

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



May 5, 2015

**Advice Letter 4789**

Ronald van der Leeden  
Director, Regulatory Affairs  
Southern California Gas  
555 W. Fifth Street, GT14D6  
Los Angeles, CA 90013-1011

**Subject: Revisions to Update the Biomethane Delivery Specifications in  
Rule No. 30 – Transportation of Customer-Owned Gas**

Dear Mr. Leeden:

Advice Letter 4789 is effective May 1, 2015.

Sincerely,

A handwritten signature in cursive script that reads "Edward Randolph".

Edward Randolph  
Director, Energy Division



**Ron van der Leeden**

Director

Regulatory Affairs

555 W. Fifth Street, GT14D6  
Los Angeles, CA 90013-1011

Tel: 213.244.2009

Fax: 213.244.4957

*RvanderLeeden@semprautilities.com*

April 1, 2015

Advice No. 4789

(U 904 G)

Public Utilities Commission of the State of California

**Subject: Revisions to Update the Biomethane Delivery Specifications in Rule No. 30 – Transportation of Customer-Owned Gas**

**Purpose**

Southern California Gas Company (SoCalGas) hereby submits for approval by the California Public Utilities Commission (Commission) revisions to its Rule No. 30, Transportation of Customer-Owned Gas, to update the Biomethane Delivery Specifications applicable throughout its service territory, as shown on Attachment A.

**Background**

On February 13, 2013, the Commission initiated Order Instituting Rulemaking (R.) 13-02-008 to implement certain provisions of Assembly Bill (AB) 1900. As required by AB 1900, on May 15, 2013, the California Air Resources Board (CARB) and the Office of Environmental Health Hazard Assessment (OEHHA) released their “Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Biomethane into the Common Carrier Pipeline” (CARB/OEHHA Report).<sup>1</sup> On August 13, 2013, at the request of the active parties, the evidentiary hearings were taken off calendar, and briefs were filed on September 5, 2013. The Proposed Decision of Commissioner Peterman was issued on December 12, 2013, and a Final Decision (D.14-01-034) was issued on January 22, 2014.

On February 18, 2014, in compliance with Ordering Paragraphs 4, 12, and 14 of D.14-01-034, SoCalGas filed Advice No. (AL) 4607 to: (1) incorporate the adopted constituents of concern, the concentration standards, and the monitoring, testing, reporting, and recordkeeping requirements into its tariffs; (2) prevent the injection of

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<sup>1</sup> Unless otherwise indicated, references to the CARB/OEHHA Report are to the revised report that incorporates the November 2014 errata.

biomethane that comes from a hazardous waste landfill; and (3) allow biomethane from other organic sources to be injected into the utility's gas pipeline, as long as the specifications for natural gas and the concentration standards that have been adopted for biomethane from wastewater treatment plants are met. Pursuant to Energy Division's direction, on October 14, 2014, SoCalGas filed AL 4607-A which replaced in its entirety AL 4607. AL 4607-A was approved on December 12, 2014 and effective October 14, 2014.

On November 4, 2014, CARB and OEHHA issued an errata to the May 15, 2013 CARB/OEHHA Report. The errata included certain corrections and clarifications related to the reports use of "Group 1" and "Group 2" compounds and collective cancer or non-cancer risk. In order to be consistent with the changes made in the errata, as well as to incorporate other changes to better mirror D.14-01-034 and the CARB/OEHHA Report, SoCalGas herein revises Section J (Biomethane Delivery Specification) of its Rule No. 30.

### **Requested Tariff Changes**

Section J of Tariff Rule No. 30 has been modified as follows:

1. Group 1 and Group 2 Constituents have been renamed Group 1 and Group 2 Compounds.
2. When discussing Health Protective Group 2 Compounds' potential cancer or non-cancer risk, the risk is described as "collective" instead of "total" or "cumulative."
3. The definitions of Group 1 Compound, Group 2 Compound, Cancer Risk, and Non-Cancer Risk have been moved from Section J.9, Biomethane Periodic Testing, to Section J.7, Cumulative Health Risks, in order to bring them closer to the top of Rule No. 30 so that they can be defined and included in additional areas of the Rule. This restructuring is consistent with CARB/OEHHA's clarification of its use of the term "Group 2 Compound" and when the collective cancer or non-cancer risk should be calculated.
4. The Biomethane Quality Specification Table in Section J.5 has been revised to clarify that the limits for hydrogen and ammonia are percent by volume.
5. The table in Section J.7.c has been revised to more closely match the table in the CARB/OEHHA's Report (see CARB/OEHHA Report at page 61).
6. Section J.8.c has been revised to incorporate the Group 2 Compound concept and, consistent with the CARB/OEHHA Report at page 66, include affirmatively when the biomethane may be injected.

7. Section J.8.d has been revised to include language related to Pipeline Protective Constituents that affirmatively states when the biomethane may be injected.
8. At Section J.9, where applicable, "Constituent" has been changed to "Compound" and "total" risk has been changed to "collective" risk to mirror the language used in the CARB/OEHHA Report.
9. Section J.9 has been renumbered since the original J.9.a, J.9.b, J.9.e.i, and J.9.e.ii (definitions of Group 1 and Group 2 Compounds and cancer and non-cancer risk) have been moved to Section J.7.
10. Sections J.10.b.i and J.10.b.ii have been revised to clarify that they are in reference to the Health Protective Group 2 Compounds' collective cancer or non-cancer risk.
11. Section J.10.b.iv and Note 3 in the "Collective Risk from Carcinogenic and non-Carcinogenic Constituents" Table have been removed because the revised CARB/OEHHA Report clarifies that, for Health Protective Group 2 Compounds, the lower and upper action level concepts apply to collective cancer and non-cancer risk.
12. Section J.10.c is revised to clarify that this section addresses the Health Protective Group 2 Compounds' collective cancer or non-cancer risk.
13. Section J.14 is revised to more closely mirror the language in D.14-01-034 (see D.14-01-034, mimeo., at 155).

This filing will not result in an increase or decrease in any rate or charge, conflict with any rate schedule or any rules, or cause the withdrawal of service.

### **Protest**

Anyone may protest this AL to the Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be made in writing and received within 20 days of the date this AL was filed with the Commission which is April 21, 2015. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

CPUC Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102

Copies of the protest should also be sent via e-mail to the attention of the Energy Division Tariff Unit ([EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)). A copy of the protest shall also be sent via both e-mail and facsimile to the address shown below on the same date it is mailed or delivered to the Commission.

Attn: Sid Newsom  
Tariff Manager – GT14D6  
555 West Fifth Street  
Los Angeles, CA 90013-1011  
Facsimile No. (213) 244-4957  
E-Mail: [snewsom@semprautilities.com](mailto:snewsom@semprautilities.com)

### **Effective Date**

SoCalGas believes that this filing is subject to Energy Division disposition, and should be classified as Tier 2 (effective after staff approval) pursuant to GO 96-B. SoCalGas respectfully requests that this filing be approved on May 1, 2015, which is thirty (30) calendar days after the date filed.

### **Notice**

A copy of this AL is being sent to SoCalGas' GO 96-B service list and the Commission's service list in R.13-02-008, Biomethane Rulemaking. Address change requests to the GO 96-B should be directed by electronic mail to [tariffs@socalgas.com](mailto:tariffs@socalgas.com) or call 213-244-3387. For changes to all other service lists, please contact the Commission's Process Office at 415-703-2021 or by electronic mail at [process\\_office@cpuc.ca.gov](mailto:process_office@cpuc.ca.gov).

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Ron van der Leeden  
Director - Regulatory Affairs

Attachments

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. **SOUTHERN CALIFORNIA GAS COMPANY (U 904G)**

Utility type:

ELC     GAS  
 PLC     HEAT     WATER

Contact Person: Sid Newsom

Phone #: (213) 244-2846

E-mail: SNewsom@semprautilities.com

### EXPLANATION OF UTILITY TYPE

ELC = Electric    GAS = Gas  
PLC = Pipeline    HEAT = Heat    WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 4789

Subject of AL: Revisions to Update the Biomethane Delivery Specifications in Rule No. 30 – Transportation of Customer-Owned Gas

Keywords (choose from CPUC listing): Transportation

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #: Not a decision but an Errata to a CARB/OEHHA Report

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL No

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: N/A

Does AL request confidential treatment? If so, provide explanation: No.

Resolution Required?  Yes  No                      Tier Designation:  1  2  3

Requested effective date: 5/1/15                      No. of tariff sheets: 9

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: Rule No. 30, TOCs

Service affected and changes proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: None

**Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:**

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Ave.,  
San Francisco, CA 94102  
[EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Southern California Gas Company  
Attention: Sid Newsom  
555 West 5<sup>th</sup> Street, GT14D6  
Los Angeles, CA 90013-1011  
[SNewsom@semprautilities.com](mailto:SNewsom@semprautilities.com)  
[tariffs@socalgas.com](mailto:tariffs@socalgas.com)

<sup>1</sup> Discuss in AL if more space is needed.

ATTACHMENT A  
Advice No. 4789

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 51381-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 20	Original 50810-G
Revised 51382-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 21	Original 50811-G
Revised 51383-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 22	Original 50812-G
Revised 51384-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 23	Original 50813-G
Revised 51385-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 24	Original 50814-G
Revised 51386-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 25	Original 50815-G
Revised 51387-G	Rule No. 30, TRANSPORTATION OF CUSTOMER-OWNED GAS, Sheet 26	Revised 50816-G
Revised 51388-G	TABLE OF CONTENTS	Revised 51180-G
Revised 51389-G	TABLE OF CONTENTS	Revised 51377-G

Rule No. 30

Sheet 20

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

5. Biomethane Quality Specifications: (Continued)

Constituent	Trigger Level mg/m <sup>3</sup> (ppm <sub>v</sub> ) <sup>i</sup>	Lower Action Level mg/m <sup>3</sup> (ppm <sub>v</sub> )	Upper Action Level mg/m <sup>3</sup> (ppm <sub>v</sub> )
<i>Health Protective Constituent Levels</i>			
<u>Carcinogenic Constituents</u>			
Arsenic	0.019 (0.006)	0.19 (0.06)	0.48 (0.15)
p-Dichlorobenzenes	5.7 (0.95)	57 (9.5)	140 (24)
Ethylbenzene	26 (6.0)	260 (60)	650 (150)
n-Nitroso-di-n-propylamine	0.033 (0.006)	0.33 (0.06)	0.81 (0.15)
Vinyl Chloride	0.84 (0.33)	8.4 (3.3)	21 (8.3)
<u>Non-Carcinogenic Constituents</u>			
Antimony	0.60 (0.12)	6.0 (1.2)	30 (6.1)
Copper	0.060 (0.02)	0.6 (0.23)	3 (1.2)
Hydrogen Sulfide	30 (22)	300 (216)	1500 (1080)
Lead	0.075 (0.009)	0.75 (0.09)	3.8 (0.44)
Methacrolein	1.1 (0.37)	11 (3.7)	53 (18)
Toluene	904 (240)	9000 (2400)	45000 (12000)
Alkyl Thiols (mercaptans)	(12)	(120)	(610)
<i>Pipeline Integrity Protective Constituent Levels<sup>ii</sup></i>			
Siloxanes	0.01 mg Si/m <sup>3</sup>	0.1 mg Si/m <sup>3</sup>	-
Ammonia	0.001 vol%	-	-
Hydrogen	0.1 vol%	-	-
Mercury	0.08 mg/m <sup>3</sup>	-	-
Biologicals	4 x 10 <sup>4</sup> /scf (qPCR per APB, SRB, IOB <sup>iii</sup> group) and commercially free of bacteria of >0.2 microns	-	-

Notes: i) The first number in this table are in milligrams per cubic meter of air (mg/m<sup>3</sup>), while the second number ( ) is in parts per million by volume (ppm<sub>v</sub>). ii) The Pipeline Integrity Protective Constituent Lower and Upper Action Limits not provided above will be established in the Commission's next AB1900 update proceeding. Until that time, Biomethane supplies that contain Pipeline Integrity Protective Constituents exceeding the Trigger Level, but lacking a Lower or Upper Action Level, will be analyzed and addressed on a case-by-case basis based on the biomethane's potential impact on pipeline system integrity. iii) APB – Acid producing Bacteria; SRB – Sulfate-reducing Bacteria; IOB – Iron-oxidizing Bacteria

(Continued)

(TO BE INSERTED BY UTILITY)

ADVICE LETTER NO. 4789  
DECISION NO.

ISSUED BY

**Lee Schavrien**  
Senior Vice President

(TO BE INSERTED BY CAL. PUC)

DATE FILED Apr 1, 2015  
EFFECTIVE May 1, 2015

RESOLUTION NO. \_\_\_\_\_



TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

6. Biomethane Constituent Testing shall be based on the biomethane source:

- a. Biomethane from landfills shall be tested for all Health Protective Constituents and the Pipeline Integrity Protective Constituents.
- b. Biomethane from dairies shall be tested for Ethylbenzene, Hydrogen Sulfide, n-Nitroso-di-n-propylamine, Mercaptans, Toluene, and the Pipeline Integrity Protective Constituents.
- c. Other organic waste sources, including biomethane from publicly owned treatment works (i.e., water treatment and sewage treatment plants) shall be tested for p-Dichlorobenzene, Ethylbenzene, Hydrogen Sulfide, Mercaptans, Toluene, Vinyl Chloride, and the Pipeline Integrity Protective Constituents.

7. Collective Health Risk

- a. Group 1 Compounds are Constituents with a concentration below the test detection level or below the Trigger Level.
- b. Group 2 Compounds are Constituents with a concentration at or above the Trigger Level.
- c. For Health Protective Group 2 Compounds, the collective cancer and non-cancer risk from Carcinogenic and Non-carcinogenic Constituents must be calculated by summing the Group 2 Compounds' risk.

- i. Cancer Risk: The potential cancer for Group 2 compounds can be estimated by summing the individual potential cancer risk for each carcinogenic constituent of concern. Specifically, the cancer risk can be calculated using the ratio of the concentration of the constituent in the biomethane to the health protective ("trigger") concentration value corresponding to one in a million cancer risk for that specific constituent and then summing the risk for all the Group 2 constituents. (For reference, see CARB/OEHHA Report submitted in R.13-02-008, p. 67.)

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**Lee Schavrien**  
 Senior Vice President

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 EFFECTIVE May 1, 2015  
 RESOLUTION NO. \_\_\_\_\_

Rule No. 30

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

7. Collective Health Risk (Continued)

c. (Continued)

ii. Non-Cancer Risk: The non-cancer risk can be calculated using the ratio of the concentration of the constituent in biomethane to the health protective concentration value corresponding to a hazard quotient of 0.1 for that specific non-carcinogenic constituent, then multiplying the ratio by 0.1, and then summing the non-cancer chronic risk for these Group 2 Compounds. (For reference, see CARB/OEHHA Report submitted in R.13-02-008 p. 67.)

**Collective from Carcinogenic and non-Carcinogenic Constituents**

<b>Risk Management Levels</b>	<b>Potential Risk from Carcinogenic Constituents (chances in a million)</b>	<b>Hazard Index from Non-Carcinogenic Constituents</b>	<b>Action</b>
Trigger Level <sup>11</sup>	≥ 1.0	≥ 0.1	Periodic Testing Required
Lower Action Level <sup>2</sup>	≥ 10.0	≥ 1.0	Supply shut-in after three exceedances in 12-month period in which deliveries occur
Upper Action Level	≥ 25.0	≥ 5.0	Immediate supply shut-in

1. For any Health Protective Constituent.
2. Sum of the Health Protective Constituents exceeding the trigger level.

8. Biomethane Pre-Interconnection Testing:

- a. Prior to the injection of biomethane, the Biomethane Interconnector shall conduct two tests over a two- to four-week period for the constituents identified for that biomethane source (see Section J.6).

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(TO BE INSERTED BY UTILITY)  
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TRANSPORTATION OF CUSTOMER-OWNED GAS

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J. Biomethane Delivery Specifications (Continued)

8. Biomethane Pre-Interconnection Testing: (Continued)

b. Pre-interconnection testing will be performed by the Biomethane Interconnect using independent certified third party laboratories (Environmental Laboratory Accreditation Program (ELAP) certified, where applicable). The Utility shall be notified of the biomethane sampling and tests and have the option to observe the samples being taken. Test results will be shared with the Utility within five calendar days of the test results being received by the Biomethane Interconnector.

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c. During pre-injection testing, the Biomethane's collective potential cancer risk and non-cancer risk is calculated by summing the individual risk for each Health Protective Group 2 Compound. If the collective potential cancer risk or non-cancer risk is at or above the Lower Action Level (the cancer risk Lower Action Level is > 10 in a million and the non-cancer risk Lower Action Level is a Hazard Index of >1), the biomethane cannot be accepted or transported by the Utility's pipeline system. The Biomethane Interconnector shall make necessary modifications to lower the collective potential cancer risk or non-cancer risk below the Lower Action Level and restart pre-injection testing. If the Health Protective Constituents are found to be below the Trigger Level or the collective cancer or non-cancer risk from the Health Protective Group 2 Compounds is below the Lower Action Level in both pre-injection tests, then the biomethane may be injected subject to compliance with the periodic testing requirements specified below.

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d. If during the pre-injection testing, any Pipeline Integrity Protective Constituents are found to be above the Lower Action Level, if applicable, the biomethane cannot be accepted or transported by the Utility's pipeline system. The Biomethane Interconnector shall make necessary modifications to lower the Pipeline Integrity Protective Constituents below the Lower Action Level and restart pre-injection testing. If the Pipeline Integrity Protective Constituents are found to be below the Trigger Level in both pre-injection tests, then the biomethane may be injected subject to compliance with the periodic testing requirements specified below.

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9. Biomethane Periodic Testing:

a. Group 1 Constituent Testing

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i. A Group 1 Compound shall be tested once every 12-month period in which deliveries occur. Thereafter, if the Group 1 Compound is found below the Trigger Level during two consecutive annual periodic tests, the Group 1 Compound may be tested once every two year-period in which deliveries occur.

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ii. A Group 1 Compound will become a Group 2 Compound if testing indicates a concentration at or above the Trigger Level.

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(TO BE INSERTED BY UTILITY)  
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 Senior Vice President

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

9. Biomethane Periodic Testing: (Continued)

b. Group 2 Compound Testing

- i. A Group 2 Compound shall be tested quarterly (at least once every three- month period in which deliveries occur).
- ii. A Group 2 Compound will become a Group 1 Compound if testing indicates a concentration below the Trigger Level during four consecutive tests.

c. Collective Risk from Carcinogenic and Non-carcinogenic Constituents:

- i. If four consecutive quarterly tests demonstrate that the Health Protective Group 2 Compound's collective cancer and non-cancer risk is below the Lower Action Level, monitoring can be reduced to once every 12-month period in which deliveries occur.
- ii. If annual testing demonstrates that the Health Protective Group 2 Compound's collective cancer or non-cancer risk is at or above the Lower Action Level, then testing will revert to quarterly.

10. Biomethane Shut-Off and Restart Procedures: The Biomethane Interconnector may be shut-off when the following occurs:

- a. The CPUC determines that a change in the biogas source at the facility or the upgrading equipment will potentially increase the level of any constituent over the previously measured baseline levels.
- b. Testing indicates constituents are exceeding allowable concentration levels:
  - i. The collective cancer or non-cancer risk from Health Protective Group 2 Compounds is found at or above the Lower Action Level three times in a 12-month period in which deliveries occur.
  - ii. The collective cancer or non-cancer risk from Health Protective Group 2 Compounds is found at or above the Upper Action Level.
  - iii. If applicable, a Pipeline Integrity Protective Constituent is found at or above the Lower Action Level three times in a 12-month period in which deliveries occur.

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

10. Biomethane Shut-Off and Restart Procedures (Continued)

b. (Continued)

iv. The biomethane contains constituents at concentrations which prevent or restrict the normal marketing of biomethane, are at levels that are injurious to pipeline facilities, or are at levels that present a health and/or safety hazard to Utility employees and/or the general public.

c. In order to restart injection after a Biomethane Interconnector has been shut-off, the Biomethane Interconnector shall test the biomethane using independent certified third party laboratories (ELAP certified where applicable). Deliveries can then resume, subject to the periodic testing requirements in Section J.9, if the test indicates: (1) the biomethane complies with the gas quality specifications contained in Section I of this Rule; (2) the collective cancer and non-cancer risk of Health Protective Group 2 Compounds is below the Lower Action Level; and, if applicable, (3) the Pipeline Integrity Protective Constituents are below the Lower Action Level. Thereafter, constituents shall be reevaluated by the Utility for eligibility for less frequent testing.

11. Testing Procedures: The Utility shall collect samples at the receipt point utility meter. The Biomethane Interconnector shall collect samples upstream of the utility meter. Samples will be analyzed by independent certified third party laboratories (ELAP certified where applicable). Testing for Health Protective Constituents shall be by the methods specified in Table V-4 of CARB/OEHHA Report submitted in R.13-02-008 and adopted in D.14-01-034. Testing for Pipeline Integrity Protective Constituents shall be by the methods approved in D.14-01-034. Retesting shall be allowed to verify and validate the results. The cost of retesting shall be borne by the entity requesting the retest.

12. Continuous Monitoring of Upgrading Process Integrity: Absent an agreement otherwise, the Biomethane Interconnector's compliance with the Utility's continuously monitored Section I gas quality specifications shall be used as an indicator that the upgrading system is effectively conditioning and upgrading the biomethane. If the indicator(s) used to continuously monitor biomethane constituent levels indicates the biomethane has not been sufficiently conditioned and upgraded, the Utility may accelerate the biomethane periodic testing schedule and initiate testing. Accelerated periodic testing shall count toward the recommended periodic testing requirements described in Section J.9.

13. Recordkeeping and Reporting Requirements will be as prescribed in Commission D.14-01-034 and as specified in the CARB/OEHHA Report submitted in R.13-02-008.

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

14. Prohibition of Biomethane from Hazardous Waste Landfills: Hazardous waste landfills ("Hazardous Waste Landfills") include all contiguous land and structures, and other appurtenances and improvements, on the land used for the treatment, transfer, storage, resource recovery, disposal, or recycling of hazardous waste. The facility may consist of one or more treatment, transfer, storage, resource recovery, disposal, or recycling hazardous waste management units, or combinations of these units. Biomethane from Hazardous Waste Landfills, including landfills permitted by the Department of Toxic Substances Control, will not be purchased, accepted or transported. Before a Biomethane Interconnector can interconnect with the Utility's system, the Biomethane Interconnector must demonstrate and certify to the Utility's satisfaction that the biogas was not collected from a Hazardous Waste Landfill.
15. The biomethane rules in this section are intended to implement D.14-01-034, including rules regarding constituent concentration standards, monitoring and testing requirements, and reporting and recordkeeping requirements.

K. Termination or Modification

1. If the customer breaches any terms and conditions of service of the customer's service agreement or the applicable tariff schedules and does not correct the situation within thirty (30) days of notice, the Utility shall have the right to cease service and immediately terminate the customer's applicable service agreement.
2. If the contract is terminated, either party has the right to collect any quantities of gas or money due them for transportation service provided prior to the termination.

L. Regulatory Requirements

1. Any gas transported by the Utility for the customer which was first transported outside the State of California shall have first been authorized under Federal Energy Regulatory Commission (FERC) regulations, as amended. Both parties recognize that such regulations only apply to pipelines subject to FERC jurisdiction, and do not apply to the Utility. The customer shall not take any action which would subject the Utility to the jurisdiction of the FERC, the Economic Regulatory Administration or any succeeding agency. Any such action shall be cause for immediate termination of the service arrangement between the customer and the Utility.
2. Transportation service shall not begin until both parties have received and accepted any and all regulatory authorizations necessary for such service.

(Continued)

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**ATTACHMENT B**

**Advice No. 4789**

**Revisions to Rule No. 30  
Redlined Format**

Rule No. 30

Sheet 20

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

5. Biomethane Quality Specifications: (Continued)

Constituent	Trigger Level mg/m <sup>3</sup> (ppm <sub>v</sub> ) <sup>i</sup>	Lower Action Level mg/m <sup>3</sup> (ppm <sub>v</sub> )	Upper Action Level mg/m <sup>3</sup> (ppm <sub>v</sub> )
<i>Health Protective Constituent Levels</i>			
<u>Carcinogenic Constituents</u>			
Arsenic	0.019 (0.006)	0.19 (0.06)	0.48 (0.15)
p-Dichlorobenzenes	5.7 (0.95)	57 (9.5)	140 (24)
Ethylbenzene	26 (6.0)	260 (60)	650 (150)
n-Nitroso-di-n-propylamine	0.033 (0.006)	0.33 (0.06)	0.81 (0.15)
Vinyl Chloride	0.84 (0.33)	8.4 (3.3)	21 (8.3)
<u>Non-Carcinogenic Constituents</u>			
Antimony	0.60 (0.12)	6.0 (1.2)	30 (6.1)
Copper	0.060 (0.02)	0.6 (0.23)	3 (1.2)
Hydrogen Sulfide	30 (22)	300 (216)	1500 (1080)
Lead	0.075 (0.009)	0.75 (0.09)	3.8 (0.44)
Methacrolein	1.1 (0.37)	11 (3.7)	53 (18)
Toluene	904 (240)	9000 (2400)	45000 (12000)
Alkyl Thiols (mercaptans)	(12)	(120)	(610)
<i>Pipeline Integrity Protective Constituent Levels<sup>ii</sup></i>			
Siloxanes	0.01 mg Si/m <sup>3</sup>	0.1 mg Si/m <sup>3</sup>	-
Ammonia	0.001 vol%	-	-
Hydrogen	0.1 vol%	-	-
Mercury	0.08 mg/m <sup>3</sup>	-	-
Biologicals	4 x 10 <sup>4</sup> /scf (qPCR per APB, SRB, IOB <sup>iii</sup> group) and commercially free of bacteria of >0.2 microns	-	-

Notes: i) The first number in this table are in milligrams per cubic meter of air (mg/m<sup>3</sup>), while the second number ( ) is in parts per million by volume (ppm<sub>v</sub>).

ii) The Pipeline Integrity Protective Constituent Lower and Upper Action Limits not provided above will be established in the Commission's next AB1900 update proceeding. Until that time, Biomethane supplies that contain Pipeline Integrity Protective Constituents exceeding the Trigger Level, but lacking a Lower or Upper Action Level, will be analyzed and addressed on a case-by-case basis based on the biomethane's potential impact on pipeline system integrity.

iii) APB – Acid producing Bacteria; SRB – Sulfate-reducing Bacteria; IOB – Iron-oxidizing Bacteria.

(Continued)

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Rule No. 30

Sheet 21

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

6. Biomethane Constituent Testing shall be based on the biomethane source:

- a. Biomethane from landfills shall be tested for all Health Protective Constituents and the Pipeline Integrity Protective Constituents.
- b. Biomethane from dairies shall be tested for Ethylbenzene, Hydrogen Sulfide, n-Nitroso-di-n-propylamine, Mercaptans, Toluene, and the Pipeline Integrity Protective Constituents.
- c. Other organic waste sources, including biomethane from publicly owned treatment works (i.e., water treatment and sewage treatment plants) shall be tested for p-Dichlorobenzene, Ethylbenzene, Hydrogen Sulfide, Mercaptans, Toluene, Vinyl Chloride, and the Pipeline Integrity Protective Constituents.

7. Cumulative Collective Health Risk

- a. Group 1 Compounds are Constituents with a concentration below the test detection level or below the Trigger Level.
- b. Group 2 Compounds are Constituents with a concentration at or above the Trigger Level.
- c. For health protective Group 2 Compounds, the collective cancer and non-cancer risk from Carcinogenic and Non-carcinogenic Constituents must be calculated by summing the Group 2 Compounds' risk.
  - i. Cancer Risk: The potential cancer risk for Group 2 Compounds can be estimated by summing the individual potential cancer risk for each carcinogenic constituent of concern. Specifically, the cancer risk can be calculated using the ratio of the concentration of the constituent in the biomethane to the health protective ("trigger") concentration value corresponding to one in a million cancer risk for that specific constituent and then summing the risk for all the Group 2 Compounds. (For reference, see CARB/OEHHA Report submitted in R.13-02-008, p. 67.)
  - ii. Non-Cancer Risk: The non-cancer risk can be calculated using the ratio of the concentration of the constituent in biomethane to the health protective concentration value corresponding to a hazard quotient of 0.1 for that specific non-carcinogenic constituent, then multiplying the ratio by 0.1, and then summing the non-cancer chronic risk for these Group 2 Compounds. (For reference, see CARB/OEHHA Report submitted in R.13-02-008 p. 67.)

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Sheet 21

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

<b>Total Collective Risk from Carcinogenic and non-Carcinogenic Constituents</b>			
<b>Risk Management Levels</b>	<b>Potential Risk from Carcinogenic Constituents (chances in a million)</b>	<b>Hazard Index from Non-Carcinogenic Constituents</b>	<b>Action</b>
Trigger Level <sup>1</sup>	≥ 1.0	≥ 0.1	Periodic Testing Required
Lower Action Level <sup>2</sup>	≥ 10.0	≥ 1.0	Supply shut-in after three exceedances in 12-month period in which deliveries occur
Upper Action Level <sup>23</sup>	≥ 25.0	≥ 5.0	Immediate supply shut-in
1. For any Health Protective Constituent. 2. Sum of the Health Protective Constituents exceeding the trigger level. <del>3. Any individual Health Protective Constituent or the sum of any Health Protective Constituents exceeding the trigger level.</del>			

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Rule No. 30

Sheet 23

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

J. Biomethane Delivery Specifications (Continued)

9. Biomethane Periodic Testing: ~~(Continued)~~

ea. Group 1 ~~Constituent Compound~~ Testing

- i. A Group 1 ~~Constituent Compound~~ shall be tested once every 12-month period in which deliveries occur. Thereafter, if the Group 1 ~~Constituent Compound~~ is found below the Trigger Level during two consecutive annual periodic tests, the Group 1 ~~Constituent Compound~~ may be tested once every two year-period in which deliveries occur.
- ii. A Group 1 ~~Constituent Compound~~ will become a Group 2 ~~Constituent Compound~~ if testing indicates a concentration at or above the Trigger Level.

b. Group 2 ~~Constituent Compound~~ Testing:

- i. A Group 2 ~~Constituent Compound~~ shall be tested quarterly (at least once every three-month period in which deliveries occur).
- ii. A Group 2 ~~Constituent Compound~~ will become a Group 1 ~~Constituent Compound~~ if testing indicates a concentration below the Trigger Level during four consecutive tests.

c. Collective ~~Total~~ Risk from Carcinogenic and Non-carcinogenic Constituents:

- i. If four consecutive quarterly tests demonstrate that the health protective Group 2 ~~Constituent Compound~~'s collective cancer and non-cancer risk is below the Lower Action Level, monitoring can be reduced to once every 12-month period in which deliveries occur.
- ii. If annual testing demonstrates that the health protective Group 2 ~~Constituent Compound~~'s collective cancer or non-cancer risk is at or above the Lower Action Level, then testing will revert to quarterly.
- ~~i. The total risk from Carcinogenic and Non-Carcinogenic Constituents shall be calculated for all Health Protective Group 2 Constituents.~~
  - ~~a. Cancer Risk: The potential cancer for Group 2 compounds can be estimated by summing the individual potential cancer risk for each carcinogenic constituent of concern. Specifically, the cancer risk can be calculated using the ratio of the concentration of the constituent in the biomethane to the health protective ("trigger") concentration value corresponding to one in a million cancer risk for that specific constituent and then summing the risk for all the Group 2 constituents. (For reference, see CARB/OEHHA Report submitted in R.13-02-008, p. 67.)~~
  - ~~b. Non-Cancer Risk: The non-cancer risk can be calculated using the ratio of the concentration of the constituent in biomethane to the health protective~~

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Sheet 23

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

~~concentration value corresponding to a hazard quotient of 0.1 for that specific noncarcinogenic constituent, then multiplying the ratio by 0.1, and then summing the noncancer chronic risk for these Group 2 constituents. (For reference, see CARB/OEHHA Report submitted in R.13-02-008 p. 67.)~~

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