### PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



January 16, 2018

Advice Letter 1049-G 1049-G-A

Justin Lee Brown Vice-President/Regulatory Affairs Southwest Gas Corporation PO Box 98510 Las Vegas, NV 89193-8510

SUBJECT: Modify Rule No. 22 - Biomenthane Gas

Dear Mr. Brown:

Advice Letter 1049-G and supplemental 1049-G-A are effective as of October 8, 2017.

Sincerely,

Edward Randolph

Director, Energy Division

Edward Randoft



December 5, 2017

ATTN: Tariff Unit, Energy Division

California Public Utilities Commission 505 Van Ness Avenue, 4<sup>th</sup> Floor San Francisco, CA 94102

Subject:

Southwest Gas Corporation (U 905 G)

Advice Letter No. 1049-A

Enclosed herewith is an original and one (1) copy of Southwest Gas Corporation's Advice Letter No. 1049-A, together with California Gas Tariff Sheet No. 279.

Sincerely,

∀alerie J. Ontiveroz

Regulatory Manager/California

VJO:dm

**Enclosure** 



Advice Letter No. 1049-A

December 5, 2017

# PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Southwest Gas Corporation (Southwest Gas or Company) (U 905 G) tenders herewith for filing the following tariff sheets:

Cal. P.U.C.	California Gas Tariff	Canceling Cal. P.U.C.
Sheet No.	Title of Sheet	Sheet No.
3rd Revised <sup>1</sup> Sheet No. 279	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 279

### Purpose

The purpose of this filing is to supplement in part Advice Letter No. 1049, which was filed on September 8, 2017, to modify Rule No 22 – *Biomethane Gas* in Southwest Gas' California Gas Tariff, in accordance with Decision (D.) 16-11-008. D.16-11-008 revised General Order (GO) 58-A – *Standards for Gas Service in the State of California* to comply with D.14-01-034. This supplemental filing addresses various revisions to Advice Letter No. 1049 pursuant to the directives of Energy Division Staff. Specifically, this filing revises:

- 1. "Notice" and "Service" sections on Page 3;
- 2. Advice Letter Summary Sheet; and
- 3. Total Sulfur gas specification contained on Sheet No. 279.

The attached modified pages (Attachment 1) replace the corresponding original pages in Advice Letter No. 1049, while all other aspects of the original Advice Letter remain unchanged.<sup>2</sup> Therefore, Southwest Gas respectfully requests that this partial supplemental filing be approved along with Advice Letter No. 1049.

#### **Effective Date**

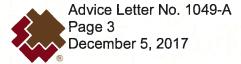
Southwest Gas respectfully requests that this Advice Letter be made effective October 8, 2017, which is the originally requested effective date for Advice Letter No. 1049.

#### **Protest**

Anyone may protest this Advice Letter to the Commission. The protest must state the grounds upon which it is based with specificity. The protest must be sent no later than 20 days after the date of this Advice Letter filing and shall be sent by letter via U.S. Mail, facsimile, or electronically mailed. The address for mailing or delivering a protest to the Commission is:

<sup>2</sup> A copy of Advice Letter No. 1049 is included as Attachment 2.

<sup>&</sup>lt;sup>1</sup> 2<sup>nd</sup> Revised Sheet No. 279 was submitted in Advice Letter No. 1049 and will not be issued.



# Protest (continued)

ATTN: Tariff Unit **Energy Division** California Public Utilities Commission 505 Van Ness Avenue, 4th Floor San Francisco, CA 94102 Email: edtariffunit@cpuc.ca.gov

Facsimile: 415-703-2200

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004, at the same address as above and mailed, emailed or faxed to:

Mr. Justin Lee Brown Vice President/Regulation & Public Affairs Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510

Email: justin.brown@swgas.com Facsimile: 702-364-3452

#### **Notice**

In accordance with GO 96-B, General Rule 4, a copy of this Advice Letter is being sent either electronically or via overnight express mail delivery to parties shown on the attached distribution list. A copy of the Advice Letter is also being served to the parties on the service list in R.16-07-006 (Attachment 3). Address changes to the GO 96-B distribution list should be directed to Southwest Gas at email address RRA@swgas.com. For changes to the service list in R.16-07-006, please contact the Commission's Process Office at (415) 703-2021 or at Process Office@cpuc.ca.gov. Southwest Gas Advice Letter filings may also be accessed electronically at: https://www.swgas.com/en/california-rates-and-regulation.

Communications regarding this filing should be directed to:

Valerie J. Ontiveroz Regulatory Manager/California Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510

Telephone: 702-876-7323

E-mail: valerie.ontiveroz@swgas.com

Respectfully submitted,

SOUTHWEST GAS CORPORATION

Justin Lee Brown

By:

# **Distribution List**

## Advice Letter No. 1049-A

In conformance with GO 96-B, General Rule 4.3

The following individual has been served by regular, first-class mail:

Elizabeth Echols, Director
Office of Ratepayer Advocates
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94105

The following individuals or entities have been served by electronic mail:

Pacific Gas & Electric Company PGETariffs@pge.com

Southern California Gas Company ROrtiz@SempraUtilities.com

San Diego Gas & Electric Company SDG&ETariffs@SempraUtilities.com

Belinda Gatti
Energy Division
California Public Utilities Commission
belinda.gatti@cpuc.ca.gov

Robert M. Pocta
Office of Ratepayer Advocates
California Public Utilities Commission
rmp@cpuc.ca.gov

Nathaniel Skinner
Office of Ratepayer Advocates
California Public Utilities Commission
nws@cpuc.ca.gov

Pearlie Sabino
Office of Ratepayer Advocates
California Public Utilities Commission
pzs@cpuc.ca.gov

# 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. South	nwest Gas Corporat	ion (U 905 G)
Utility type:	Contact Person: Va	lerie J. Ontiveroz
□ ELC ■ GAS	Phone #: (702) 876-	<u>-7323</u>
□ PLC □ HEAT □ WATER	E-mail: valerie.onti	veroz@swgas.com
EXPLANATION OF UTILIT ELC = Electric GAS = Gas PLC = Pipeline HEAT = Heat	Y TYPE WATER = Water	(Date Filed/ Received Stamp by CPUC)
Advice Letter (AL) #: <u>1049-A</u>	•	<del></del>
Subject of AL: Supplement – Modify R	ule No. 22 – Biomet	hane Gas.
Keywords (choose from CPUC listing): I	Rule	
AL filing type: ☐ Monthly ☐ Quarterly ☐	∃ Annual ■ One-Tim	e □ Other
If AL filed in compliance with a Commiss	sion order, indicate re	elevant Decision/Resolution #: D.16-11-008
Does AL replace a withdrawn or rejecte	d AL? If so, identify th	ne prior AL <u>No</u>
Summarize differences between the AL	and the prior withdra	wn or rejected AL¹: <b>Not applicable</b>
Resolution Required? ☐ Yes ■ No		
Requested effective date: October 8, 2	<u>017</u>	No. of tariff sheets: 1
Estimated system annual revenue effec	t: (%): Not applicabl	l <u>e</u>
Estimated system average rate effect (%	%): Not applicable	
When rates are affected by AL, include (residential, small commercial, large C/I		wing average rate effects on customer classes ).
Tariff schedules affected: Rule No. 22		
Service affected and changes proposed		
Pending advice letters that revise the sa	ime tariff sheets: Not	<u>applicable</u>
Protests and all other correspondence runless otherwise authorized by the Com		due no later than 20 days after the date of this filing, e sent to:
CPUC, Energy Division Attention: Tariff Unit OUT OF TAIL OF THE TOTAL		

<sup>&</sup>lt;sup>3</sup> Discuss in AL if more space is needed.

# ADVICE LETTER NO. 1049-A ATTACHMENT 1

Advice Letter No. 1049 Page 3 September 8, 2017

### Protest (continued)

days after the date of this Advice Letter filing and shall be sent by letter via U.S. Mail, facsimile, or electronically mailed. The address for mailing or delivering a protest to the Commission is:

ATTN: Tariff Unit
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94102
E-mail: edtariffunit@cpuc.ca.gov

Facsimile: 415-703-2200

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004, at the same address as above and mailed or faxed to:

Mr. Justin Lee Brown Vice President/Regulation & Public Affairs Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510 Facsimile: 702-364-3452

### **Notice**

In accordance with GO 96-B, General Rule 4, a copy of this Advice Letter is being sent either electronically or via overnight express mail delivery to parties shown on the attached distribution list. A copy of the Advice Letter is also being served to the parties on the service list in R.16-07-006. Address changes to the GO 96-B distribution list should be directed to Southwest Gas at email address <a href="RRA@swgas.com">RRA@swgas.com</a>. For changes to the service list in R.16-07-006, please contact the Commission's Process Office at (415) 703-2021 or at <a href="Process Office@cpuc.ca.gov">Process Office@cpuc.ca.gov</a>. Southwest Gas Advice Letter filings may also be accessed electronically at: <a href="https://www.swgas.com/en/california-rates-and-regulation">https://www.swgas.com/en/california-rates-and-regulation</a>.

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# CALIFORNIA PUBLIC UTILITIES COMMISSION

# ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLE	TED BY UTILITY (A	ttach additional pages as needed)
Company name/CPUC Utility No. South	west Gas Corporat	ion (U 905 G)
Utility type:	Contact Person: Va	llerie J. Ontiveroz
□ ELC ■ GAS	Phone #: <u>(702)</u> <u>876</u> -	<u>-7323</u>
□ PLC □ HEAT □ WATER	E-mail: <u>valerie.onti</u>	iveroz@swgas.com
EXPLANATION OF UTILITY ELC = Electric GAS = Gas PLC = Pipeline HEAT = Heat	Y TYPE WATER = Water	(Date Filed/ Received Stamp by CPUC)
Advice Letter (AL) #: 1049		
Subject of AL: Modify Rule No. 22 - Bi	omethane Gas.	
Keywords (choose from CPUC listing): F	Rule	
AL filing type: ☐ Monthly ☐ Quarterly ☐	] Annual ■ One-Tim	e 🗆 Other
If AL filed in compliance with a Commiss	sion order, indicate re	elevant Decision/Resolution #: D.16-11-008
Does AL replace a withdrawn or rejected	d AL? If so, identify th	ne prior AL <u>No</u>
Summarize differences between the AL	and the prior withdra	wn or rejected AL¹: <b>Not applicable</b>
Resolution Required? ☐ Yes ■ No		
Requested effective date: October 8, 20	<u>)17</u>	No. of tariff sheets: 5
Estimated system annual revenue effect	:: (%): Not applicabl	<u>le</u>
Estimated system average rate effect (%		
(residential, small commercial, large C/l,	attachment in AL sho agricultural, lighting)	wing average rate effects on customer classes ).
Tariff schedules affected: Rule No. 22		
Service affected and changes proposed		
Pending advice letters that revise the sai		
Protests and all other correspondence re unless otherwise authorized by the Com	garding this AL are omission, and shall be	due no later than 20 days after the date of this filing, e sent to:
CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Ave. San Francisco, CA 94102 E-mail: edtariffunit@cpuc.ca.gov	\ \$ F L E	Mr. Justin Lee Brown, Vice-President/Regulation & Public Affairs Southwest Gas Corporation P. O. Box 98510 Las Vegas, NV 89193-8510 E-mail: justin.brown@swgas.com

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

 Canceling
 3rd Revised
 Cal. P.U.C. Sheet No.
 279

 Canceling
 1st Revised
 Cal. P.U.C. Sheet No.
 279

### **RULE NO. 22**

# BIOMETHANE GAS (Continued)

# B. <u>BIOMETHANE GAS SPECIFICATIONS</u> (Continued)

- g. Total Sulfur: Biomethane Gas shall not contain more than 5 grains of total sulfur compounds, measured as sulfur, per 100 standard cubic feet or 85 ppm by volume of total sulfur.
- h. Liquids: Biomethane Gas shall contain no liquids at, or immediately downstream of the receipt point(s).
- i. Hydrocarbon Dew Point for Biomethane Gas is not to exceed 20 degrees Fahrenheit.
- j. Water Content: Biomethane Gas received into the Company's system shall have a water content of less than 7 pounds per million standard cubic feet.
- 3. Biomethane Gas must not contain any hazardous substances at concentration levels which would prevent or unduly impact the merchantability of Biomethane Gas, be injurious to Company facilities, or which would present a health and/or safety hazard to Company employees, customers, and/or the public.
- 4. In addition to conforming to the specifications identified above, Biomethane Gas must also conform at the time of delivery to the following limits set forth in Table 1, which are specifically related to Biomethane Gas, and which may be adopted and periodically updated by the Commission:

Advice Letter No. 1049-A

Decision No. 16-11-008

Issued by Justin Lee Brown Vice President Date Filed December 5, 2017
Effective Resolution No.

N/T/L

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# ADVICE LETTER NO. 1049-A ATTACHMENT 2



September 8, 2017

ATTN: Tariff Unit, Energy Division

California Public Utilities Commission 505 Van Ness Avenue, 4<sup>th</sup> Floor San Francisco, CA 94102

Subject: Southwest Gas Corporation (U 905 G)

Advice Letter No. 1049

Enclosed herewith is an original and one (1) copy of Southwest Gas Corporation's Advice Letter No. 1049, together with California Gas Tariff Sheet Nos. 276, 278, and 279-279.2.

Sincerely,

Valerie J. Ontiveroz

Regulatory Manager/California

VJO:jjp Enclosures



Advice Letter No. 1049

September 8, 2017

# PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Southwest Gas Corporation (Southwest Gas or Company) (U 905 G) tenders herewith for filing the following tariff sheets:

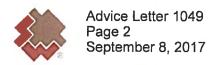
Cal. P.U.C. Sheet No.	California Gas Tariff  Title of Sheet	Canceling Cal. P.U.C. Sheet No.
2nd Revised Sheet No. 276	Rule No. 22 – Biomethane Gas	1st Revised Sheet No. 276
2nd Revised Sheet No. 278	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 278
2nd Revised Sheet No. 279	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 279
3rd Revised Sheet No. 279.1	Rule No. 22 – Biomethane Gas (Continued)	2nd Revised Sheet No. 279.1
2nd Revised Sheet No. 279.2	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 279.2

### **Purpose**

The purpose of this filing is to modify Rule No 22 – *Biomethane Gas* in Southwest Gas' California Gas Tariff, in accordance with Decision (D.) 16-11-008. D.16-11-008 revised General Order (GO) 58-A – *Standards for Gas Service in the State of California* to comply with D.14-01-034.

### Background

Assembly Bill (AB) 1900 required the Commission to approve standards and requirements for health, safety, and pipeline integrity for biomethane injected into utility pipelines and to adopt rules ensuring nondiscriminatory open access. Per D.14-01-034, issued on January 22, 2014, the Commission identified 17 constituents of concern related to biomethane, and adopted the monitoring, testing, reporting, and recordkeeping protocols recommended in the May 15, 2013, Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Biomethane into



# Background (continued)

the Common Carrier Pipeline. Additionally, Ordering Paragraph (OP) 15 in D.14-01-034 states:

After consulting with the Energy Division, the Gas Safety and Reliability Branch of the Safety and Enforcement Division, and the Administrative Law Judge Division, the Commission shall draft a new rulemaking to revise General Order 58A.<sup>1</sup>

In July 2016, the Commission issued Rulemaking (R.) 16-07-006 to revise GO 58-A to adopt standards for constituents of concern found in Biomethane Gas pursuant to D.14-01-034 and California Health and Safety Code § 25421. The revisions to GO 58-A were subsequently adopted in D.16-11-008.<sup>2</sup>

Thus, in accordance with the modifications to GO 58-A, Southwest Gas has revised its Rule No. 22 – *Biomethane Gas* as follows:

- Definitions for Biogas and Biomethane Gas have been revised to conform with the definitions found in GO 58-A;
- Hydrogen Sulfide has been added to the Biomethane Gas quality specifications in Section B.2. consistent with GO 58-A; and
- In Section B.2., Sulfur has been revised to Total Sulfur and the specifications have been revised consistent with GO 58-A.

This Advice Letter will not increase any rate or charge, cause the withdrawal of service, or conflict with any other schedule or rule.

#### **Effective Date**

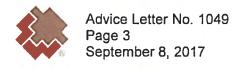
Southwest Gas believes this Advice Letter is subject to Energy Division disposition and should be classified as Tier 2, effective after Energy Division Approval, pursuant to General Order (GO) 96-B. Southwest Gas respectfully requests this Advice Letter be approved October 8, 2017, which is thirty (30) calendar days after the date filed.

#### **Protest**

Anyone may protest this Advice Letter to the Commission. The protest must state the grounds upon which it is based with specificity. The protest must be sent no later than 20

<sup>&</sup>lt;sup>1</sup> D.14-01-034, at pg. 156.

<sup>&</sup>lt;sup>2</sup> D.16-11-008, OP 1, at pgs. 14-15.



## Protest (continued)

days after the date of this Advice Letter filing and shall be sent by letter via U.S. Mail, facsimile, or electronically mailed. The address for mailing or delivering a protest to the Commission is:

ATTN: Tariff Unit
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, 4<sup>th</sup> Floor
San Francisco, CA 94102
E-mail: edtariffunit@cpuc.ca.gov

Facsimile: 415-703-2200

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004, at the same address as above and mailed or faxed to:

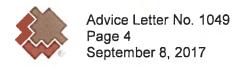
Mr. Justin Lee Brown Vice President/Regulation & Public Affairs Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510 Facsimile: 702-364-3452

# **Notice**

Southwest Gas believes it is exempt from the notice requirements set forth in GO 96-B, General Rule 4.2, since the tariff revisions proposed herein are being filed in accordance with D.16-11-008.

### Service

In accordance with GO 96-B, General Rule 7.2, Southwest Gas is serving this Advice Letter and related tariff sheet to the utilities and interested parties shown on the attached list.



# Service (continued)

Communications regarding this filing should be directed to:

Valerie J. Ontiveroz Regulatory Manager/California Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510

Telephone: 702-876-7323

E-mail: valerie.ontiveroz@swgas.com

Respectfully submitted,

SOUTHWEST GAS OF PORATION

Justin Lee Brown

Attachments,

Ву:

## **Distribution List**

Advice Letter No. 1049

In conformance with GO 96-B, General Rule 4.3

The following individual has been served by regular, first-class mail:

Elizabeth Echols, Director
Office of Ratepayer Advocates
California Public Utilities Commission
505 Van Ness Avenue, 4th Floor
San Francisco, CA 94105

The following individuals or entities have been served by electronic mail:

Pacific Gas & Electric Company PGETariffs@pge.com

Southern California Gas Company ROrtiz@SempraUtilities.com

San Diego Gas & Electric Company SDG&ETariffs@SempraUtilities.com

Belinda Gatti
Energy Division
California Public Utilities Commission
belinda.gatti@cpuc.ca.gov

Robert M. Pocta
Office of Ratepayer Advocates
California Public Utilities Commission
rmp@cpuc.ca.gov

Nathaniel Skinner Office of Ratepayer Advocates California Public Utilities Commission nws@cpuc.ca.gov

Pearlie Sabino
Office of Ratepayer Advocates
California Public Utilities Commission
pzs@cpuc.ca.gov

# CALIFORNIA PUBLIC UTILITIES COMMISSION

# ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLE	ETED BY UTILITY (A	ttach additional pages as needed)
Company name/CPUC Utility No. Sout	hwest Gas Corporat	ion (U 905 G)
Utility type:	Contact Person: Va	lerie J. Ontiveroz
□ ELC ■ GAS	Phone #: (702) 876	<u>-7323</u>
□ PLC □ HEAT □ WATER	E-mail: valerie.onti	veroz@swgas.com
EXPLANATION OF UTILIT ELC = Electric GAS = Gas PLC = Pipeline HEAT = Heat	Y TYPE  WATER = Water	(Date Filed/ Received Stamp by CPUC)
Advice Letter (AL) #: 1049		
Subject of AL: Modify Rule No. 22 - Bi	omethane Gas.	
Keywords (choose from CPUC listing):	mbalance Trades	
AL filing type: ☐ Monthly ☐ Quarterly ☐	] Annual □ One-Tim	e ■ Other
If AL filed in compliance with a Commission	sion order, indicate re	elevant Decision/Resolution #:
Does AL replace a withdrawn or rejected	d AL? If so, identify th	ne prior AL Not applicable
Summarize differences between the AL	and the prior withdra	wn or rejected AL1: <b>Not applicable</b>
Resolution Required? ☐ Yes ■ No		
Requested effective date: October 8, 20	017	No. of tariff sheets: 5
Estimated system annual revenue effect	: (%): Not applicabl	
Estimated system average rate effect (%	6): Not applicable	
	attachment in AL sho	wing average rate effects on customer classes
Tariff schedules affected: None		
Service affected and changes proposed		
Pending advice letters that revise the sa	me tariff sheets: Not	<u>applicable</u>
Protests and all other correspondence reunless otherwise authorized by the Com	egarding this AL are o mission, and shall be	due no later than 20 days after the date of this filing, sent to:
CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Ave. San Francisco, CA 94102 E-mail: edtariffunit@cpuc.ca.gov	\ S F L E	Ar. Justin Lee Brown, Arice-President/Regulation & Public Affairs Bouthwest Gas Corporation C. O. Box 98510 Las Vegas, NV 89193-8510 E-mail: justin.brown@swgas.com Bacsimile: 702-364-3452

 $<sup>^{\</sup>rm 3}$  Discuss in AL if more space is needed.

Canceling

1st Revised

2nd Revised Cal. P.U.C. Sheet No. \_ Cal. P.U.C. Sheet No.

276

# RULE NO. 22

# **BIOMETHANE GAS**

# **APPLICABILITY**

California Gas Tariff

This Rule applies to suppliers of Biomethane Gas and provides the general terms and conditions that apply to the interconnection between a Biomethane Gas supplier's facilities and the Company's facilities and the Company's receipt of Biomethane Gas into its system from such interconnection point(s). This Rule is intended to implement Decision (D.) 14-01-034, including rules regarding Constituent concentration standards, monitoring and testing requirements, and reporting and recordkeeping requirements.

#### Α. **DEFINITIONS**

ARB:

Air Resources Board of the California Environmental Protection

Agency,

Biogas:

Biogas is created when organic waste decomposes anaerobically (without oxygen). Biogas may be obtained from landfills, dairies,

sewage treatment plants, and other organic sources.

Biomethane Gas:

Biomethane Gas is produced by processing or upgrading biogas to increase the percentage of methane in the gas by removing carbon dioxide and other trace components to meet the standards for injection into a common carrier pipeline. Biomethane Gas does not include Biogas collected from a hazardous waste landfill, as defined in Health & Safety Code § 25117.1 and pursuant to the parameters set forth in Section D of this Rule.

CARB/OEHHA Report:

Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Biomethane into the Common Carrier Pipeline, prepared by Staff of the California Air Resources Board and the Office of Health Hazard Assessment. The CARB/OEHHA Report was submitted in Rulemaking 13-02-008 and adopted in D.14-01-034.

Constituent of Concern (Constituent):

A chemical or compound that may impact the merchantability of Biomethane Gas.

- (a) Health Protective Constituents include:
  - 1. Carcinogenic (cancer risk): arsenic, p-Dichlorobenzene, ethylbenzene, n-Nitroso-di-n-propylamine, chloride.

Advice Letter No. 1049 16-11-008 Decision No.

Issued by Justin Lee Brown Vice President

Date Filed September 8, 2017 Effective Resolution No.

T

Canceling

2nd Revised 1st Revised

Cal. P.U.C. Sheet No. \_ Cal. P.U.C. Sheet No. \_

278 278

## RULE NO. 22

# BIOMETHANE GAS (Continued)

# B. BIOMETHANE GAS SPECIFICATIONS

- 1. Biomethane Gas must meet the gas quality specifications identified in this Rule and the Company's Rule No. 21, Transportation of Customer-Secured Natural Gas, of this California Gas Tariff, as adopted and periodically updated by the Commission.
- 2. Biomethane Gas received into the Company's system shall conform to the following quality specifications at the time of receipt:
  - a. Biomethane Gas must be free from bacteria, pathogens, dust, sand, dirt, gums, oils, and/or any other substances at levels that would be injurious to the Company's facilities, and/or to render the gas unmerchantable.
  - b. Biomethane Gas delivered into the Company's system at the point(s) of receipt shall be at a pressure that can be integrated into the Company's system.
  - c. Delivery Temperature: Biomethane Gas delivery temperature is not to be below 40 degrees Fahrenheit or above 120 degrees Fahrenheit.
  - d. Biomethane Gas Interchangeability: Biomethane Gas shall be interchangeable with the gas in the Company's receiving pipeline. Biomethane Gas shall have a minimum Wobbe Number of 1280. Biomethane Gas shall meet American Gas Association's Lifting Index, Flashback Index and Yellow Tip Index interchangeability indices for high methane gas relative to a typical composition of gas in the Company's system serving the area. Acceptable specification ranges are: \* Lifting Index (IL); IL <= 1.06; \* Flashback Index (IF); IF <= 1.2; \* Yellow Tip Index (IY); IY >= 0.8.
  - e. Inert gases: Biomethane Gas supplied shall not contain greater than 4% of total combined inert compounds, which includes maximums of 0.2% oxygen, 3% nitrogen; 2% carbon dioxide, and any other inert gas by total volume.
  - f. Hydrogen Sulfide: Biomethane Gas shall contain no more than 0.25 grains of hydrogen sulfide, measured as hydrogen sulfide, per 100 standard cubic feet (4 parts per million (ppm) by volume of hydrogen sulfide).

Advice Letter No. 1049

Decision No. 16-11-008

Issued by Justin Lee Brown Vice President

Date Filed September 8, 2017
Effective Resolution No.

N

Canceling

279 279

RULE NO. 22

# BIOMETHANE GAS (Continued)

# B. <u>BIOMETHANE GAS SPECIFICATIONS</u> (Continued)

- g. Total Sulfur: Biomethane Gas shall not contain more than 5 grains of total sulfur compounds, measured as sulfur, per 100 standard cubic feet or 80 ppm by volume of total sulfur. This includes COS and CS2, hydrogen sulfide, mercaptans, and mono di and poly sulfides.
- h. Liquids: Biomethane Gas shall contain no liquids at, or immediately downstream of the receipt point(s).
- i. Hydrocarbon Dew Point for Biomethane Gas is not to exceed 20 degrees Fahrenheit.
- j. Water Content: Biomethane Gas received into the Company's system shall have a water content of less than 7 pounds per million standard cubic feet.
- 3. Biomethane Gas must not contain any hazardous substances at concentration levels which would prevent or unduly impact the merchantability of Biomethane Gas, be injurious to Company facilities, or which would present a health and/or safety hazard to Company employees, customers, and/or the public.
- 4. In addition to conforming to the specifications identified above, Biomethane Gas must also conform at the time of delivery to the following limits set forth in Table 1, which are specifically related to Biomethane Gas, and which may be adopted and periodically updated by the Commission:

Advice Letter No. 1049

Decision No. 16-11-008

Issued by Justin Lee Brown Vice President Date Filed September 8, 2017
Effective Resolution No.

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Canceling

3rd Revised<br/>2nd RevisedCal. P.U.C. Sheet No.279.12nd RevisedCal. P.U.C. Sheet No.279.1 2nd Revised Cal. P.U.C. Sheet No.

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RULE NO. 22

# **BIOMETHANE GAS**

(Continued)

# BIOMETHANE GAS SPECIFICATIONS (Continued)

Сопсел	Table ration Standards for Bio		ents
Constituent	Trigger Level	Lower Action Level	Upper Action Level
	Health Protective	Constituents <sup>1</sup>	
<u>Carcinogenic</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)
Non-Carcinogenic			
Antimony	0.60 (0.12)	6.0 (1.2)	30 (6.1)
Copper	0.060 (0.02)	0.60 (0.23)	3.0 (1.2)
Hydrogen Sulfide <sup>2</sup>	30 (22)	300 (216)	1,500 (1,080)
Lead	0.075 (0.009)	0.75 (0.09)	3.8 (0.44)
Methacrolein	1.1 (0.37)	11 (3.7)	53 (18)
Alkyl Thiols (Mercaptans) <sup>2</sup>	N/A (12)	N/A (120)	N/A (610)
Toluene	904 (240)	9,000 (2,400)	45,000 (12,000)
	Pipeline Integrity Protect	ctive Constituents <sup>3</sup>	
Siloxanes	0.01 mg Si/m <sup>3</sup>	0.1 mg Si/m <sup>3</sup>	-
Ammonia	0.001%		-
Hydrogen	0.1%	-	
Mercury	0.08 mg/m <sup>3</sup>	-	•
Biologicals	4 x 10 <sup>4</sup> /scf (qPCR per APB, SRB, IOB group <sup>4</sup> ) and commercially free of bacteria of >0.2 micron	-	-

<sup>&</sup>lt;sup>1</sup> The first number in Table 1, Health Protective Constituents, are in mg/m³, while the second number in ( ) is in ppm<sub>v</sub>.

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<sup>&</sup>lt;sup>2</sup> Testing requirement will be the lower of stated Biomethane Gas values or other requirements in this Rule. <sup>3</sup> The Pipeline Integrity Protective Constituent Lower and Upper Action Level limits will be established in the Commission's next update proceeding. Until that time, Biomethane Gas that contains 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 Gas' potential impact on the Company's pipeline system integrity. The Lower Action Level may be set at concentration levels equal or greater than the

Acid-producing Bacteria [APB], Sulfate-reducing Bacteria [SRB], and Iron-oxidizing Bacteria [IOB]

Canceling

1st Revised

2nd Revised Cal. P.U.C. Sheet No. 279.2 Cal. P.U.C. Sheet No. 279.2

# RULE NO. 22

# **BIOMETHANE GAS** (Continued)

# B. BIOMETHANE GAS SPECIFICATIONS (Continued)

5. Biomethane Gas must conform to the requirements listed in Table 2 below:

	Collective R	Table 2 isk from Carcinogenic Health Protective Cor	and Non-Carcinogenic
Risk Management Levels	Risk from Carcinogenic Constituents (chances in a million)	Hazard Index from Non-Carcinogenic Constituents	Action
Trigger Level <sup>[1]</sup>	<u>&gt;</u> 1.0	<u>≥</u> 0.1	Periodic Testing Required
Lower Action Level <sup>[2]</sup>	<u>&gt;</u> 10.0	<u>≥</u> 1.0	Biomethane Gas supply shut-in after three exceedances in 12 months
Upper Action Level <sup>[3]</sup>	<u>&gt;</u> 25.0	<u>≥</u> 5.0	Immediate Biomethane Gas supply shut-in

[1] Applies to individual Constituent concentrations

<sup>[2]</sup> Applies to the sum of all Constituent concentrations over the Trigger Level.

- Source-specific Biomethane Gas Testing shall vary based on the source of 6. the Biomethane Gas:
  - Biomethane Gas supplied by landfills shall be tested for all 17 Health a. and Pipeline Integrity Protective Constituents.
  - b. Biomethane Gas supplied by dairies shall be tested for Ethylbenzene, Hydrogen Sulfide, n-Nitroso-di-n-propylamine, Mercaptans, Toluene and all Pipeline Integrity Protective Constituents.
  - Biomethane Gas supplied by publicly owned treatment works (water C. and sewage treatment plants) and other sources of Biomethane Gas shall be tested for p-Dichlorobenzene, Ethylbenzene, Hydrogen Sulfide, Mercaptans, Toluene, Vinyl Chloride, and all Pipeline Integrity Protective Constituents.

Advice Letter No. 1049 Decision No. 16-11-008

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Date Filed September 8, 2017 Effective Resolution No.

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<sup>[3]</sup> Applies to individual Constituent concentrations or to the sum of all Constituent concentrations over the Trigger Level.

# ADVICE LETTER NO. 1049-A ATTACHMENT 3



# CALIFORNIA PUBLIC UTILITIES COMMISSION **Service Lists**

PROCEEDING: R1607006 - CPUC - OIR TO REVISE

FILER: CPUC LIST NAME: LIST

**LAST CHANGED: NOVEMBER 8, 2017** 

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TOP OF PAGE BACK TO INDEX OF SERVICE LISTS



September 8, 2017

ATTN: Tariff Unit, Energy Division

California Public Utilities Commission 505 Van Ness Avenue, 4<sup>th</sup> Floor San Francisco, CA 94102

Subject: Southwest Gas Corporation (U 905 G)
Advice Letter No. 1049

Enclosed herewith is an original and one (1) copy of Southwest Gas Corporation's Advice Letter No. 1049, together with California Gas Tariff Sheet Nos. 276, 278, and 279-279.2.

Sincerely,

Valerie J. Ontiveroz

Regulatory Manager/California

VJO:jjp Enclosures Advice Letter No. 1049

September 8, 2017

# PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Southwest Gas Corporation (Southwest Gas or Company) (U 905 G) tenders herewith for filing the following tariff sheets:

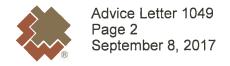
Cal. P.U.C.	California Gas Tariff	Canceling Cal. P.U.C.
Sheet No.	Title of Sheet	Sheet No.
2nd Revised Sheet No. 276	Rule No. 22 – Biomethane Gas	1st Revised Sheet No. 276
2nd Revised Sheet No. 278	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 278
2nd Revised Sheet No. 279	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 279
3rd Revised Sheet No. 279.1	Rule No. 22 – Biomethane Gas (Continued)	2nd Revised Sheet No. 279.1
2nd Revised Sheet No. 279.2	Rule No. 22 – Biomethane Gas (Continued)	1st Revised Sheet No. 279.2

### Purpose

The purpose of this filing is to modify Rule No 22 – *Biomethane Gas* in Southwest Gas' California Gas Tariff, in accordance with Decision (D.) 16-11-008. D.16-11-008 revised General Order (GO) 58-A – *Standards for Gas Service in the State of California* to comply with D.14-01-034.

### Background

Assembly Bill (AB) 1900 required the Commission to approve standards and requirements for health, safety, and pipeline integrity for biomethane injected into utility pipelines and to adopt rules ensuring nondiscriminatory open access. Per D.14-01-034, issued on January 22, 2014, the Commission identified 17 constituents of concern related to biomethane, and adopted the monitoring, testing, reporting, and recordkeeping protocols recommended in the May 15, 2013, Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Biomethane into



# Background (continued)

the Common Carrier Pipeline. Additionally, Ordering Paragraph (OP) 15 in D.14-01-034 states:

After consulting with the Energy Division, the Gas Safety and Reliability Branch of the Safety and Enforcement Division, and the Administrative Law Judge Division, the Commission shall draft a new rulemaking to revise General Order 58A.<sup>1</sup>

In July 2016, the Commission issued Rulemaking (R.) 16-07-006 to revise GO 58-A to adopt standards for constituents of concern found in Biomethane Gas pursuant to D.14-01-034 and California Health and Safety Code § 25421. The revisions to GO 58-A were subsequently adopted in D.16-11-008.<sup>2</sup>

Thus, in accordance with the modifications to GO 58-A, Southwest Gas has revised its Rule No. 22 – *Biomethane Gas* as follows:

- Definitions for Biogas and Biomethane Gas have been revised to conform with the definitions found in GO 58-A;
- Hydrogen Sulfide has been added to the Biomethane Gas quality specifications in Section B.2. consistent with GO 58-A; and
- In Section B.2., Sulfur has been revised to Total Sulfur and the specifications have been revised consistent with GO 58-A.

This Advice Letter will not increase any rate or charge, cause the withdrawal of service, or conflict with any other schedule or rule.

#### **Effective Date**

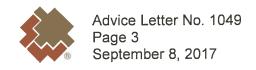
Southwest Gas believes this Advice Letter is subject to Energy Division disposition and should be classified as Tier 2, effective after Energy Division Approval, pursuant to General Order (GO) 96-B. Southwest Gas respectfully requests this Advice Letter be approved October 8, 2017, which is thirty (30) calendar days after the date filed.

#### Protest

Anyone may protest this Advice Letter to the Commission. The protest must state the grounds upon which it is based with specificity. The protest must be sent no later than 20

<sup>&</sup>lt;sup>1</sup> D.14-01-034, at pg. 156.

<sup>&</sup>lt;sup>2</sup> D.16-11-008, OP 1, at pgs. 14-15.



# Protest (continued)

days after the date of this Advice Letter filing and shall be sent by letter via U.S. Mail, facsimile, or electronically mailed. The address for mailing or delivering a protest to the Commission is:

ATTN: Tariff Unit
Energy Division
California Public Utilities Commission
505 Van Ness Avenue, 4<sup>th</sup> Floor
San Francisco, CA 94102
E-mail: edtariffunit@cpuc.ca.gov

Facsimile: 415-703-2200

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004, at the same address as above and mailed or faxed to:

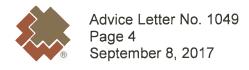
Mr. Justin Lee Brown Vice President/Regulation & Public Affairs Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510 Facsimile: 702-364-3452

### **Notice**

Southwest Gas believes it is exempt from the notice requirements set forth in GO 96-B, General Rule 4.2, since the tariff revisions proposed herein are being filed in accordance with D.16-11-008.

#### Service

In accordance with GO 96-B, General Rule 7.2, Southwest Gas is serving this Advice Letter and related tariff sheet to the utilities and interested parties shown on the attached list.



# Service (continued)

Communications regarding this filing should be directed to:

Valerie J. Ontiveroz Regulatory Manager/California Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510

Telephone: 702-876-7323

E-mail: valerie.ontiveroz@swgas.com

Respectfully submitted,

SOUTHWEST GAS CORPORATION

By:

Justin Lee Brown

Attachments

# **Distribution List**

Advice Letter No. 1049

In conformance with GO 96-B, General Rule 4.3

The following individual has been served by regular, first-class mail:

Elizabeth Echols, Director Office of Ratepayer Advocates California Public Utilities Commission 505 Van Ness Avenue, 4th Floor San Francisco, CA 94105

The following individuals or entities have been served by electronic mail:

Pacific Gas & Electric Company PGETariffs@pge.com

Southern California Gas Company ROrtiz@SempraUtilities.com

San Diego Gas & Electric Company SDG&ETariffs@SempraUtilities.com

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California Public Utilities Commission
belinda.gatti@cpuc.ca.gov

Robert M. Pocta
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California Public Utilities Commission
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Pearlie Sabino
Office of Ratepayer Advocates
California Public Utilities Commission
pzs@cpuc.ca.gov

# 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. Souti	nwest Gas Corporat	ion (U 905 G)	
Utility type:	Contact Person: Va	lerie J. Ontiveroz	
□ ELC ■ GAS	Phone #: (702) 876	<u>-7323</u>	
□ PLC □ HEAT □ WATER	E-mail: valerie.onti	veroz@swgas.com	
EXPLANATION OF UTILIT ELC = Electric GAS = Gas PLC = Pipeline HEAT = Heat	Y TYPE WATER = Water	(Date Filed/ Received Stamp by CPUC)	
Advice Letter (AL) #: 1049			
Subject of AL: Modify Rule No. 22 - Bi	omethane Gas.		
Keywords (choose from CPUC listing): I	mbalance Trades		
AL filing type: ☐ Monthly ☐ Quarterly ☐	] Annual □ One-Tim	e ■ Other	
If AL filed in compliance with a Commiss	sion order, indicate re	elevant Decision/Resolution #:	
Does AL replace a withdrawn or rejected	d AL? If so, identify th	ne prior AL Not applicable	
Summarize differences between the AL	and the prior withdra	wn or rejected AL¹: <b>Not applicable</b>	
Resolution Required? ☐ Yes ■ No			
Requested effective date: October 8, 20	<u>)17</u>	No. of tariff sheets: 5	
Estimated system annual revenue effect	t: (%): Not applicabl	<u>le</u>	
Estimated system average rate effect (%	6): Not applicable		
(residential, small commercial, large C/I,		wing average rate effects on customer classes	
Tariff schedules affected: None	2		
Service affected and changes proposed			
Pending advice letters that revise the sa			
Protests and all other correspondence re unless otherwise authorized by the Com		due no later than 20 days after the date of this filing, e sent to:	
CPUC, Energy Division Attention: Tariff Unit 505 Van Ness Ave. San Francisco, CA 94102 E-mail: edtariffunit@cpuc.ca.gov	\ S F L E	Mr. Justin Lee Brown, Vice-President/Regulation & Public Affairs Southwest Gas Corporation P. O. Box 98510 Las Vegas, NV 89193-8510 E-mail: justin.brown@swgas.com Facsimile: 702-364-3452	

<sup>&</sup>lt;sup>3</sup> Discuss in AL if more space is needed.

Las Vegas, Nevada 89193-8510 California Gas Tariff

Canceling

2nd Revised 1st Revised

Cal. P.U.C. Sheet No. \_ Cal. P.U.C. Sheet No.

276 276

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# RULE NO. 22

# **BIOMETHANE GAS**

# **APPLICABILITY**

This Rule applies to suppliers of Biomethane Gas and provides the general terms and conditions that apply to the interconnection between a Biomethane Gas supplier's facilities and the Company's facilities and the Company's receipt of Biomethane Gas into its system from such interconnection point(s). This Rule is intended to implement Decision (D.) 14-01-034, including rules regarding Constituent concentration standards, monitoring and testing requirements, and reporting and recordkeeping requirements.

# A. DEFINITIONS

ARB:

Air Resources Board of the California Environmental Protection

Agency.

Biogas:

Biogas is created when organic waste decomposes anaerobically

(without oxygen). Biogas may be obtained from landfills, dairies,

sewage treatment plants, and other organic sources.

Biomethane Gas:

Biomethane Gas is produced by processing or upgrading biogas to increase the percentage of methane in the gas by removing carbon dioxide and other trace components to meet the standards for injection into a common carrier pipeline. Biomethane Gas does not include Biogas collected from a hazardous waste landfill, as defined in Health & Safety Code § 25117.1 and pursuant to the parameters set forth in Section D of this Rule.

CARB/OEHHA

Report:

Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Biomethane into the Common Carrier Pipeline, prepared by Staff of the California Air Resources Board and the Office of Health Hazard Assessment. The CARB/OEHHA Report was submitted in Rulemaking 13-02-008 and adopted in D.14-01-034.

Constituent of Concern (Constituent):

A chemical or compound that may impact the merchantability of Biomethane Gas.

- (a) Health Protective Constituents include:
  - 1. Carcinogenic (cancer risk): arsenic, p-Dichlorobenzene, ethylbenzene, n-Nitroso-di-n-propylamine, and vinyl chloride.

		Issued by	Date Filed	September 8, 20
Advice Letter No	1049	Justin Lee Brown	Effective	
Decision No	16-11-008	Vice President	Resolution No	·

Canceling

2nd Revised 1st Revised

Cal. P.U.C. Sheet No. \_\_ Cal. P.U.C. Sheet No.

278 278

RULE NO. 22

# BIOMETHANE GAS (Continued)

# B. BIOMETHANE GAS SPECIFICATIONS

- 1. Biomethane Gas must meet the gas quality specifications identified in this Rule and the Company's Rule No. 21, Transportation of Customer-Secured Natural Gas, of this California Gas Tariff, as adopted and periodically updated by the Commission.
- 2. Biomethane Gas received into the Company's system shall conform to the following quality specifications at the time of receipt:
  - a. Biomethane Gas must be free from bacteria, pathogens, dust, sand, dirt, gums, oils, and/or any other substances at levels that would be injurious to the Company's facilities, and/or to render the gas unmerchantable.
  - b. Biomethane Gas delivered into the Company's system at the point(s) of receipt shall be at a pressure that can be integrated into the Company's system.
  - c. Delivery Temperature: Biomethane Gas delivery temperature is not to be below 40 degrees Fahrenheit or above 120 degrees Fahrenheit.
  - d. Biomethane Gas Interchangeability: Biomethane Gas shall be interchangeable with the gas in the Company's receiving pipeline. Biomethane Gas shall have a minimum Wobbe Number of 1280. Biomethane Gas shall meet American Gas Association's Lifting Index, Flashback Index and Yellow Tip Index interchangeability indices for high methane gas relative to a typical composition of gas in the Company's system serving the area. Acceptable specification ranges are: \* Lifting Index (IL); IL <= 1.06; \* Flashback Index (IF); IF <= 1.2; \* Yellow Tip Index (IY); IY >= 0.8.
  - e. Inert gases: Biomethane Gas supplied shall not contain greater than 4% of total combined inert compounds, which includes maximums of 0.2% oxygen, 3% nitrogen; 2% carbon dioxide, and any other inert gas by total volume.
  - f. Hydrogen Sulfide: Biomethane Gas shall contain no more than 0.25 grains of hydrogen sulfide, measured as hydrogen sulfide, per 100 standard cubic feet (4 parts per million (ppm) by volume of hydrogen sulfide).

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Advice Letter No. 1049 | September 8, 2017

Decision No. 16-11-008 | Vice President | Resolution No. | September 8, 2017

Canceling

2nd Revised Cal. P.U.C. Sheet No. 279 1st Revised Cal. P.U.C. Sheet No. 279

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RULE NO. 22

# **BIOMETHANE GAS** (Continued)

#### B. BIOMETHANE GAS SPECIFICATIONS (Continued)

- Total Sulfur: Biomethane Gas shall not contain more than 5 grains of g. total sulfur compounds, measured as sulfur, per 100 standard cubic feet or 80 ppm by volume of total sulfur. This includes COS and CS2, hydrogen sulfide, mercaptans, and mono di and poly sulfides.
- Liquids: Biomethane Gas shall contain no liquids at, or immediately h. downstream of the receipt point(s).
- Hydrocarbon Dew Point for Biomethane Gas is not to exceed 20 i. degrees Fahrenheit.
- j. Water Content: Biomethane Gas received into the Company's system shall have a water content of less than 7 pounds per million standard cubic feet.
- 3. Biomethane Gas must not contain any hazardous substances at concentration levels which would prevent or unduly impact the merchantability of Biomethane Gas, be injurious to Company facilities, or which would present a health and/or safety hazard to Company employees, customers, and/or the public.
- 4. In addition to conforming to the specifications identified above, Biomethane Gas must also conform at the time of delivery to the following limits set forth in Table 1, which are specifically related to Biomethane Gas, and which may be adopted and periodically updated by the Commission:

1049 Advice Letter No. 16-11-008 Decision No.

Issued by Justin Lee Brown Vice President

September 8, 2017 Date Filed Effective Resolution No.

Canceling

3rd Revised Cal. P.U.C. Sheet No. 279.1 2nd Revised Cal. P.U.C. Sheet No. 279.1

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RULE NO. 22

# **BIOMETHANE GAS**

(Continued)

#### B. BIOMETHANE GAS SPECIFICATIONS (Continued)

Concent	Table ration Standards for Bio		ents
Constituent	Trigger Level	Lower Action Level	Upper Action Leve
	Health Protective	Constituents <sup>1</sup>	
<u>Carcinogenic</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)
Non-Carcinogenic			()
Antimony	0.60 (0.12)	6.0 (1.2)	30 (6.1)
Copper	0.060 (0.02)	0.60 (0.23)	3.0 (1.2)
Hydrogen Sulfide <sup>2</sup>	30 (22)	300 (216)	1,500 (1,080)
Lead	0.075 (0.009)	0.75 (0.09)	3.8 (0.44)
Methacrolein	1.1 (0.37)	11 (3.7)	53 (18)
Alkyl Thiols (Mercaptans) <sup>2</sup>	N/A (12)	N/A (120)	N/A (610)
Toluene	904 (240)	9,000 (2,400)	45,000 (12,000)
	Pipeline Integrity Protect	ctive Constituents <sup>3</sup>	
Siloxanes	0.01 mg Si/m <sup>3</sup>	0.1 mg Si/m <sup>3</sup>	-
Ammonia	0.001%		-
Hydrogen	0.1%	-	-
Mercury	0.08 mg/m <sup>3</sup>	-	•
Biologicals	4 x 10 <sup>4</sup> /scf (qPCR per APB, SRB, IOB group <sup>4</sup> ) and commercially free of bacteria of >0.2	-	-

<sup>&</sup>lt;sup>1</sup> The first number in Table 1, Health Protective Constituents, are in mg/m³, while the second number in () is in

<sup>4</sup> Acid-producing Bacteria [APB], Sulfate-reducing Bacteria [SRB], and Iron-oxidizing Bacteria [IOB]

Advice Letter No.	1049	
Decision No	16-11-008	

<sup>&</sup>lt;sup>2</sup> Testing requirement will be the lower of stated Biomethane Gas values or other requirements in this Rule. <sup>3</sup> The Pipeline Integrity Protective Constituent Lower and Upper Action Level limits will be established in the Commission's next update proceeding. Until that time, Biomethane Gas that contains 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 Gas' potential impact on the Company's pipeline system integrity. The Lower Action Level may be set at concentration levels equal or greater than the Trigger Level.

Las Vegas, Nevada 89193-8510 California Gas Tariff

Canceling

2nd Revised Cal. P.U.C. Sheet No. 279.2 1st Revised Cal. P.U.C. Sheet No. 279.2

RULE NO. 22

# **BIOMETHANE GAS**

(Continued)

# B. BIOMETHANE GAS SPECIFICATIONS (Continued)

5. Biomethane Gas must conform to the requirements listed in Table 2 below:

Table 2 Collective Risk from Carcinogenic and Non-Carcinogenic Health Protective Constituents			
Risk Management Levels	Risk from Carcinogenic Constituents (chances in a million)	Hazard Index from Non-Carcinogenic Constituents	Action
Trigger Level <sup>[1]</sup>	<u>≥</u> 1.0	<u>≥</u> 0.1	Periodic Testing Required
Lower Action Level <sup>[2]</sup>	<u>≥</u> 10.0	<u>≥</u> 1.0	Biomethane Gas supply shut-in after three exceedances in 12 months
Upper Action Level <sup>[3]</sup>	<u>&gt;</u> 25.0	<u>≥</u> 5.0	Immediate Biomethane Gas supply shut-in

<sup>[1]</sup> Applies to individual Constituent concentrations

- Source-specific Biomethane Gas Testing shall vary based on the source of 6. the Biomethane Gas:
  - Biomethane Gas supplied by landfills shall be tested for all 17 Health a. and Pipeline Integrity Protective Constituents.
  - b. Biomethane Gas supplied by dairies shall be tested for Ethylbenzene, Hydrogen Sulfide, n-Nitroso-di-n-propylamine, Mercaptans, Toluene and all Pipeline Integrity Protective Constituents.
  - Biomethane Gas supplied by publicly owned treatment works (water C. and sewage treatment plants) and other sources of Biomethane Gas shall be tested for p-Dichlorobenzene, Ethylbenzene, Hydrogen Sulfide, Mercaptans, Toluene, Vinyl Chloride, and all Pipeline Integrity Protective Constituents.

Advice Letter No. 1049 Decision No.\_\_\_\_ 16-11-008

Issued by Justin Lee Brown Vice President

Date Filed September 8, 2017 Effective Resolution No.

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<sup>[2]</sup> Applies to the sum of all Constituent concentrations over the Trigger Level.

<sup>[3]</sup> Applies to individual Constituent concentrations or to the sum of all Constituent concentrations over the Trigger Level.