

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Southwest Gas Corporation
GAS (Corp ID 905)
Status of Advice Letter 1251G
As of March 21, 2023

Subject: Revisions to Rule No. 22 Pursuant to Decision 22-12-057

Division Assigned: Energy

Date Filed: 02-17-2023

Date to Calendar: 03-01-2023

Authorizing Documents: D2212057

Disposition:	Accepted
Effective Date:	03-15-2023

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

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PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
edtariffunit@cpuc.ca.gov



SOUTHWEST GAS CORPORATION

February 17, 2023

Advice Letter No. 1251-G

(U 905 G)

Public Utilities Commission of the State of California

Subject: Revisions to Rule No. 22 Pursuant to Decision 22-12-057

Southwest Gas Corporation (Southwest Gas) hereby submits for approval by the California Public Utilities Commission (Commission) revisions to its California Gas Tariff. The tariff sheets being modified as a result of this submission are provided in Attachment A.

Purpose

The purpose of this Advice Letter is to revise Rule No. 22 - Standard Renewable Gas Interconnections to the Utility's Pipeline System pursuant to Ordering Paragraphs (OP) 4 through 6 in Decision (D.) 22-12-057 to incorporate a definition for Clean Renewable Hydrogen and to Lower and Upper Actions Levels for hydrogen.

Background

On February 13, 2013, Rulemaking (R.) 13-02-008 was opened to implement Assembly Bill (AB) 1900 (Gatto, 2012), which added Health and Safety Code (HSC) § 25421 and requires the California Public Utilities Commission (Commission or CPUC) to take certain actions with respect to biogas and biomethane.

Specifically, HSC § 25421(c) requires the Commission to adopt biomethane standards that specify the concentration of allowable constituents in biomethane injected into a common carrier pipeline. The adoption of the biomethane standards ensures the protection of human health, and pipeline and pipeline facility integrity and safety.

Pursuant to OP 5 in D.22-12-057, the respondent gas utilities in R.13-02-008, including Southwest Gas, are required to revise their respective Standard Renewable Gas Interconnection (SRGI) Tariff Rules (Southwest Gas Rule No. 22) to reflect the following new "clean renewable hydrogen" definition provided in OP 4:

Hydrogen which is produced through a process that results in a lifecycle (*i.e.*, well-to-gate) greenhouse gas emissions rate of not greater than 4 kilograms of CO_{2e} per kilogram of hydrogen produced and does not use fossil fuel as either a feedstock or production energy source.



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Additionally, OP 6 in D.22-12-057 requires the respondent gas utilities to revise their SRGI Tariff Rules to include Lower and Upper Action Levels for hydrogen as one percent and five percent content by volume, respectively.

Proposed Tariff Revisions to Rule No. 22

In compliance with OPs 4-6 in D.22-12-057, Southwest Gas has modified its Rule No. 22 to add a definition for Clean Renewable Hydrogen and include Lower and Upper Action Levels for hydrogen as described above. Other conforming revisions are included to accommodate these revisions.

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 should be classified as Tier 1 (effective pending disposition) pursuant to D.22-12-057 and General Order (GO) 96-B. Southwest Gas respectfully requests that this Advice Letter be made effective February 17, 2023, which is the date of submission.

Protest

Anyone may protest this Advice Letter to the Commission's Energy Division. The protest must state the grounds upon which it is based with specificity and must be sent no later than 20 days after the date of this Advice Letter submission. Protests are to be submitted electronically to the Commission's Energy Division at:

Email: edtariffunit@cpuc.ca.gov

In addition, protests and all other correspondence regarding this Advice Letter should be sent electronically to:

Ms. Valerie J. Ontiveroz
Regulatory Manager/California
Email: valerie.ontiveroz@swgas.com
regserve@swgas.com

Notice

Southwest Gas believes it is exempt from the notice requirements set forth in General Rule 4.2 of GO 96-B, since this Advice Letter is being submitted in compliance with D.22-12-057.



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Service

Service In accordance with GO 96-B, General Rule 7.2, Southwest Gas is serving copies of this Advice Letter to the utilities and interested parties shown on the attached distribution list and on the official service list in R.13-02-008.

Respectfully submitted,
SOUTHWEST GAS CORPORATION

By: 
Valerie J. Ontiveroz

Attachments

Distribution List

Advice Letter No. 1251-G

In conformance with GO 96-B, General Rule 4.3

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

Matt Baker, Director
Public Advocates Office
Matt.Baker@cpuc.ca.gov

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PGETariffs@pge.com

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ATTACHMENT A
Advice Letter No. 1251-G

Cal. P.U.C. Sheet No.	Title of Sheet	Canceling Cal. P.U.C. Sheet No.
4th Revised Sheet No. 276	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System	3rd Revised Sheet No. 276
6th Revised Sheet No. 277	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	5th Revised Sheet No. 277
6th Revised Sheet No. 277	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	5th Revised Sheet No. 279.3
5th Revised Sheet No. 277	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	4th Revised Sheet No. 279.4
2nd Revised Sheet No. 279.4.1	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	1st Revised Sheet No. 279.4.1
4th Revised Sheet No. 279.5	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	3rd Revised Sheet No. 279.5
5th Revised Sheet No. 279.6	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	4th Revised Sheet No. 279.6
3rd Revised Sheet No. 279.7	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	2nd Revised Sheet No. 279.7
4th Revised Sheet No. 279.8	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	3rd Revised Sheet No. 279.8
3rd Revised Sheet No. 279.14.16	Rule No. 22 – Standard Renewable Gas Interconnections to the Utility’s Pipeline System <i>(Continued)</i>	2nd Revised Sheet No. 279.14.16

RULE NO. 22

Sheet 1

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM

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STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS

6. Btu Zone or Area

A physically identifiable area of the gas transmission and/or distribution system in which the heating value of the Gas is measured and is representative of the entire area.

7. California Producer or Production

An entity which interconnects with the Utility's pipeline system to deliver Gas produced in California.

8. CARB

California Air Resources Board of the California Environmental Protection Agency.

9. CARB/OEHHA Report

The report entitled Recommendations to the California Public Utilities Commission Regarding Health Protective Standards for the Injection of Renewable Natural 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 (R.)13-02-008 and adopted in Decision (D.) 14-01-034.

10. Clean Renewable Hydrogen

Hydrogen which is produced through a process that results in a lifecycle (*i.e.*, well-to-gate) greenhouse gas emissions rate of not greater than 4 kilograms of CO₂e per kilogram of hydrogen produced and does not use fossil fuel as either a feedstock or production energy source.

11. Commission (CPUC)

The Public Utilities Commission of the State of California, sometimes referred to as the Public Utilities Commission (PUC), CPUC, or Commission.

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Sheet 8

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

12. Conditioning or Upgrading

The removal of non-compliant components from Biogas or Raw Product Gas, or the addition of other gases, in order to meet Utility pipeline quality gas specifications. Blending is not considered to be a form of Conditioning or Upgrading.

13. Conditioning or Upgrading Facilities

Interconnector's Facilities used for Conditioning and Upgrading.

14. Constituent of Concern (Constituent)

A chemical or compound that may negatively impact the Merchantability of Renewable Gas.

15. Day(s)

Refers to calendar day(s) unless otherwise stated.

16. Displacement Receipt Point Capacity

Utility pipeline system improvements which increase the takeaway capacity from a Receipt Point but do not increase the overall downstream capacity of the Utility's pipeline system. The addition of Displacement Receipt Point Capacity increases the ability of the Utility to receive gas from a Receipt Point or zone in competition with other gas supplies delivered into the Utility's pipeline system.

17. End Use Customer (Customer)

Ultimate consumer of gas using Utility intrastate transportation services on either a bundled, commodity and intrastate transportation basis or an intrastate transportation only basis.

18. Expansion Receipt Point Capacity

Utility pipeline system improvements which increase the takeaway capacity from a Receipt Point and the overall downstream capacity of the Utility's pipeline system.

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STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

19. Gas

Any mixture of combustible and non-combustible gases used to produce heat by burning that can be accepted into a Utility pipeline without any compromise to operational safety or integrity. It shall include, but not be limited to, natural gas, renewable gas, biomethane, manufactured gas, or a mixture of any or all of the above. It shall meet the Utility's quality specifications, tariffs, rules, and other applicable regulations.

20. Group 1 Compound

Any Health Protective Constituent with a concentration below the Trigger Level.

21. Group 2 Compound

Any Health Protective Constituent with a concentration at or above the Trigger Level.

22. Hazardous Waste Landfill

For the purposes of this Rule, Hazardous Waste Landfill shall be given the same definition as provided in the California Health and Safety Code, including facilities permitted by the California Department of Toxic Substances Control.

23. Health Protective Constituents

1. Carcinogenic (cancer risk): Any Constituent determined by the State of California to cause cancer, as listed below in Table 1, Maximum Constituent Concentrations.

2. Non-carcinogenic (non-cancer risk or chronic risk): Any Constituent determined by the State of California to cause non-cancer health risk, as listed below in Table 1, Maximum Constituent Concentrations.

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Sheet 10

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

24. Heating Value

Total heating value of the gas normally measured on a gross dry higher heating value (HHV) basis (unless otherwise specified), and is defined as the number of British Thermal Units (Btu) evolved by the complete combustion, at constant pressure, of one standard cubic foot of gas with air, the temperature of the gas, air and products of combustion being 60 degrees Fahrenheit and all of the water formed by the combustion reaction being condensed to the liquid state.

25. Integrity Protective Constituents

Constituents that may impact the integrity of the Utility's pipeline system as listed in Table 1 Maximum Constituent Concentrations.

26. Interconnect Capacity

The metering, regulation and odorization daily capacity of the Utility Facilities, which is not necessarily the Takeaway Capacity and is not, nor is it intended to be, any commitment by Utility of Takeaway Capacity.

27. Interconnection Point

The point where the Utility Facilities and Interconnector's Facilities physically interconnect for delivery of Gas by Interconnector to, and receipt thereof by, Utility.

28. Interconnector's Facilities

The Gas pipeline facilities constructed and operated by an Interconnector up to the Interconnection Point.

29. Issued for Construction (IFC)

Drawings and documents which are used for construction work and activities.

RULE NO. 22

Sheet 11

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

30. Local Government Entity Renewable Gas Interconnector (Government Entity)

A city or county as defined by Article XI of the California Constitution.

31. Lower Action Level

The concentration or measured value of a Constituent, used to screen Renewable Gas during the initial gas quality review and ongoing periodic testing, requiring a shut-off of Renewable Gas supply if exceeded three times in a 12-month period.

32. Merchantability

The ability to purchase, sell, or market Gas. The Gas shall not contain dust, sand, dirt, gums, oils, microbes, bacteria, pathogens and/or other substances at levels that would be injurious to Utility facilities or which would present a health and/or safety hazard to Utility employees, customers, and/or the public or that would cause Gas to be unmarketable.

33. Million Standard cubic feet per day (MMScfd or MMScf/d)

Volumetric flow rate of Gas measured in millions of standard cubic feet per Day.

34. OEHHA

Office of Environmental Health Hazard Assessment of the California Environmental Protection Agency.

35. Raw Product Gas or Feedstock Gas

Gas from biogenic or other renewable sources, such as Biogas, biomass, or power to Gas from renewable electricity, before conditioning or upgrading to comply with this Rule's Gas quality specifications.

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Sheet 12

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

36. Receipt Point(s) or Points of Receipt

The place(s) where Interconnector delivers, or has delivered on its behalf, Gas into the Utility's pipeline system.

37. Renewable Gas

Gas from biogenic or other renewable sources, such as Biogas, biomass, or power to Gas from renewable electricity that has been conditioned or upgraded to comply with this Rule's Gas quality specifications, including Biomethane.

38. Renewable Gas Interconnector or Supplier (Interconnector)

Party physically interconnecting or interconnected with the Utility and effectuates the delivery of Renewable Gas through new or modified facilities, including any third-party delivering renewable gas into the utility pipeline either directly or through one or more intermediary pipelines, and effectuates the delivery of Renewable Gas through new or modified facilities.

39. Takeaway Capacity

Utility's physical takeaway capability downstream of the outlet of the Utility Facilities at the Interconnection Point. Takeaway Capacity for any particular day may be affected by physical flows from other Receipt Points, physical pipeline and/or storage conditions for that Day, and end-use demand on the Utility's pipeline system, and will be solely determined by the Utility.

40. Thousand Standard cubic feet per day (MScfd or MScf/d)

Volumetric flow of Gas measured in thousands of standard cubic feet per day.

41. Trigger Level

The concentration or measured value of a Constituent requiring additional periodic testing and analysis.

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Sheet 13

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

42. Upper Action Level

The concentration or measured value of a Constituent requiring an immediate shut-off of Renewable Gas supply.

43. Utility Facilities

Facilities owned and operated by Utility, including but not limited to, pipelines, appurtenant facilities, meters, regulators, quality measurement, other equipment and related system upgrades at and from the Interconnection Point, for receipt into Utility's pipeline system in the State of California pursuant to the Utility's interconnection agreement.

44. Wobbe Index

HHV / ($\sqrt{\text{Relative Density}_{\text{real}}}$) as defined in Section 2.20 in the 2009 American Gas Association (AGA) Report No. 5 Natural Gas Energy Measurement.

C. APPLICABILITY / OPEN ACCESS

1. Applicability

The Utility shall provide nondiscriminatory open access to its system to any party for the purpose of physically interconnecting with the Utility and effectuating the delivery of Renewable Gas, subject to the terms and conditions set forth in this Rule and the Utility's applicable interconnection, operating, and balancing agreements.

2. End Use Customer Priority

The interconnection and physical flows shall not jeopardize the integrity of, or interfere with, the normal operation of the Utility's pipeline system and provision of service to its End Use Customers.

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Sheet 35

**STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)**

K. RENEWABLE GAS QUALITY AND SPECIFICATIONS (Continued)

Table 1 (Continued) Maximum Constituent Concentrations						
Renewable Gas Injection Constituents				Testing for Gas Source		
	Trigger Level	Lower Action Level	Upper Action Level	Non-Hazardous Landfill	Dairies	Other ⁴
Integrity Protective Constituents³						
Ammonia	0.0004% (3 mg/m ³)	0.001% (7 mg/m ³)	0.0025% (18 mg/m ³)	■	■	■
Hydrogen	0.10%	1.0% ⁵	5.0% ⁵	■	■	■
Mercury	0.08 mg/m ³	TBD ⁵	TBD ⁵	■	■	■
Siloxanes	0.05 mg Si/m ³	0.1 mg Si/m ³	0.3 mg Si/m ³	■	■	■
Notes: 1. Base Utility Gas Specifications are identified in K1. 2. Health Protective Constituents (HPC) are shown in Table V-3 of the CARB/OEHHA Report. 3. Integrity Protective Constituents are shown in Section 4.4.3.3 of D.14-01-034 and identified as pipeline integrity protective constituents. 4. Other organic sources, includes all Biogas sources other than landfill and dairy manure, including but not limited to, a sewage treatment plant or wastewater plant ("Publicly Owned Treatment Works" or "POTW"). 5. The Lower and Upper Action Levels are specific to Biomethane pursuant to Decision 22-12-057 and will continue to be reviewed. 6. Testing requirement will be the stricter of the stated Renewable Gas values or other tariff requirements. 7. The Interconnector that meets this Rule's Section K.4.b certification requirements shall have reduced siloxanes testing requirements. Utility, at its discretion and at its own cost, may still test pursuant to Utility's applicable tariff rules. If the Utility test results show the siloxanes levels exceed the Lower Action Level, the full siloxanes testing requirements will apply as described in this Rule.						

ADVICE LETTER NO. 1251-G

ATTACHMENT B

Redlined Tariff Revisions

RULE NO. 22

Sheet 1

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM

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<u>254.</u>	<u>Integrity Protective Constituents</u>	10
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Sheet 2

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343	OEHHA	11
354	Raw Product Gas or Feedstock Gas	11
365	Receipt Point(s) or Points of Receipt	12
376	Renewable Gas	12
387	Renewable Gas Interconnector or Supplier (Interconnector)	12
398	Takeaway Capacity	12
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B. DEFINITIONS

6. Btu Zone or Area

A physically identifiable area of the gas transmission and/or distribution system in which the heating value of the Gas is measured and is representative of the entire area.

7. California Producer or Production

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9. CARB/OEHHA Report

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110. Commission (CPUC)

The Public Utilities Commission of the State of California, sometimes referred to as the Public Utilities Commission (PUC), CPUC, or Commission.

SOUTHWEST GAS CORPORATION
P.O. Box 98510
Las Vegas, Nevada 89193-8510
California Gas Tariff

Canceling _____

Cal. P.U.C. Sheet No. _____
Cal. P.U.C. Sheet No. _____

12. Conditioning or Upgrading

The removal of non-compliant components from Biogas or Raw Product Gas, or the addition of other gases, in order to meet Utility pipeline quality gas specifications. Blending is not considered to be a form of Conditioning or Upgrading.

Advice Letter No. _____ Issued by ~~Justin Lee Brown~~ Amy L. Timperley Date Filed _____ Effective _____
Decision No. _____ ~~Senior Vice President~~ Chief Regulatory Officer Resolution No. _____

SOUTHWEST GAS CORPORATION
P.O. Box 98510
Las Vegas, Nevada 89193-8510
California Gas Tariff

Canceling ~~4th-5th Revised~~ 3rd-4th Revised Cal. P.U.C. Sheet No. ~~279.4~~ 279.4

RULE NO. 22

Sheet 8

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

~~42-13.~~ 42-13. Conditioning or Upgrading Facilities

Interconnector's Facilities used for Conditioning and Upgrading.

~~43-14.~~ 43-14. Constituent of Concern (Constituent)

A chemical or compound that may negatively impact the Merchantability of Renewable Gas.

~~44-15.~~ 44-15. Day(s)

Refers to calendar day(s) unless otherwise stated.

~~45-16.~~ 45-16. Displacement Receipt Point Capacity

Utility pipeline system improvements which increase the takeaway capacity from a Receipt Point but do not increase the overall downstream capacity of the Utility's pipeline system. The addition of Displacement Receipt Point Capacity increases the ability of the Utility to receive gas from a Receipt Point or zone in competition with other gas supplies delivered into the Utility's pipeline system.

~~46-17.~~ 46-17. End Use Customer (Customer)

Ultimate consumer of gas using Utility intrastate transportation services on either a bundled, commodity and intrastate transportation basis or an intrastate transportation only basis.

~~47-18.~~ 47-18. Expansion Receipt Point Capacity

Utility pipeline system improvements which increase the takeaway capacity from a Receipt Point and the overall downstream capacity of the Utility's pipeline system.

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Advice Letter No. 14471251 Issued by ~~Justin Lee Brown~~ Amy L. Tipton Date Filed ~~October 7, 2020~~ February 17, 2023
Decision No. 28-08-02522-12-057 Senior Vice President/Chief Regulatory Officer Effective ~~October 28, 2020~~ February 17, 2023 Resolution No. _____

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

~~18-19~~ 19. Gas

Any mixture of combustible and non-combustible gases used to produce heat by burning that can be accepted into a Utility pipeline without any compromise to operational safety or integrity. It shall include, but not be limited to, natural gas, renewable gas, biomethane, manufactured gas, or a mixture of any or all of the above. It shall meet the Utility's quality specifications, tariffs, rules, and other applicable regulations.

~~19-20~~ 20. Group 1 Compound

Any Health Protective Constituent with a concentration below the Trigger Level.

~~20-21~~ 21. Group 2 Compound

Any Health Protective Constituent with a concentration at or above the Trigger Level.

~~21-22~~ 22. Hazardous Waste Landfill

For the purposes of this Rule, Hazardous Waste Landfill shall be given the same definition as provided in the California Health and Safety Code, including facilities permitted by the California Department of Toxic Substances Control.

~~22-23~~ 23. Health Protective Constituents

1. Carcinogenic (cancer risk): Any Constituent determined by the State of California to cause cancer, as listed below in Table 1, Maximum Constituent Concentrations.

2. Non-carcinogenic (non-cancer risk or chronic risk): Any Constituent determined by the State of California to cause non-cancer health risk, as listed below in Table 1, Maximum Constituent Concentrations.

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SOUTHWEST GAS CORPORATION
P.O. Box 98510
Las Vegas, Nevada 89193-8510
California Gas Tariff

Canceling 3rd 4th Revised Cal. P.U.C. Sheet No. 279.5
2nd 3rd Revised Cal. P.U.C. Sheet No. 279.5

RULE NO. 22

Sheet 10

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

23-24. Heating Value

Total heating value of the gas normally measured on a gross dry higher heating value (HHV) basis (unless otherwise specified), and is defined as the number of British Thermal Units (Btu) evolved by the complete combustion, at constant pressure, of one standard cubic foot of gas with air, the temperature of the gas, air and products of combustion being 60 degrees Fahrenheit and all of the water formed by the combustion reaction being condensed to the liquid state.

24-25. Integrity Protective Constituents

Constituents that may impact the integrity of the Utility's pipeline system as listed in Table 1 Maximum Constituent Concentrations.

25-26. Interconnect Capacity

The metering, regulation and odorization daily capacity of the Utility Facilities, which is not necessarily the Takeaway Capacity and is not, nor is it intended to be, any commitment by Utility of Takeaway Capacity.

26-27. Interconnection Point

The point where the Utility Facilities and Interconnector's Facilities physically interconnect for delivery of Gas by Interconnector to, and receipt thereof by, Utility.

27-28. Interconnector's Facilities

The Gas pipeline facilities constructed and operated by an Interconnector up to the Interconnection Point.

28-29. Issued for Construction (IFC)

Drawings and documents which are used for construction work and activities.

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Advice Letter No. 14471251 Issued by Justin Lee Brown October 7, 2020
Decision No. 28-08-02522-12-057 Senior Vice President October 28, 2020 February 17, 2023
Chief Regulatory Officer Effective
Resolution No. T

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

29-30. Local Government Entity Renewable Gas Interconnector (Government Entity)

A city or county as defined by Article XI of the California Constitution.

30-31. Lower Action Level

The concentration or measured value of a Constituent, used to screen Renewable Gas during the initial gas quality review and ongoing periodic testing, requiring a shut-off of Renewable Gas supply if exceeded three times in a 12-month period.

31-32. Merchantability

The ability to purchase, sell, or market Gas. The Gas shall not contain dust, sand, dirt, gums, oils, microbes, bacteria, pathogens and/or other substances at levels that would be injurious to Utility facilities or which would present a health and/or safety hazard to Utility employees, customers, and/or the public or that would cause Gas to be unmarketable.

32-33. Million Standard cubic feet per day (MMScfd or MMScf/d)

Volumetric flow rate of Gas measured in millions of standard cubic feet per Day.

33-34. OEHHA

Office of Environmental Health Hazard Assessment of the California Environmental Protection Agency.

34-35. Raw Product Gas or Feedstock Gas

Gas from biogenic or other renewable sources, such as Biogas, biomass, or power to Gas from renewable electricity, before conditioning or upgrading to comply with this Rule's Gas quality specifications.

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STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

35-36. Receipt Point(s) or Points of Receipt

The place(s) where Interconnector delivers, or has delivered on its behalf, Gas into the Utility's pipeline system.

36-37. Renewable Gas

Gas from biogenic or other renewable sources, such as Biogas, biomass, or power to Gas from renewable electricity that has been conditioned or upgraded to comply with this Rule's Gas quality specifications, including Biomethane.

37-38. Renewable Gas Interconnector or Supplier (Interconnector)

Party physically interconnecting or interconnected with the Utility and effectuates the delivery of Renewable Gas through new or modified facilities, including any third-party delivering renewable gas into the utility pipeline either directly or through one or more intermediary pipelines, and effectuates the delivery of Renewable Gas through new or modified facilities.

38-39. Takeaway Capacity

Utility's physical takeaway capability downstream of the outlet of the Utility Facilities at the Interconnection Point. Takeaway Capacity for any particular day may be affected by physical flows from other Receipt Points, physical pipeline and/or storage conditions for that Day, and end-use demand on the Utility's pipeline system, and will be solely determined by the Utility.

39-40. Thousand Standard cubic feet per day (MScfd or MScf/d)

Volumetric flow of Gas measured in thousands of standard cubic feet per day.

40-41. Trigger Level

The concentration or measured value of a Constituent requiring additional periodic testing and analysis.

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SOUTHWEST GAS CORPORATION
P.O. Box 98510
Las Vegas, Nevada 89193-8510
California Gas Tariff

Canceling 3rd 4th Revised Cal. P.U.C. Sheet No. 279.8
2nd 3rd Revised Cal. P.U.C. Sheet No. 279.8

RULE NO. 22

Sheet 13

STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)

B. DEFINITIONS (Continued)

41.42. Upper Action Level

The concentration or measured value of a Constituent requiring an immediate shut-off of Renewable Gas supply.

42.43. Utility Facilities

Facilities owned and operated by Utility, including but not limited to, pipelines, appurtenant facilities, meters, regulators, quality measurement, other equipment and related system upgrades at and from the Interconnection Point, for receipt into Utility's pipeline system in the State of California pursuant to the Utility's interconnection agreement.

43.44. Wobbe Index

HHV / ($\sqrt{\text{Relative Density}_{\text{real}}}$) as defined in Section 2.20 in the 2009 American Gas Association (AGA) Report No. 5 Natural Gas Energy Measurement.

C. APPLICABILITY / OPEN ACCESS

1. Applicability

The Utility shall provide nondiscriminatory open access to its system to any party for the purpose of physically interconnecting with the Utility and effectuating the delivery of Renewable Gas, subject to the terms and conditions set forth in this Rule and the Utility's applicable interconnection, operating, and balancing agreements.

2. End Use Customer Priority

The interconnection and physical flows shall not jeopardize the integrity of, or interfere with, the normal operation of the Utility's pipeline system and provision of service to its End Use Customers.

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Advice Letter No. 14471251 Issued by Justin Lee Brown October 7, 2020 February 17, 2023
Decision No. 28.08.02522.12.057 Amy L. T... October 28, 2020 February 17, 2023
Senior Vice President Chief Regulatory Officer Resolution No. T

RULE NO. 22

Sheet 35

**STANDARD RENEWABLE GAS INTERCONNECTIONS
TO THE UTILITY'S PIPELINE SYSTEM (Continued)**

K. RENEWABLE GAS QUALITY AND SPECIFICATIONS (Continued)

Table 1 (Continued) Maximum Constituent Concentrations						
Renewable Gas Injection Constituents				Testing for Gas Source		
	Trigger Level	Lower Action Level	Upper Action Level	Non-Hazardous Landfill	Dairies	Other ⁴
Integrity Protective Constituents³						
Ammonia	0.0004% (3 mg/m ³)	0.001% (7 mg/m ³)	0.0025% (18 mg/m ³)	■	■	■
Hydrogen	0.10%	TBD <u>1.0%</u> ⁵	TBD <u>5.0%</u> ⁵	■	■	■
Mercury	0.08 mg/m ³	TBD ⁵	TBD ⁵	■	■	■
Siloxanes	0.05 mg Si/m ³	0.1 mg Si/m ³	0.3 mg Si/m ³	■	■	■

Notes:

- Base Utility Gas Specifications are identified in K1.
- Health Protective Constituents (HPC) are shown in Table V-3 of the CARB/OEHHA Report.
- Integrity Protective Constituents are shown in Section 4.4.3.3 of D.14-01-034 and identified as pipeline integrity protective constituents.
- Other organic sources, includes all Biogas sources other than landfill and dairy manure, including but not limited to, a sewage treatment plant or wastewater plant ("Publicly Owned Treatment Works" or "POTW").
- ~~The Lower and Upper Action Levels will be reviewed in the next update proceeding. The Lower and Upper Action Levels are specific to Biomethane pursuant to Decision 22-12-057 and will continue to be reviewed.~~
- Testing requirement will be the stricter of the stated Renewable Gas values or other tariff requirements.
- The Interconnector that meets this Rule's Section K.4.b certification requirements shall have reduced siloxanes testing requirements. Utility, at its discretion and at its own cost, may still test pursuant to Utility's applicable tariff rules. If the Utility test results show the siloxanes levels exceed the Lower Action Level, the full siloxanes testing requirements will apply as described in this Rule.



ADVICE LETTER SUMMARY

ENERGY UTILITY



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

Company name/CPUC Utility No.:

Utility type:

ELC GAS WATER
 PLC HEAT

Contact Person:

Phone #:

E-mail:

E-mail Disposition Notice to:

EXPLANATION OF UTILITY TYPE

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

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #:

Tier Designation:

Subject of AL:

Keywords (choose from CPUC listing):

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date:

No. of tariff sheets:

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

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:

Service affected and changes proposed¹:

Pending advice letters that revise the same tariff sheets:

¹Discuss in AL if more space is needed.

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

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name:
Title:
Utility Name:
Address:
City: State:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

Name:
Title:
Utility Name:
Address:
City: State:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	