec Weight CO	MWC	28 lb/lbmole	
<b><u>CALCULATIONS:</u></b>			
<u>Parameter</u>	<u>Symbol</u>	<u>Value Units</u>	<u>Calculation</u>
Hourly Heat Input	QH	0.804 MMBtu/hr	$QH = (kW * HRH) / 10^6$
Stack Flow (0% O <sub>2</sub> )	S1	6,921 dscf/hr	$S1 = FD * QH$
Stack Flow (15% O <sub>2</sub> ):	S2	24,516 dscf/hr	$S2 = S1 * \{(20.9-0)/(20.9-15)\}$
NO <sub>x</sub> Mass Emissions	EN	0.030 lb/hr	$EN = \{(ppmvN / 10^6) * S2 * MWN / mv\}$
ROC Mass Emissions	ER	0.060 lb/hr	$ER = \{(ppmvR / 10^6) * S2 * MWR / mv\}$
CO Mass Emissions	EC	0.360 lb/hr	$EC = \{(ppmvC / 10^6) * S2 * MWC / mv\}$
NO <sub>x</sub> Emission Factor	EFNOX	0.0373 lb/MMBtu	$EFNOX = EN / QH$
ROC Emission Factor	EFROC	0.0746 lb/MMBtu	$EFROC = ER / QH$
CO Emission Factor	EFCO	0.4478 lb/MMBtu	$EFCO = EC / QH$
Stack NO <sub>x</sub> (as NO <sub>2</sub> )	ppmvN	10 ppmv	$ppmvN = \{(EN * \{mv / MWN\} * (10^6 / S2))\}$
Stack ROC (as CH <sub>4</sub> )	ppmvR	58 ppmv	$ppmvR = \{(ER * \{mv / MWR\} * (10^6 / S2))\}$
Stack CO	ppmvC	199 ppmv	$ppmvC = \{(EC * \{mv / MWC\} * (10^6 / S2))\}$

**FIXED ROOF TANK CALCULATION (AP-42: Chapter 7 Method)**

Basic Input Data	
liquid (1: G13, 2: G10, 3: G7, 4: C, 5: JP, 6: ker, 7: O2, 8: O6) =	4
liquid TVP =	5.5
if TVP is entered, enter TVP temperature (°F) =	70
tank heated (yes, no) =	no
if tank is heated, enter temp (°F) =	
vapor recovery system present? (yes, no) =	yes
is this a wash tank? (yes, no) =	no
will flashing losses occur in this tank? (yes, no) =	no
breather vent pressure setting range (psi) (def = 0.06) =	0.06

Attachment: 10.2  
 Permit: PTO 9584-R7  
 Date: 04/03/21  
 Tank: HC storage tank  
 Name: SoCalGas  
 Filename: HC tank calc.xls  
 District: Santa Barbara  
 Version: Tank-2c.xls

PRINT

Tank Data	
diameter (feet) =	10
capacity (enter barrels in first col, gals will compute) =	168 7,050
conical or dome roof? (c, d) =	c
shell height (feet) =	12
roof height (def = 1):	1
ave liq height (feet):	6
color {1: Spec Al, 2: Diff Al, 3: Lite, 4: Med, 5: Rd, 6: Wh} =	4
condition (1: Good, 2: Poor) =	1

**ATC PROPOSED EMISSIONS**

paint color	Paint Factor Matrix	
	paint condition	
	good	poor
spec alum	0.39	0.49
diff alum	0.60	0.68
lite grey	0.54	0.63
med grey	0.68	0.74
red	0.89	0.91
white	0.17	0.34

Molecular Weight Matrix	
liquid	mol wt
gas rvp 13	62
gas rvp 10	66
gas rvp 7	68
crude oil	50
JP -4	80
jet kerosene	130
fuel oil 2	130
fuel oil 6	190

Liquid Data		
	A	B
maximum daily throughput (bopd) =		8
Ann thput (gal): (enter value in Column A if not max PTE)		1,250E+05
RVP (psia):		7.0119
*API gravity =		39

Computed Values	
roof outage <sup>1</sup> (feet):	0.3
vapor space volume <sup>2</sup> (cubic feet):	495
turnovers <sup>3</sup> :	17.73
turnover factor <sup>4</sup> :	1
paint factor <sup>5</sup> :	0.68
surface temperatures (°R, °F)	
average <sup>6</sup> :	527.2 67.2
maximum <sup>7</sup> :	539 79
minimum <sup>8</sup> :	515.4 55.4
product factor <sup>9</sup> :	0.75
durnal vapor ranges	
temperature <sup>10</sup> (fahrenheit degrees):	47.2
vapor pressure <sup>11</sup> (psia):	2.175608
molecular weight <sup>12</sup> (lb/lb-mol):	50
TVP <sup>13</sup> (psia) [adjusted for ave liquid surface temp]:	5.23685
vapor density <sup>14</sup> (lb/cubic foot):	0.048283
vapor expansion factor <sup>15</sup> :	0.313
vapor saturation factor <sup>16</sup> :	0.363824
vented vapor volume (scf/bbl):	13.3
fraction ROG - flashing losses:	0.308
fraction ROG - evaporative losses:	0.885

Adjusted TVP Matrix	
liquid	TVP value
gas rvp 13	7.908
gas rvp 10	5.56
gas rvp 7	3.932
crude oil	5.23685
JP -4	1.516
jet kerosene	0.0103
fuel oil 2	0.009488
fuel oil 6	0.0000472

RVP Matrix	
liquid	RVP value
gas rvp 13	13
gas rvp 10	10
gas rvp 7	7
crude oil	7.011897
JP -4	2.7
jet kerosene	0.029
fuel oil 2	0.022
fuel oil 6	0.00019

Long-Term  
 VRU\_Eff = 95.00%

Short-Term  
 VRU\_Eff = 95.00%

Emissions	Uncontrolled ROC emissions			Controlled ROC emissions		
	lb/hr	lb/day	ton/year	lb/hr	lb/day	ton/year
breathing loss <sup>17</sup> =	0.10	2.31	0.42	0.00	0.12	0.02
working loss <sup>18</sup> =	0.06	1.42	0.26	0.00	0.07	0.01
flashing loss <sup>19</sup> =	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTALS =</b>	<b>0.16</b>	<b>3.73</b>	<b>0.68</b>	<b>0.01</b>	<b>0.19</b>	<b>0.03</b>

**FIXED ROOF TANK CALCULATION (AP-42: Chapter 7 Method)**

Basic Input Data	
liquid (1:G13, 2:G10, 3:G7, 4:C, 5:JP, 6:ker, 7:O2, 8:O6) =	4
liquid TVP =	5.5
if TVP is entered, enter TVP temperature (°F) =	70
tank heated {yes, no} =	no
if tank is heated, enter temp (°F) =	
vapor recovery system present? {yes, no} =	yes
is this a wash tank? {yes, no} =	no
will flashing losses occur in this tank? {yes, no} =	no
breather vent pressure setting range (psi) (def = 0.06):	0.06

Tank Data	
diameter (feet) =	12
capacity (enter barrels in first col, gals will compute) =	238 10,000
conical or dome roof? (c, d) =	c
shell height (feet) =	12
roof height (def = 1):	1
ave liq height (feet):	6
color (1:Spec Al, 2:Diff Al, 3:Libe, 4:Med, 5:Rd, 6:Wh) =	4
condition (1: Good, 2: Poor) =	1

Liquid Data		A	B
maximum daily throughput (bopd) =			49
Ann thput (gal) - (enter value in Column A if not max PTE)		7,500E+05	
RVP (psia):		7.0119	
*API gravity =			39

Computed Values	
roof outage <sup>1</sup> (feet):	0.3
vapor space volume <sup>2</sup> (cubic feet):	713
turnovers <sup>3</sup> :	75
turnover factor <sup>4</sup> :	0.57
paint factor <sup>5</sup> :	0.68
surface temperatures (°R, °F)	
average <sup>6</sup> :	527.2 67.2
maximum <sup>7</sup> :	539 79
minimum <sup>8</sup> :	515.4 55.4
product factor <sup>9</sup> :	0.75
diurnal vapor ranges	
temperature <sup>10</sup> (fahrenheit degrees):	47.2
vapor pressure <sup>11</sup> (psia):	2.175608
molecular weight <sup>12</sup> (lb/lb-mol):	50
TVP <sup>13</sup> (psia) (adjusted for ave liquid surface temp):	5.23685
vapor density <sup>14</sup> (lb/cubic foot):	0.046283
vapor expansion factor <sup>15</sup> :	0.313
vapor saturation factor <sup>16</sup> :	0.363824
vented vapor volume (scf/bbl):	13.3
fraction ROG - flashing losses:	0.308
fraction ROG - evaporative losses:	0.885

Emissions	Uncontrolled ROC emissions			Controlled ROC emissions		
	lb/hr	lb/day	ton/year	lb/hr	lb/day	ton/year
breathing loss <sup>17</sup> =	0.14	3.33	0.61	0.01	0.17	0.03
working loss <sup>18</sup> =	0.20	4.85	0.88	0.01	0.24	0.04
flashing loss <sup>19</sup> =	0.00	0.00	0.00	0.00	0.00	0.00
<b>TOTALS =</b>	<b>0.34</b>	<b>8.17</b>	<b>1.49</b>	<b>0.02</b>	<b>0.41</b>	<b>0.07</b>

Attachment: 10.2  
 Permit: PTO 9584-R7  
 Date: 04/03/21  
 Tank: Flotation-1  
 Name: SoCalGas  
 Filename: \\net\tank1-calc.xls  
 District: Santa Barbara  
 Version: Tank-2c.xls

PRINT

**ATC PROPOSED EMISSIONS**

paint color	paint condition	
	good	poor
spec alum	0.39	0.49
diff alum	0.60	0.68
lte grey	0.54	0.63
med grey	0.68	0.74
red	0.89	0.91
white	0.17	0.34

Molecular Weight Matrix	
liquid	mol wt
gas rvp 13	62
gas rvp 10	66
gas rvp 7	68
crude oil	50
JP -4	80
jet kerosene	130
fuel oil 2	130
fuel oil 6	190

Adjusted TVP Matrix	
liquid	TVP value
gas rvp 13	7.908
gas rvp 10	5.56
gas rvp 7	3.932
crude oil	5.23685
JP -4	1.516
jet kerosene	0.0103
fuel oil 2	0.009488
fuel oil 6	0.0003472

RVP Matrix	
liquid	RVP value
gas rvp 13	13
gas rvp 10	10
gas rvp 7	7
crude oil	7.011997
JP -4	2.7
jet kerosene	0.029
fuel oil 2	0.022
fuel oil 6	0.00019

Long-Term  
 VRU\_Eff = 95.00%

Short-Term  
 VRU\_Eff = 95.00%

**10.3 Fee Statement**

Emission fees for the La Goleta facility are based on District Rule 210, Schedule A (July 2019).





Device No.	Device Name	Fee Schedule	Qty of Fee Units	Fee per Unit	Fee Units	Max or Min. Fee Apply?	Number of Same Devices	Pro Rate Factor	Device Fee	Penalty Fee?	Fee Credit	Total Fee per Device
100893	Electric Motors Driving Glycol Pumps	A2	20.000	38.13	Per total rated hp	No	3	1.000	2,287.80	0.00	0.00	2,287.80
100892	Electric Motors Driving Glycol Rectifier Pumps	A2	5.000	38.13	Per total rated hp	No	2	1.000	381.30	0.00	0.00	381.30
100874	Gas/Glycol Contactor	A6	1.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
100873	Gas/Glycol Contactors	A6	1.000	4.22	Per 1000 gallons	Min	3	1.000	219.21	0.00	0.00	219.21
113417	Glycol Particulate Filters	A1.a	2.000	73.54	Per equipment	No	2	1.000	294.16	0.00	0.00	294.16
100889	Glycol Rectifier	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100876	Accumulator Stack	A1.a	1.000	73.54	Per equipment	No	2	1.000	147.08	0.00	0.00	147.08
100897	Blower	A2	1.750	38.13	Per total rated hp	Min	1	1.000	73.07	0.00	0.00	73.07
008670	Underground Gas Storage Wells	A1.a	1.000	73.54	Per equipment	No	14	1.000	1,029.56	0.00	0.00	1,029.56
100903	Gas Stacks/Vents	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
008669	Grade Level Loading Station	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
001218	Brine Water Storage Tank	A6	40.600	4.22	Per 1000 gallons	No	1	1.000	171.33	0.00	0.00	171.33
100887	Condensate Surge Tank	A6	1.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
001219	Flotation Cell #1	A6	10.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
100901	Odorant Storage Tank	A6	1.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
113420	Odorant Expansion Tanks	A1.a	1.000	73.54	Per equipment	No	2	1.000	147.08	0.00	0.00	147.08
100899	Methanol Storage Tank	A6	0.500	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
001220	Flotation Cell #2	A6	10.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
001217	Liquid Hydrocarbon Storage Tank	A6	7.050	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07

001211	Flare #1 (Plant #14)	A3	1.600	551.72	Per 1 million Btu input	No	1	1.000	882.75	0.00	0.00	882.75
001212	Flare #2 (Plant #14)	A3	1.600	551.72	Per 1 million Btu input	No	1	1.000	882.75	0.00	0.00	882.75
001215	Flare #3 (Tank Farm)	A3	1.600	551.72	Per 1 million Btu input	No	1	1.000	882.75	0.00	0.00	882.75
100909	Flare Gas Sulfur Removal Units	A1.a	2.000	73.54	Per equipment	No	2	1.000	294.16	0.00	0.00	294.16
008666	E/S Diesel Firewater Pump # 12A	A3	0.930	551.72	Per 1 million Btu input	No	1	1.000	513.10	0.00	0.00	513.10
001199	IC Engine: Gas Compressor # 2	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
001201	IC Engine: Gas Compressor # 4	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
001205	IC Engine: Gas Compressor # 8	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
001204	IC Engine: Gas Compressor # 7	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
001203	IC Engine: Gas Compressor # 6	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
107546	Micro-turbine Generator, Unit 4	A3	0.804	551.72	Per 1 million Btu input	No	1	1.000	443.58	0.00	0.00	443.58
001202	IC Engine: Gas Compressor # 5	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
001200	IC Engine: Gas Compressor # 3	A3	7.300	551.72	Per 1 million Btu input	No	1	1.000	4,027.56	0.00	0.00	4,027.56
008668	E/S Diesel Firewater Pump # 13A	A3	0.930	551.72	Per 1 million Btu input	No	1	1.000	513.10	0.00	0.00	513.10
107543	Micro-turbine Generator, Unit 1	A3	0.804	551.72	Per 1 million Btu input	No	1	1.000	443.58	0.00	0.00	443.58
107544	Micro-turbine Generator, Unit 2	A3	0.804	551.72	Per 1 million Btu input	No	1	1.000	443.58	0.00	0.00	443.58
107545	Micro-turbine Generator, Unit 3	A3	0.804	551.72	Per 1 million Btu input	No	1	1.000	443.58	0.00	0.00	443.58
100865	Cooling Motor Fan in Heat Exchanger	A2	40.000	38.13	Per total rated hp	No	1	1.000	1,525.20	0.00	0.00	1,525.20
100867	Cooling Motor Fan in Heat Exchanger	A2	40.000	38.13	Per total rated hp	No	1	1.000	1,525.20	0.00	0.00	1,525.20
100869	Glycol Unit Condenser Fan Motor	A2	6.000	38.13	Per total rated hp	No	1	1.000	228.78	0.00	0.00	228.78
100870	Glycol Unit Condenser Fan Motor	A2	5.000	38.13	Per total rated hp	No	1	1.000	190.65	0.00	0.00	190.65
100872	Oil Heater Blower Fan	A2	7.500	38.13	Per total rated hp	No	1	1.000	285.98	0.00	0.00	285.98
107541	Oil Heater Blower Fan, New	A2	1.000	38.13	Per total rated hp	Min	1	1.000	73.07	0.00	0.00	73.07
100868	Oil Heater Circulation Pump Motors	A2	40.000	38.13	Per total rated hp	No	1	1.000	1,525.20	0.00	0.00	1,525.20

100898	Condensate Pump	A2	5.000	38.13	Per total rated hp	No	1	1.000	190.65	0.00	0.00	190.65
100871	Condensate Pumps	A2	1.500	38.13	Per total rated hp	Min	1	1.000	73.07	0.00	0.00	73.07
100904	Vent Stack Sump Pump	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100900	Pneumatic Pumps	A1.a	1.000	73.54	Per equipment	No	2	1.000	147.08	0.00	0.00	147.08
100879	High Pressure Separator	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100878	Glycol/Gas Separator	A6	1.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
100881	Low Pressure Separator	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100888	Horizontal Separator	A6	1.000	4.22	Per 1000 gallons	Min	1	1.000	73.07	0.00	0.00	73.07
100895	High Pressure Separator	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100896	Low Pressure Separator	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100880	Sand Trap	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100875	Vapor Condensing Coils	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
100894	Vapor Condensing Coils	A1.a	1.000	73.54	Per equipment	No	1	1.000	73.54	0.00	0.00	73.54
113985	Heater #1	A3	2.000	551.72	Per 1 million Btu input	No	1	1.000	1,103.44	0.00	0.00	1,103.44
113987	Heater #2	A3	2.000	551.72	Per 1 million Btu input	No	1	1.000	1,103.44	0.00	0.00	1,103.44
001214	Hot Oil Heater #1	A3	3.500	551.72	Per 1 million Btu input	No	1	1.000	1,931.02	0.00	0.00	1,931.02
113419	Odorant Metering Pumps	A1.a	2.000	73.54	Per equipment	No	2	1.000	294.16	0.00	0.00	294.16
391978	Intermediate Bleed Devices	A1.a	1.000	73.54	Per equipment	No	10	1.000	735.40	0.00	0.00	735.40
100866	Cooling Motor Fan in Heat Exchanger	A2	40.000	38.13	Per total rated hp	No	1	1.000	1,525.20	0.00	0.00	1,525.20
001206	IC Engine: Gas Compressor # 9	A3	10.020	551.72	Per 1 million Btu input	No	1	1.000	5,528.23	0.00	0.00	5,528.23
	<b>Device Fee Sub-Totals =</b>								<b>\$58,138.77</b>	<b>\$0.00</b>	<b>\$0.00</b>	
	<b>Device Fee Total =</b>											<b>\$58,138.77</b>

**Permit Fee**

Fee Based on Devices

\$58,138.77

**Fee Statement Grand Total = \$58,138**

Notes:

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- (1) Fee Schedule Items are listed in District Rule 210, Fee Schedule "A".
- (2) The term "Units" refers to the unit of measure defined in the Fee Schedule.

## 10.4 IDS Database Emission Tables

**Table 10.4-1  
Permitted Potential to Emit (PPTE)**

	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>TSP</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Part 70/District PTO 9584-R6 – La Goleta</b>							
lb/day	544.80	1,360.61	7,226.92	27.08	32.60	32.60	32.60
tons/year	96.50	238.20	1,318.29	4.96	5.76	5.76	5.76

**Table 10.4-2  
Facility Potential to Emit (FPTE)**

	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>TSP</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Part 70/District PTO 9584-R6 – La Goleta</b>							
lb/day	544.80	1,360.72	7,226.92	27.08	32.60	32.60	32.60
tons/year	96.50	238.22	1,318.29	4.96	5.76	5.76	5.76

**Table 10.4-3  
Facility ‘Federal’ Potential to Emit**

	<b>NO<sub>x</sub></b>	<b>ROC</b>	<b>CO</b>	<b>SO<sub>x</sub></b>	<b>TSP</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
<b>Part 70/District PTO 9584-R6 – La Goleta</b>							
lb/day	592.25	1,301.07	7,279.58	28.05	33.29	33.29	33.29
tons/year	105.16	277.34	1,327.89	5.14	5.88	5.88	5.88

## 10.5 Equipment List

PT-70/Reeval 09584 R7 / FID: 01734 La Goleta / SSID: 05019

### A PERMITTED EQUIPMENT

#### 1 Glycol Dehydration Unit

##### 1.1 Electric Motors Driving Glycol Pumps

<i>Device ID #</i>	<b>100893</b>	<i>Device Name</i>	<b>Electric Motors Driving Glycol Pumps</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Rated at 20 hp each.		
<i>Description</i>			

##### 1.2 Electric Motors Driving Glycol Rectifier Pumps

<i>Device ID #</i>	<b>100892</b>	<i>Device Name</i>	<b>Electric Motors Driving Glycol Rectifier Pumps</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Rated at 7.5 hp each.		
<i>Description</i>			

##### 1.3 Gas/Glycol Contactor

<i>Device ID #</i>	<b>100874</b>	<i>Device Name</i>	<b>Gas/Glycol Contactor</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Braun & Lacy	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	One (1) unit 4.5' dia. by 38.9' long; with a control tank 16" dia. by 17.67'		
<i>Description</i>	long.		

## 1.4 Gas/Glycol Contactors

<i>Device ID #</i>	<b>100873</b>	<i>Device Name</i>	<b>Gas/Glycol Contactors</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Braun & Lacy	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Three (3) units each 4.5' dia. by 37.8' long; with three (3) control tanks,		
<i>Description</i>	each 16" dia. by 15.25' long.		

## 1.5 Glycol Particulate Filters

<i>Device ID #</i>	<b>113417</b>	<i>Device Name</i>	<b>Glycol Particulate Filters</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Eaton Corporation	<i>Operator ID</i>	F-GL3A and F-GL3B
<i>Model</i>	MBF 0402	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	1.83' dia by 3.04' tall, replace two Rol-Pak filters (Device ID 100877)		
<i>Description</i>			

## 1.6 Glycol Rectifier

<i>Device ID #</i>	<b>100889</b>	<i>Device Name</i>	<b>Glycol Rectifier</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Fisher-Klosterman	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	18" diameter.		
<i>Description</i>			

## 2 Equipment Units at the Dehydration Plant

### 2.1 Accumulator Stack

<i>Device ID #</i>	<b>100876</b>	<i>Device Name</i>	<b>Accumulator Stack</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Closed. 2 stacks.		
<i>Description</i>			

**2.2 Blower**

<i>Device ID #</i>	<b>100897</b>	<i>Device Name</i>	<b>Blower</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	For VRU at Tank Farm: electric motor, 1.75 hp.		
<i>Description</i>			

**2.3 Underground Gas Storage Wells**

<i>Device ID #</i>	<b>008670</b>	<i>Device Name</i>	<b>Underground Gas Storage Wells</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	14.00 Total Wells
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	14 Total Wells		
<i>Description</i>			

**2.4 Gas Stacks/Vents**

<i>Device ID #</i>	<b>100903</b>	<i>Device Name</i>	<b>Gas Stacks/Vents</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	For pipeline depressurizing operations.		
<i>Description</i>			



## 2.5 Grade Level Loading Station

<i>Device ID #</i>	<b>008669</b>	<i>Device Name</i>	<b>Grade Level Loading Station</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Grade level loading station to load HC condensate to tanker trucks by		
<i>Description</i>	motor driven pump; not equipped with VRU.		

## 3 Fixed Roof Tanks

### 3.1 Brine Water Storage Tank

<i>Device ID #</i>	<b>001218</b>	<i>Device Name</i>	<b>Brine Water Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	40600.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	24' dia. by 12' height.		
<i>Description</i>			

### 3.2 Condensate Surge Tank

<i>Device ID #</i>	<b>100887</b>	<i>Device Name</i>	<b>Condensate Surge Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	3' dia by 32' tall.		
<i>Description</i>			

### 3.3 Flotation Cell #1

<i>Device ID #</i>	<b>001219</b>	<i>Device Name</i>	<b>Flotation Cell #1</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	10000.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	12' dia. by 12' height.		
<i>Description</i>			

### 3.4 Odorant Storage Tank

<i>Device ID #</i>	<b>100901</b>	<i>Device Name</i>	<b>Odorant Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	1000.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Relief valve set @ 33 psig, odorant -- Captan 50/Thiophane.		
<i>Description</i>			

### 3.5 Odorant Expansion Tanks

<i>Device ID #</i>	<b>113420</b>	<i>Device Name</i>	<b>Odorant Expansion Tanks</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	10" by 13", serving the odorant metering system. Controlled by a 55		
<i>Description</i>	gallon carbon canister.		

### 3.6 Methanol Storage Tank

<i>Device ID #</i>	<b>100899</b>	<i>Device Name</i>	<b>Methanol Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	500.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Pressurized with natural gas; with pressure relief valve.		
<i>Description</i>			

### 3.7 Flotation Cell #2

<i>Device ID #</i>	<b>001220</b>	<i>Device Name</i>	<b>Flotation Cell #2</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	10000.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	12' dia. by 12' height.		
<i>Description</i>			

### 3.8 Liquid Hydrocarbon Storage Tank

<i>Device ID #</i>	<b>001217</b>	<i>Device Name</i>	<b>Liquid Hydrocarbon Storage Tank</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	7050.00 Gallons
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	10' dia. by 12' height.		
<i>Description</i>			

## 4 Flares

### 4.1 Flare #1 (Plant #14)

<i>Device ID #</i>	<b>001211</b>	<i>Device Name</i>	<b>Flare #1 (Plant #14)</b>
<i>Rated Heat Input</i>	1.600 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	#1
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Pilot w/ natural gas.		
<i>Description</i>			

### 4.2 Flare #2 (Plant #14)

<i>Device ID #</i>	<b>001212</b>	<i>Device Name</i>	<b>Flare #2 (Plant #14)</b>
<i>Rated Heat Input</i>	1.600 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	#2
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Pilot w/natural gas.		
<i>Description</i>			

**4.3 Flare #3 (Tank Farm)**

<i>Device ID #</i>	<b>001215</b>	<i>Device Name</i>	<b>Flare #3 (Tank Farm)</b>
<i>Rated Heat Input</i>	1.600 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	#3
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Pilot w/ natural gas.		
<i>Description</i>			

**5 Flare Gas Sulfur Removal Units**

<i>Device ID #</i>	<b>100909</b>	<i>Device Name</i>	<b>Flare Gas Sulfur Removal Units</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	SULFATREAT and CEI-KMN Units, for waste gas treatment.		
<i>Description</i>			

**6 Fugitive Hydrocarbon Components - Gas/LightLiquid Svc - CLP**

**6.1 Valves - Accessible**

<i>Device ID #</i>	<b>100882</b>	<i>Device Name</i>	<b>Valves - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	3199.00 Component Leakpath
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Valves		
<i>Description</i>			

## 6.2 Compressor Seals - Accessible

<i>Device ID #</i>	<b>100885</b>	<i>Device Name</i>	<b>Compressor Seals - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	14.00 Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	7 compressors with 2 seals each,		

## 6.3 Connections - Accessible

<i>Device ID #</i>	<b>100883</b>	<i>Device Name</i>	<b>Connections - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	14685.00 Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Connections		

## 6.4 Pump Seals - Accessible

<i>Device ID #</i>	<b>100884</b>	<i>Device Name</i>	<b>Pump Seals - Accessible</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	5.00 Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**6.5 Pressure Relief Devices - Uncontrolled**

<i>Device ID #</i>	<b>100886</b>	<i>Device Name</i>	<b>Pressure Relief Devices - Uncontrolled</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	50.00 Component Leakpath
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7 IC Engines with Controlled Emissions**

**7.1 Catalytic Converter #3**

<i>Device ID #</i>	<b>110815</b>	<i>Device Name</i>	<b>Catalytic Converter #3</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>	DCL International DC74	<i>Operator ID Serial Number</i>	#3 360344
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.2 Catalytic Converter #4**

<i>Device ID #</i>	<b>110816</b>	<i>Device Name</i>	<b>Catalytic Converter #4</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>	DCL International DC74	<i>Operator ID Serial Number</i>	#4 193377
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.3 Catalytic Converter #5**

<i>Device ID #</i>	<b>110817</b>	<i>Device Name</i>	<b>Catalytic Converter #5</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>	DCL International DC74	<i>Operator ID Serial Number</i>	#5 198431
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.4 Catalytic Converter #6**

<i>Device ID #</i>	<b>110818</b>	<i>Device Name</i>	<b>Catalytic Converter #6</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	DCL International	<i>Operator ID</i>	#6
<i>Model</i>	DC74	<i>Serial Number</i>	198429
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.5 Catalytic Converter #7**

<i>Device ID #</i>	<b>110819</b>	<i>Device Name</i>	<b>Catalytic Converter #7</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	DCL International	<i>Operator ID</i>	#7
<i>Model</i>	DC74	<i>Serial Number</i>	7198428
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.6 Catalytic Converter #8**

<i>Device ID #</i>	<b>110820</b>	<i>Device Name</i>	<b>Catalytic Converter #8</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	DCL International	<i>Operator ID</i>	#8
<i>Model</i>	DC74	<i>Serial Number</i>	336764
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.7 E/S Diesel Firewater Pump # 12A**

<i>Device ID #</i>	<b>008666</b>	<i>Device Name</i>	<b>E/S Diesel Firewater Pump # 12A</b>
<i>Rated Heat Input</i>	0.930 MMBtu/Hour	<i>Physical Size</i>	133.00 Brake Horsepower
<i>Manufacturer</i>	Cummins	<i>Operator ID</i>	# 12A
<i>Model</i>	V-378-F2	<i>Serial Number</i>	20195869
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.8 IC Engine: Gas Compressor # 2**

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<i>Device ID #</i>	<b>001199</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 2</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	650.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 2
<i>Model</i>	LVG-82,	<i>Serial Number</i>	8AL126
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

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**7.9 IC Engine: Gas Compressor # 4**

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<i>Device ID #</i>	<b>001201</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 4</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	650.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 4
<i>Model</i>	LVG-82	<i>Serial Number</i>	8AL128
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

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**7.10 IC Engine: Gas Compressor # 8**

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<i>Device ID #</i>	<b>001205</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 8</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	660.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 8
<i>Model</i>	KVG-62	<i>Serial Number</i>	6EL267
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

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**7.11 IC Engine: Gas Compressor # 7**

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<i>Device ID #</i>	<b>001204</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 7</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	660.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 7
<i>Model</i>	KVG-62	<i>Serial Number</i>	6EL266
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

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**7.12 IC Engine: Gas Compressor # 6**

<i>Device ID #</i>	<b>001203</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 6</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	660.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 6
<i>Model</i>	KVG-62	<i>Serial Number</i>	6EL265
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.13 Micro-turbine Generator, Unit 4**

<i>Device ID #</i>	<b>107546</b>	<i>Device Name</i>	<b>Micro-turbine Generator, Unit 4</b>
<i>Rated Heat Input</i>	0.804 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	Capstone	<i>Operator ID</i>	# 4
<i>Model</i>	C-60	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	NG-fired unit		

**7.14 IC Engine: Gas Compressor # 5**

<i>Device ID #</i>	<b>001202</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 5</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	650.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 5
<i>Model</i>	LVG-82	<i>Serial Number</i>	8AL127
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.15 IC Engine: Gas Compressor # 3**

<i>Device ID #</i>	<b>001200</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 3</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	650.00 Horsepower
<i>Manufacturer</i>	Ingersoll-Rand	<i>Operator ID</i>	Gas Compressor # 3
<i>Model</i>	LVG-82	<i>Serial Number</i>	8AL129
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.16 E/S Diesel Firewater Pump # 13A**

<i>Device ID #</i>	<b>008668</b>	<i>Device Name</i>	<b>E/S Diesel Firewater Pump # 13A</b>
<i>Rated Heat Input</i>	0.930 MMBtu/Hour	<i>Physical Size</i>	133.00 Brake Horsepower
<i>Manufacturer</i>	Cummins	<i>Operator ID</i>	# 13A
<i>Model</i>	V-378-F2	<i>Serial Number</i>	20195868
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**7.16.1 Catalytic Converter #2**

<i>Device ID #</i>	<b>110814</b>	<i>Device Name</i>	<b>Catalytic Converter #2</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	DCL International	<i>Operator ID</i>	#2
<i>Model</i>	DC74	<i>Serial Number</i>	164728
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

### 7.17 Micro-turbine Generator, Unit 1

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<i>Device ID #</i>	<b>107543</b>	<i>Device Name</i>	<b>Micro-turbine Generator, Unit 1</b>
<i>Rated Heat Input</i>	0.804 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	Capstone	<i>Operator ID</i>	#1
<i>Model</i>	C-60	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	NG-fired unit.		
<i>Description</i>			

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### 7.18 Micro-turbine Generator, Unit 2

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<i>Device ID #</i>	<b>107544</b>	<i>Device Name</i>	<b>Micro-turbine Generator, Unit 2</b>
<i>Rated Heat Input</i>	0.804 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	Capstone	<i>Operator ID</i>	# 2
<i>Model</i>	C-60	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	NG-fired unit		
<i>Description</i>			

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### 7.19 Micro-turbine Generator, Unit 3

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<i>Device ID #</i>	<b>107545</b>	<i>Device Name</i>	<b>Micro-turbine Generator, Unit 3</b>
<i>Rated Heat Input</i>	0.804 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	Capstone	<i>Operator ID</i>	# 3
<i>Model</i>	C-60	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	NG-fired unit		
<i>Description</i>			

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## 8 Other Equipment Units (New) at Compressor Plant

### 8.1 Cooling Motor Fan in Heat Exchanger

<i>Device ID #</i>	<b>100865</b>	<i>Device Name</i>	<b>Cooling Motor Fan in Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-1
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 40 hp electric motor.		
<i>Description</i>			

### 8.2 Cooling Motor Fan in Heat Exchanger

<i>Device ID #</i>	<b>100867</b>	<i>Device Name</i>	<b>Cooling Motor Fan in Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-3
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 40 hp electric motor.		
<i>Description</i>			

### 8.3 Glycol Unit Condenser Fan Motor

<i>Device ID #</i>	<b>100869</b>	<i>Device Name</i>	<b>Glycol Unit Condenser Fan Motor</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-4 A/B
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 6 hp electric motor.		
<i>Description</i>			

#### 8.4 Glycol Unit Condenser Fan Motor

<i>Device ID #</i>	<b>100870</b>	<i>Device Name</i>	<b>Glycol Unit Condenser Fan Motor</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-5
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 5 hp electric motor.		
<i>Description</i>			

#### 8.5 Oil Heater Blower Fan

<i>Device ID #</i>	<b>100872</b>	<i>Device Name</i>	<b>Oil Heater Blower Fan</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-6
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 7.5 hp electric motor.		
<i>Description</i>			

#### 8.6 Oil Heater Blower Fan, New

<i>Device ID #</i>	<b>107541</b>	<i>Device Name</i>	<b>Oil Heater Blower Fan, New</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	1.00 Horsepower (Electric Motor)
<i>Manufacturer</i>		<i>Operator ID</i>	None
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Additional blower fan at compressor plant for the oil heater		
<i>Description</i>			

#### 8.7 Oil Heater Circulation Pump Motors

<i>Device ID #</i>	<b>100868</b>	<i>Device Name</i>	<b>Oil Heater Circulation Pump Motors</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMP-5 A/B
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 40 hp electric motor.		
<i>Description</i>			

## 9 Pumps

### 9.1 Condensate Pump

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<i>Device ID #</i>	<b>100898</b>	<i>Device Name</i>	<b>Condensate Pump</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Serving the storage tanks; 5 hp electric motor drive.		
<i>Description</i>			

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### 9.2 Condensate Pumps

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<i>Device ID #</i>	<b>100871</b>	<i>Device Name</i>	<b>Condensate Pumps</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMP-6 A/B
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Powered by a 1.5 hp electric motor.		
<i>Description</i>			

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### 9.3 Vent Stack Sump Pump

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<i>Device ID #</i>	<b>100904</b>	<i>Device Name</i>	<b>Vent Stack Sump Pump</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Pneumatic.		
<i>Description</i>			

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## 9.4 Pneumatic Pumps

<i>Device ID #</i>	<b>100900</b>	<i>Device Name</i>	<b>Pneumatic Pumps</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Serving the methanol tank.		
<i>Description</i>			

## 10 Separator Units in Processes

### 10.1 High Pressure Separator

<i>Device ID #</i>	<b>100879</b>	<i>Device Name</i>	<b>High Pressure Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	V-100, welded construction, vertical, 3' dia. by 14.3' tall; connected to gas		
<i>Description</i>	collection system.		

### 10.2 Glycol/Gas Separator

<i>Device ID #</i>	<b>100878</b>	<i>Device Name</i>	<b>Glycol/Gas Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Southwest Welding	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	4' dia. by 10.2' tall.		
<i>Description</i>			

### 10.3 Low Pressure Separator

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<b>Device ID #</b>	<b>100881</b>	<b>Device Name</b>	<b>Low Pressure Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	V-101, welded construction, vertical, 3' dia. by 14.3' tall; connected to gas collection system.		

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### 10.4 Horizontal Separator

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<b>Device ID #</b>	<b>100888</b>	<b>Device Name</b>	<b>Horizontal Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	900.00 Gallons
<i>Manufacturer</i>	King	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	With a separate bottom barrel.		

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### 10.5 High Pressure Separator

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<b>Device ID #</b>	<b>100895</b>	<b>Device Name</b>	<b>High Pressure Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	V-100A, welded construction, vertical, 3' dia. by 14.3' tall; connected to gas collection system.		

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### 10.6 Low Pressure Separator

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<b>Device ID #</b>	<b>100896</b>	<b>Device Name</b>	<b>Low Pressure Separator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	V-101A, welded construction, vertical, 3' dia. by 14.3' tall; connected to gas collection system.		

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## 10.7 Sand Trap

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<b><i>Device ID #</i></b>	<b>100880</b>	<b><i>Device Name</i></b>	<b>Sand Trap</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	V-200, welded construction, horizontal, 3' dia. by 19.8' long; connected to		
<i>Description</i>	gas collection system.		

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## 10.8 Vapor Condensing Coils

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<b><i>Device ID #</i></b>	<b>100875</b>	<b><i>Device Name</i></b>	<b>Vapor Condensing Coils</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Happy Co.	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	4.0' wide by 18' long.		
<i>Description</i>			

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## 10.9 Vapor Condensing Coils

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<b><i>Device ID #</i></b>	<b>100894</b>	<b><i>Device Name</i></b>	<b>Vapor Condensing Coils</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Air-X-Changer	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	0.67' wide by 7.3' long.		
<i>Description</i>			

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## 11 Wipe Cleaning Solvent Usage

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<b><i>Device ID #</i></b>	<b>100914</b>	<b><i>Device Name</i></b>	<b>Wipe Cleaning Solvent Usage</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	Also included in Part 70 Insignificant Activities.		
<i>Description</i>			

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## 11.1 Solvent Usage

<i>Device ID #</i>	<b>008680</b>	<i>Device Name</i>	<b>Solvent Usage</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>			
<i>Description</i>			

## 12 External Combustion Units

### 12.1 Heater #1

<i>Device ID #</i>	<b>113985</b>	<i>Device Name</i>	<b>Heater #1</b>
<i>Rated Heat Input</i>	2.000 MMBtu/Hour	<i>Operator ID</i>	H-201A
<i>Manufacturer</i>	Parker	<i>Serial Number</i>	60449
<i>Model</i>	G-2304RL	<i>Stacked Unit?</i>	Yes
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Emission Control Basis</i>	R360		
<i>Device</i>	- Full Modulation		
<i>Description</i>	- Low-NOx Burner - Fired on Natural Gas		

### 12.2 Heater #2

<i>Device ID #</i>	<b>113987</b>	<i>Device Name</i>	<b>Heater #2</b>
<i>Rated Heat Input</i>	2.000 MMBtu/Hour	<i>Physical Size</i>	2.00 MMBtu/Hour
<i>Manufacturer</i>	Parker	<i>Operator ID</i>	H-201B
<i>Model</i>	G_2304RL	<i>Serial Number</i>	60369
<i>Part 70 Insig?</i>	No	<i>Stacked Unit</i>	Yes
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device</i>	- Full Modulation		
<i>Description</i>	- Low-NOx Burner - Fired on Natural Gas		

### 12.3 Hot Oil Heater #1

<i>Device ID #</i>	<b>001214</b>	<i>Device Name</i>	<b>Hot Oil Heater #1</b>
<i>Rated Heat Input</i>	3.500 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	Fulton Thermal Corporation	<i>Operator ID</i>	HOH #1
<i>Model</i>	FT-0400C	<i>Serial Number</i>	2788C
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

### 13 Solvent Cleaning and Usage

<i>Device ID #</i>	<b>107542</b>	<i>Device Name</i>	<b>Solvent Cleaning and Usage</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	General solvent usage and cleaning.		

### 14 Odorant Metering Pumps

<i>Device ID #</i>	<b>113419</b>	<i>Device Name</i>	<b>Odorant Metering Pumps</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	19.50 MMcf/hr
<i>Manufacturer</i>	YZ Systems	<i>Operator ID</i>	
<i>Model</i>	NJEX 8000	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Air actuated, w/positive displacement and reciprocating plunger. Replaces Device ID 100902		

### 15 Intermediate Bleed Devices

<i>Device ID #</i>	<b>391978</b>	<i>Device Name</i>	<b>Intermediate Bleed Devices</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	10 Devices		

## 16 Well Casing Vents

### 16.1 Bishop 1 Well Casing Vent

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<i>Device ID #</i>	<b>393360</b>	<i>Device Name</i>	<b>Bishop 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303398
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.2 Chase and Bryce 1 Well Casing Vent

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<i>Device ID #</i>	<b>393361</b>	<i>Device Name</i>	<b>Chase and Bryce 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303399
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.3 Edwards 1 Well Casing Vent

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<i>Device ID #</i>	<b>393362</b>	<i>Device Name</i>	<b>Edwards 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303401
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.4 Edwards 2 Well Casing Vent

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<i>Device ID #</i>	<b>393363</b>	<i>Device Name</i>	<b>Edwards 2 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303402
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.5 Goleta 1 Well Casing Vent

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<i>Device ID #</i>	<b>393364</b>	<i>Device Name</i>	<b>Goleta 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303403
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.6 Miller 1 Well Casing Vent

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<i>Device ID #</i>	<b>393365</b>	<i>Device Name</i>	<b>Miller 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303404
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.7 Miller 2 Well Casing Vent

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<i>Device ID #</i>	<b>393366</b>	<i>Device Name</i>	<b>Miller 2 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303405
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.8 Miller 3 Well Casing Vent

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<i>Device ID #</i>	<b>393367</b>	<i>Device Name</i>	<b>Miller 3 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303406
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.9 Miller 4 Well Casing Vent

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<i>Device ID #</i>	<b>393368</b>	<i>Device Name</i>	<b>Miller 4 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303407
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.10 Miller 6 Well Casing Vent

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<i>Device ID #</i>	<b>393370</b>	<i>Device Name</i>	<b>Miller 6 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303409
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.11 Miller 7 Well Casing Vent

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<i>Device ID #</i>	<b>393371</b>	<i>Device Name</i>	<b>Miller 7 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303410
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.12 Miller 8 Well Casing Vent

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<i>Device ID #</i>	<b>393372</b>	<i>Device Name</i>	<b>Miller 8 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303411
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.13 Miller 9 Well Casing Vent

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<i>Device ID #</i>	<b>393373</b>	<i>Device Name</i>	<b>Miller 9 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08320754
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.14 Miller 10 Well Casing Vent

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<i>Device ID #</i>	<b>393374</b>	<i>Device Name</i>	<b>Miller 10 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08320755
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.15 Miller 11 Well Casing Vent

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<i>Device ID #</i>	<b>393375</b>	<i>Device Name</i>	<b>Miller 11 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08320756
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.16 Miller 12 Well Casing Vent

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<i>Device ID #</i>	<b>393376</b>	<i>Device Name</i>	<b>Miller 12 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08320757
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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### 16.17 More 2 Well Casing Vent

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<i>Device ID #</i>	<b>393377</b>	<i>Device Name</i>	<b>More 2 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303413
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

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**16.18 More 3 Well Casing Vent**

<i>Device ID #</i>	<b>393378</b>	<i>Device Name</i>	<b>More 3 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08303414
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**16.19 Todd 1 Well Casing Vent**

<i>Device ID #</i>	<b>393379</b>	<i>Device Name</i>	<b>Todd 1 Well Casing Vent</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	08322878
<i>Location Note</i>			
<i>Device Description</i>	Gas Storage Well.		
	Intermittent open well casing vent. Subject to §95668 of CARB O&G GHG Regulation. Not connected to Vapor Recovery.		
	Serial Number is the Well API Number		

**17 Cooling Motor Fan in Heat Exchanger**

<i>Device ID #</i>	<b>100866</b>	<i>Device Name</i>	<b>Cooling Motor Fan in Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	EMF-2
<i>Model</i>		<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Powered by a 40 hp electric motor.		

**18 IC Engine: Gas Compressor # 9**

<i>Device ID #</i>	<b>001206</b>	<i>Device Name</i>	<b>IC Engine: Gas Compressor # 9</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	1100.00 Horsepower
<i>Manufacturer</i>	Cooper-Bessemer	<i>Operator ID</i>	Gas Compressor # 9
<i>Model</i>	GMV-10C	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>			

**B EXEMPT EQUIPMENT**

**1 IC Engine: Emergency Electrical Generator**

<i>Device ID #</i>	<b>008665</b>	<i>Device Name</i>	<b>IC Engine: Emergency Electrical Generator</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	160.00 Horsepower
<i>Manufacturer</i>	Waukesha	<i>Operator ID</i>	
<i>Model</i>	F817GU	<i>Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 202.F.1.d. Spark ignition piston-type ICEs for emergency electrical power generation	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Operated < 200 hours/year. Also included in Part 70 Insignificant Activities.		

**2 Glycol/Glycol Heat Exchanger**

<i>Device ID #</i>	<b>100890</b>	<i>Device Name</i>	<b>Glycol/Glycol Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	Brown Fin Tube	<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 202.L.1 Heat Exchangers	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Parts # E-301, E-302 & E-303, piped in series, 6.5' tall by 24' long.		

**3 Diesel Tanks**

<i>Device ID #</i>	<b>100911</b>	<i>Device Name</i>	<b>Diesel Tanks</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>		<i>Operator ID</i>	
<i>Part 70 Insig?</i>	Yes	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta	<i>District Rule Exemption:</i> 202.V.2 Storage Of Refined Fuel Oil W/Grav <=40 Api	
<i>Device</i>	Two 110 gallons and one 600 gallons capacity.		
<i>Description</i>	Also included in Part 70 Insignificant Activities.		

**4 IC Engine: Air Compressor # 4A**

<i>Device ID #</i>	<b>001221</b>	<i>Device Name</i>	<b>IC Engine: Air Compressor # 4A</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	48.00 Horsepower
<i>Manufacturer Model</i>	Waukesha	<i>Operator ID</i>	Air Compressor # 4A
<i>Part 70 Insig?</i>	Yes	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta	<i>District Rule Exemption:</i> 202.F.1.e. Compression ignition engines w/ bhp 50 or less	
<i>Device</i>	48 hp air compressor engine.		
<i>Description</i>			

**5 IC Engine: Air Compressor # 5A**

<i>Device ID #</i>	<b>001222</b>	<i>Device Name</i>	<b>IC Engine: Air Compressor # 5A</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	48.00 Horsepower
<i>Manufacturer Model</i>	Waukesha	<i>Operator ID</i>	Air Compressor # 5A
<i>Part 70 Insig?</i>	Yes	<i>Serial Number</i>	
<i>Location Note</i>	SoCalGas - La Goleta	<i>District Rule Exemption:</i> 202.F.1.e. Compression ignition engines w/ bhp 50 or less	
<i>Device</i>	48 hp air compressor engine.		
<i>Description</i>			

**6 Glycol/Oil Heat Exchanger**

<i>Device ID #</i>	<b>100891</b>	<i>Device Name</i>	<b>Glycol/Oil Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>	Brown Fin Tube	<i>Operator ID Serial Number</i>	E-304
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 202.L.1 Heat Exchangers	
<i>Location Note Device Description</i>	SoCalGas - La Goleta 2.5' tall by 20' long, single pass, one component unit.		

**7 Glycol Storage Tanks**

<i>Device ID #</i>	<b>100910</b>	<i>Device Name</i>	<b>Glycol Storage Tanks</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 201.A No Potential To Emit Air Contaminants	
<i>Location Note Device Description</i>	SoCalGas - La Goleta Two (2) glycol storage tanks and one glycol run tank. Also included in Part 70 Insignificant Activities.		

**8 Lube Oil Tanks**

<i>Device ID #</i>	<b>100912</b>	<i>Device Name</i>	<b>Lube Oil Tanks</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	5000.00 Gallons
<i>Manufacturer Model</i>		<i>Operator ID Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 202.V.3 Storage Of Lubricating Oils	
<i>Location Note Device Description</i>	SoCalGas - La Goleta 5000 gallons capacity each. Also included in Part 70 Insignificant Activities.		

**9 Degreaser Unit**

<i>Device ID #</i>	<b>100913</b>	<i>Device Name</i>	<b>Degreaser Unit</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>	JRI	<i>Operator ID</i>	
<i>Model</i>	TL 21	<i>Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 202.U.2.a. Degreasing Equipment W/Lqd Surf Area <929 Cm2	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Using non-ROC solvent. Also included in Part 70 Insignificant Activities.		

**10 Hot Water Heaters**

<i>Device ID #</i>	<b>100915</b>	<i>Device Name</i>	<b>Hot Water Heaters</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 201.A No Potential To Emit Air Contaminants	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Also included in Part 70 Insignificant Activities.		

**11 Air Conditioning System**

<i>Device ID #</i>	<b>100916</b>	<i>Device Name</i>	<b>Air Conditioning System</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer</i>		<i>Operator ID</i>	
<i>Model</i>		<i>Serial Number</i>	
<i>Part 70 Insig?</i>	Yes	<i>District Rule Exemption:</i> 201.A No Potential To Emit Air Contaminants	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	Also included in Part 70 Insignificant Activities.		

**12 Heat Exchanger**

<i>Device ID #</i>	<b>114270</b>	<i>Device Name</i>	<b>Heat Exchanger</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>		<i>Operator ID</i>	
<i>Part 70 Insig?</i>	No	<i>District Rule Exemption:</i> 202.L.1 Heat Exchangers	
<i>Location Note</i>	SoCalGas - La Goleta		
<i>Device Description</i>	16" diameter x 192" long		

**13 Hot Oil Heater #2**

<i>Device ID #</i>	<b>394789</b>	<i>Device Name</i>	<b>Hot Oil Heater #2</b>
<i>Rated Heat Input</i>	2.000 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer Model</i>		<i>Operator ID</i>	HOH #2
<i>Part 70 Insig?</i>	No	<i>District Rule Exemption:</i> 202.G.1 Combustion Equipment <= 2 MMBtu/hr	
<i>Location Note</i>	Gas-fired unit, operates only when Hot Oil Heater #1 is not operating		
<i>Device Description</i>	Exempt from permit per Rule 202.G.1, unit is not stacked with Hot Oil Heater #1. Certified to comply with Rule 360. Retrofit with a 2.000 MMBtu/hr Eclipse WX0200 Burner (S/N 1667857-1). Natural gas fired		

**E DE-PERMITTED EQUIPMENT**

**1 Continuous Bleed Devices**

<i>Device ID #</i>	<b>391977</b>	<i>Device Name</i>	<b>Continuous Bleed Devices</b>
<i>Rated Heat Input</i>		<i>Physical Size</i>	
<i>Manufacturer Model</i>		<i>Operator ID</i>	
<i>Depermitted</i>		<i>Serial Number</i>	
<i>Device</i>	3 devices	<i>Facility Transfer</i>	
<i>Description</i>			

**2 Hot Oil Heater #2**

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<i>Device ID #</i>	<b>107535</b>	<i>Device Name</i>	<b>Hot Oil Heater #2</b>
<i>Rated Heat Input</i>	2.000 MMBtu/Hour	<i>Physical Size</i>	
<i>Manufacturer</i>	American Heating Company	<i>Operator ID</i>	HOH #2
<i>Model</i>	AHE-212-2P	<i>Serial Number</i>	670-A04
<i>Depermitted</i>		<i>Facility Transfer</i>	
<i>Device</i>	Gas-fired unit. Operates only when HOH #1 is not operating.		
<i>Description</i>			

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## 10.6 Comments on Draft Permit/District Responses

1. SoCalGas would like the SBCAPCD to reconsider our request for the non-selective catalytic reduction (NSCR) catalyst break-in hours. As part of our routine maintenance, the catalyst needs time to break-in before operating during normal mode. Based on our review of the Tajiguas Resource Recovery Project SBCAPCD permit, the SBCAPCD granted a condition for an SCR break-in of 120 hours (see Attachment A for relevant excerpts of the permit). This is similar scenario to what SoCalGas is requesting for our catalyst.

*District Response: The District has reviewed the request and determined that Rule 333 does not provide an allowance for any excursions from the emission requirements due to a catalyst changeout, therefore the request cannot be approved as granting the request would violate Rule 333.*

*The Tajiguas Resource Recovery Project Cogen Engines are exempt from Rule 333 per the provisions of Rule 333.B.1 as they are fired on gas consisting of more than 75% landfill gas and therefore were granted an allowance for a 120-hour SCR break-in period on their spark ignited engines.*

2. Please remove the references to SoCalGas providing emission reduction credits (ERCs) to the Point Arguello Project in Sections 1.5, 4.2.1, 7.4 and 9.C.1.b(viii). SoCalGas no longer provides NOx ERCs to this project as the lease agreement was cancelled in 2020. Therefore, any mention of this project is outdated information (see Attachment B for the cancellation letter).

*District Response: The requested sections have been revised to maintain historical references and ongoing requirements for the engines.*

3. Please update the component leakpath information to be consistent with our 2020 CARB Oil and Gas Annual Submission. Specifically; revise Gas & Gas Light Liquid compressor seal components to 14 component leakpaths.

*District Response: The requested change has been made.*

4. For compliance purposes, please update, as necessary, the serial numbers for the catalysts.

*District Response: The requested changes have been made.*