#### PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3298



December 27, 2018

**Advice Letter 1087** 

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

SUBJECT: Annual Regulatory Gas Account Balance Update for Rates Effective January 1, 2019

Dear Mr. Brown:

Advice Letter 1087 is effective as of January 1, 2019. All balances in the accounts authorized for recovery are subject to audit, verification and adjustment.

Sincerely,

Edward Randolph

Director, Energy Division

Edward Randofate



November 30, 2018

ATTN:

Tariff Unit, Energy Division

California Public Utilities Commission 505 Van Ness Avenue, Room 4005

San Francisco, CA 94102

Subject: Southwest Gas Corporation (U 905 G)

Advice Letter No. 1087

Enclosed herewith is one (1) copy of Southwest Gas Corporation's Advice Letter No. 1087, together with California Gas Tariff Sheet Nos. 65-73.

Sincerely,

Valerie J. Ontiveroz

Regulatory Manager/California

VJO:jjp **Enclosures** 



### **SOUTHWEST GAS CORPORATION**

Advice Letter No. 1087

November 30, 2018

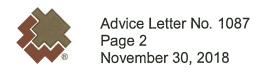
### PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

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

Cal. P.U.C. Sheet No.	California Gas Tariff  Title of Sheet	Canceling Cal. P.U.C. Sheet No.
117th Revised Sheet No. 65	Statement of Rates - Rates Applicable to Southern California Service Area	114th Revised Sheet No. 65
118th Revised Sheet No. 66	Statement of Rates - Rates Applicable to Southern California Service Area	115th Revised Sheet No. 66
59th Revised Sheet No. 67	Statement of Rates - Rates Applicable to Southern California Service Area	57th Revised Sheet No. 67
114th Revised Sheet No. 68	Statement of Rates - Rates Applicable to Northern California Service Area	111th Revised Sheet No. 68
116th Revised Sheet No. 69	Statement of Rates - Rates Applicable to Northern California Service Area	113th Revised Sheet No. 69
74th Revised Sheet No. 70	Statement of Rates - Rates Applicable to Northern California Service Area	72nd Revised Sheet No. 70
116th Revised Sheet No. 71	Statement of Rates - Rates Applicable to South Lake Tahoe Service Area	113th Revised Sheet No. 71
53rd Revised Sheet No. 72	Statement of Rates - Rates Applicable to South Lake Tahoe Service Area	50th Revised Sheet No. 72
13th Revised Sheet No. 73	Statement of Rates - Rates Applicable to South Lake Tahoe Service Area	11th Revised Sheet No. 73

### **Purpose**

The purpose of this submission is to update the following: 1) balancing account surcharges related to the Fixed Cost Adjustment Mechanism (FCAM) and the Interstate Transportation Cost Adjustment Mechanism (ITCAM); 2) transportation and storage rates (Annual Adjustments); 2) forecasts and actual Greenhouse Gas (GHG) Costs and Allowance Revenue Proceeds in accordance with Decision (D.) 15-10-032, as modified



### Purpose (Continued)

by D.18-03-017; and 3) authorized cost forecasts related to Southwest Gas' implementation of its Natural Gas Leak Abatement Program as authorized in Ordering Paragraph (OP) 6 in Resolution G-3538.

#### **Annual Balancing Account Updates**

### 1) FCAM, ITCAM and Transportation and Storage Rates

The calculation of Southwest Gas' 2019 FCAM and ITCAM balancing account surcharges and upstream transportation and storage rates are contained in Schedules I and II (Attachment 1).

### 2) GHG Costs, Allowance Proceeds and California Climate Credit

Pursuant to OP 10 in D.18-03-017:

On a going forward basis, Pacific Gas and Electric Company, Southern California Gas Company, San Diego Gas & Electric Company and Southwest Gas Company must file forecast and actual greenhouse costs and proceeds pursuant to the templates and timeframes adopted in Decision 15-10-032.

In D.15-10-032, the Commission resolved Phase 2 issues in Rulemaking (R.) 14-03-003,<sup>2</sup> and directed the respondent natural gas utilities to utilize the tables provided in Appendix A to D.15-10-032 to annually forecast its GHG compliance costs and allowance proceeds<sup>3</sup> and also include a "...narrative summary describing activities completed in the current year, including any deviations from what was forecasted for the current year, and projecting activities in the forecast year..." Accordingly, as set forth below, Southwest Gas has utilized the Tables A through E of Appendix A in D.15-10-032 (Attachment 2).

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<sup>&</sup>lt;sup>1</sup> D.18-03-017, at pg. 56.

<sup>&</sup>lt;sup>2</sup> R.14-03-003, "Order Instituting Rulemaking to Address Natural Gas Distribution Utility Cost and Revenue Issues Associated with Greenhouse Gas Emissions," adopted by the Commission on March 12, 2014

<sup>&</sup>lt;sup>3</sup> OP 6 in D.15-10-032 directs the natural gas utilities to utilize the calculations, methodologies and procedures adopted in Appendix A to D.15-10-032 to implement the California Climate Credit and GHG compliance costs and include the Appendix A tables in their annual natural gas true-up advice letters that set transportation rates.

<sup>&</sup>lt;sup>4</sup> D.15-10-032, at pg. 19.



Advice Letter No. 1087 Page 3 November 30, 2018

#### Table A – Forecasted Revenue Requirement

Table A illustrates Southwest Gas' calculation of the forecasted revenue requirement associated with its recorded GHG compliance as offset by the revenue requirement for the Company's GHG compliance costs which was included in rates beginning July 1, 2018.<sup>5</sup>

Southwest Gas considers certain information contained in Table A confidential, including Gross Throughput (Line 1), Throughput to Covered Entities (Line 2), and is providing this information to the Energy Division confidentially under separate cover pursuant to D.15-10-032 and D.16-08-024.

#### Table B – Recorded GHG Costs

Southwest Gas has included recorded costs in Table B utilizing the weighted average cost methodology. Because Table B contains confidential information, it is being provided to the Energy Division confidentially under separate cover pursuant to D.15-10-032 and D.16-08-024.

#### Table C - GHG Allowance Proceeds

Under the Cap-and-Trade Program, the California Air Resources Board (CARB) annually allocates GHG allowances to natural gas utilities for the benefit of their ratepayers, and CARB requires the utilities to consign a minimum percentage of the allowances for sale in CARB's allowance auctions, with consignment requirements beginning at 25 percent in 2015 and increasing 5 percent annually through 2020.<sup>6</sup> In D.15-10-032 and D.18-03-017, the Commission found it appropriate to return allowance proceeds received from the sale of GHG allowances to residential customers only as the on-bill California Climate Credit annually each April, with the exception of 2018, in which the California Climate Credit shall be distributed in October.<sup>7</sup> The California Climate Credit is to be calculated as the GHG allowance proceeds remaining after subtracting Southwest Gas' outreach and administrative expenses from the total allowance proceeds and dividing the result by the number of residential households.<sup>8</sup> Southwest Gas' administrative and outreach expenses are discussed below. Southwest Gas forecasts approximately \$4.7 million net GHG allowance proceeds available for return to customers in 2019. Southwest Gas' 2019 California Climate Credit is \$24.86.

### Table D – Outreach and Administrative Expenses

Southwest Gas' Outreach and Education Plan (Plan) was approved with a total forecasted cost of \$65,500.9 Pursuant to OP 12 in D.18-03-17, the natural gas utilities were directed to begin their education and outreach efforts as soon as practicable after the issuance of the decision. Southwest Gas implemented its Plan to coincide with the distribution of its California Climate Credit on October 1, 2018.

<sup>&</sup>lt;sup>5</sup> Advice Letter No. 1072, approved June 18, 2018.

<sup>&</sup>lt;sup>6</sup> D.15-10-032, at pg. 5.

<sup>&</sup>lt;sup>7</sup> D.18-03-017, at pgs. 2 and 40; OP 8, at pg. 55.

<sup>&</sup>lt;sup>8</sup> D.15-10-032, at pg. 37.

<sup>&</sup>lt;sup>9</sup> Advice Letter No. 994, approved December 30, 2015.

<sup>&</sup>lt;sup>10</sup> D.18-03-017, at pg. 56.



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#### **Table D – Outreach and Administrative Expenses** (Continued)

Southwest Gas' Plan consisted of the following:

- Southwest Gas Website Update
- Email blast
- Bill insert
- On-Bill messaging
- On-hold phone messaging

To date, Southwest Gas has incurred minimal costs related to its Plan (\$2,037). In 2019, Southwest Gas anticipates incurring expenses related to email blasts and bill inserts (\$8,000). Additionally, due to the timing of D.18-03-017, Southwest Gas' determined to delay its Post Phone Survey until 2019 (\$55,000). Therefore, Southwest Gas forecasts its 2019 Plan costs to be approximately \$63,000.

### Table E - Compliance Obligation Over Time

Southwest Gas has included its 2015 through 2017 verified emissions in Table E.

### Compliance Instrument Procurement Limit

The Commission adopted a GHG compliance instrument procurement limit formula for the natural gas utilities in D.14-12-040. Pursuant to D.15-10-032, procurement limits shall be provided to the Energy Division confidentially. As such, Southwest Gas will provide its annual GHG procurement limit to the Energy Division under separate cover.

#### 3) Natural Gas Leak Abatement Program Costs

Resolution G-3538 approved Southwest Gas 2018 and 2019 forecasted costs and applicable rates by balancing account as set forth in Advice Letter Nos. 1055-A and 1055-B.<sup>11</sup> Pursuant to OP 6 in Resolution G-3538:

For 2019 cost recovery of the Natural Gas Leak Abatement Program Balancing Account, Pacific Gas and Electric Company, San Diego Gas & Electric Company, Southern California Gas Company, and Southwest Gas Corporation will include the authorized cost forecast and cost limit in their gas transportation rates in connection with their consolidated rate update submittal for rates effective January 1, 2019. The balance in the two-way balancing account shall be subject to refund or recovery from customers in the following year through the Annual Gas True up advice letter filing.

<sup>&</sup>lt;sup>11</sup> In accordance with OP 5 in Resolution G-3538, Southwest Gas submitted Advice Letter No. 1085 requesting authorization to include its 2018 forecasted costs beginning January 1, 2019.



Advice Letter No. 1087 Page 5 November 30, 2018

Accordingly, Southwest Gas requests authorization to include its 2019 forecasted costs related to the implementation of its Natural Gas Leak Abatement Program beginning January 1, 2019 along with its 2018 forecasted costs as submitted in Advice Letter No. 1085. The proposed rates are set forth in Attachment 3.

The combined effect of the balancing account updates noted herein will result in an annual revenue increase of approximately \$13,108,220 or 10.77 percent in the Southern California Division, a decrease of \$395,077 or 1.28 percent in the Northern California Division, and a decrease of \$899,120 or 3.96 percent in the South Lake Tahoe District.

#### **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 GO 96-B. Southwest Gas respectfully requests the adjustments to balancing account surcharges, as well as updates to the upstream pipeline transportation and storage rates, proposed herein be approved December 30, 2018, which is thirty (30) calendar days from the date of submission, with rates effective January 1, 2019.

#### **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 submission 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
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 Senior Vice President/General Counsel Southwest Gas Corporation P.O. Box 98510 Las Vegas, NV 89193-8510

Email: justin.brown@swgas.com

Facsimile: 702-364-3452



Advice Letter No. 1087 Page 6 November 30, 2018

### **Notice**

Pursuant to Energy Industry Rule 3.1(1), Southwest Gas is exempt from the notice requirements set forth in General Rule 4.2 in GO 96-B since the adjustments proposed herein are being submitted pursuant to Southwest Gas' approved California gas tariff, D.15-10-032, D.18-03-017 and Resolution G-3538.

### **Service**

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

Communications regarding this submission 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

Email: valerie.ontiveroz@swgas.com

Justin Lee Brown

Respectfully submitted,

SOUTHWEST GAS CORPORATION

Attachments

### **Distribution List**

Advice Letter No. 1087

In conformance with GO 96-B, General Rule 4.3

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

Elizabeth Echols, Director
Public Advocates Office
California Public Utilities Commission
elizabeth.echols@cpuc.ca.gov

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
Public Advocates Office
California Public Utilities Commission
robert.pocta@cpuc.ca.gov

Nathaniel Skinner
Public Advocates Office
California Public Utilities Commission
nathaniel.skinner@cpuc.ca.gov

Pearlie Sabino
Public Advocates Office
California Public Utilities Commission
pearlie.sabino@cpuc.ca.gov



### California Public Utilities Commission

### ADVICE LETTER UMMARY



MUST RE COMPLETED BY LIT	ILITY (Attach additional pages as needed)					
Company name/CPUC Utility No.: Southwest Gas Corporation (U 905 G)						
Utility type:  ☐ ELC	Contact Person: Valerie J. Ontiveroz Phone #: 702 876-7323 E-mail: valerie.ontiveroz@swgas.com E-mail Disposition Notice to: valerie.ontiveroz@swgas.com					
EXPLANATION OF UTILITY TYPE  ELC = Electric GAS = Gas WATER = Water  PLC = Pipeline HEAT = Heat	(Date Submitted / Received Stamp by CPUC)					
Advice Letter (AL) #: 1087	Tier Designation: Tier 1					
GHG Costs and Allowance Revenu	es, adjust transportation and storage rates, update forecasts and actual de Proceeds, and include the 2019 authorized cost forecasts related to all Gas Leak Abatement Program, with all rates effective January 1, 2019.					
Keywords (choose from CPUC listing): Prelimina AL Type: Monthly Quarterly Annu If AL submitted in compliance with a Commissi						
Does AL replace a withdrawn or rejected AL?	If so, identify the prior AL: Not applicable					
Summarize differences between the AL and th	ne prior withdrawn or rejected AL: Not Applicable					
Confidential treatment requested? Yes	<b>√</b> No					
	nation: vailable to appropriate parties who execute a  ontact information to request nondisclosure agreement/					
Resolution required? Yes V No						
Requested effective date: 1/1/19	No. of tariff sheets: 9					
Estimated system annual revenue effect (%): 1	0.77% SCA, (1.28)% NCA, (3.96)% SLT					
Estimated system average rate effect (%): 10.7	7% SCA, (1.28)% NCA, (3.96)% SLT					
When rates are affected by AL, include attach (residential, small commercial, large C/I, agric	nment in AL showing average rate effects on customer classes ultural, lighting).					
Tariff schedules affected: Not applicable						
Service affected and changes proposed <sup>1:</sup> See	'Subject of AL' above					
Pending advice letters that revise the same tal	riff sheets: AL 1085, AL 1086					

### 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: <a href="mailto:EDTariffUnit@cpuc.ca.gov">EDTariffUnit@cpuc.ca.gov</a>

Name: Mr. Justin Lee Brown

Title: Senior Vice-President/General Counsel Utility Name: Southwest Gas Corporation

Address: P. O. Box 98510

City: Las Vegas State: Nevada

Telephone (xxx) xxx-xxxx: 702-876-7183 Facsimile (xxx) xxx-xxxx: 702-364-3452

Email: justin.brown@swgas.com

Name:

Title:

Utility Name:

Address:

City: State: Nevada

Telephone (xxx) xxx-xxxx: Facsimile (xxx) xxx-xxxx:

Email:

California Gas Tariff

_	117th Revised Cal. P.U.C. Sheet No.	65
Canceling	114th Revised Cal. P.U.C. Sheet No.	65

### STATEMENT OF RATES RATES APPLICABLE TO SOUTHERN CALIFORNIA SERVICE AREA [1]

		0				
		Charges [2] and	Subtotal Gas			Effective
Schedule No. and Type of Charge	Margin	Adjustments	Usage Rate	CPUC PPP	Gas Cost	Sales Rate
GS-10-Residential Gas Service						
Basic Service Charge	\$5.00					\$5.00
Cost per Therm						
Baseline Quantities	\$ .71361	\$ .32078	\$1.03439	\$ .00166 \$ .11505	\$ .27564	\$1.42674
Tier II	\$ .88488	.32078	1.20566	.00166 .11505	.27564	1.59801
GS-11-Residential Air-Conditioning Gas Service						
Basic Service Charge	\$5.00					\$5.00
Cost per Therm						
Tier I	\$ .71361	\$ .32078	\$1.03439	\$ .00166 \$ .11505	\$ .27564	\$1.42674 I
Tier II	.88488	.32078	1.20566	.00166 .11505	.27564	1.59801 l
Air-Conditioning	\$ .35681	.32078	.67759	.00166 .11505	.27564	1.06994 l
GS-12-CARE Residential Gas Service						
Basic Service Charge	\$4.00					\$4.00
Cost per Therm						
Baseline Quantities	\$ .45160	\$ .32078	\$ .77238	\$ .00166 \$ .01587	\$ .27564	\$1.06555 I
Tier II	.58862	.32078	.90940	.00166 .01587	.27564	\$1.20257 I
GS-15-Secondary Residential Gas Service						
Basic Service Charge	\$6.00					\$6.00
Cost per Therm	\$1.09366	\$ .32078	\$1.41444	\$ .00166 \$ .11505	\$ .27564	\$1.80679 I
GS-20-Multi-Family Master-Metered Gas Service	•	•	Ť	, ,	,	,
Basic Service Charge	\$25.00					\$25.00
Cost per Therm	φ25.00					\$25.00
Baseline Quantities	\$ .71361	\$ .32078	\$1.03439	\$ .00166 \$ .11505	\$ .27564	\$1.42674
Tier II	.88488	.32078	1.20566	.00166 .11505	.27564	1.59801
1.2	.00+00	.52010	1.20000	.00100 .11000	.27304	1.55001
GS-25-Multi-Family Master-Metered Gas Service-Submetered						
Basic Service Charge	\$25.00					\$25.00
Cost per Therm	Ψ23.00					Ψ25.00
Baseline Quantities	\$ .71361	\$ .32078	\$1.03439	\$ .00166 \$ .11505	\$ .27564	\$1.42674
Tier II	.88488	.32078	1.20566	.00166 .11505	.27564	1.59801
Submetered Discount per Occupied Space	(\$7.69)	.02070	1.20000	.00100 .11000	.27004	(\$7.69)
	(ψ7.00)					(ψ1.00)
GS-35-Agriculture Employee Housing & Nonprofit Group Living Facility Gas Service						
Basic Service Charge	\$8.80					\$8.80
Cost per Therm	ψ0.00					Ψ0.00
First 100	\$ .38944	\$ .32078	\$ .71022	\$ .00166 \$ .01587	\$ .27564	\$1.00339
Next 500	.25568	.32078	.57646	.00166 .01587	.27564	.86963
Next 2,400	.14868	.32078	.46946	.00166 .01587	.27564	.76263
Over 3,000	.02277	.32078	.34355	.00166 .01587	.27564	.63672
GS-40-Core General Gas Service		.020.0	.0.000			.000.2
(non-Covered Entities)						
Basic Service Charge	\$11.00					\$11.00
Transportation Service Charge	\$780.00					\$780.00
Cost per Therm	7. 55.00					Ţ. 33.30
First 100	\$ .63590	\$ .32078	\$ .95668	\$ .00166 \$ .11505	\$ .27564	\$1.34903 I
Next 500	\$ .46871	.32078	.78949	.00166 .11505	.27564	1.18184 I
Next 2,400	\$ .33496	.32078	.65574	.00166 .11505	.27564	1.04809
Over 3,000	\$ .17757	.32078	.49835	.00166 .11505	.27564	.89070 I
		-				

		Issued by	Date Filed November 30, 2018
Advice Letter No	1087	Justin Lee Brown	Effective
Decision No		Senior Vice President	Resolution No.

Las Vegas, Nevada 89193-8510 California Gas Tariff 118th Revised Cal. P.U.C. Sheet No. 66
115th Revised Cal. P.U.C. Sheet No. 66

### STATEMENT OF RATES RATES APPLICABLE TO SOUTHERN CALIFORNIA SERVICE AREA [1]

Schedule No. and Type of Charge	Margin	Charges [2] and Adjustments	Subtotal Gas Usage Rate	Other Surcharges CPUC PPP	Gas Cost	Effective Sales Rate
GS-40-Core General Gas Service						
(Covered Entities)	_					
Basic Service Charge	\$11.00					\$11.00
Transportation Service Charge	\$780.00					\$780.00
Cost per Therm	Φ 00500	<b>A</b> 00004	<b>A COOC</b> 4	A 00400 A 44505	Φ 07504	Φ 4 00000
First 100	\$ .63590	\$ .26801	\$ .90391	\$ .00166 \$ .11505	\$ .27564	\$ 1.29626
Next 500 Next 2,400	\$ .46871 \$ .33496	.26801 .26801	.73672 .60297	.00166 .11505 .00166 .11505	.27564 .27564	1.12907 .99532
Over 3,000	\$ .33490	.26801	.44558	.00166 .11505	.27564	.83793
GS-50-Core Natural Gas Service for Motor Vehicles						
Basic Service Charge	\$25.00					\$25.00
Cost per Therm	\$ .12468	\$ .32078	\$ .44546	\$ .00166 \$ .11505	\$ .27564	\$ .83781
GS-60-Core Internal Combustion Engine Gas Service						
Basic Service Charge	\$25.00					\$25.00
Cost per Therm	\$ .18581	\$ .32078	\$ .50659	\$ .00166 \$ .11505	\$ .27564	\$ .89894
GS-LUZ-Solar Electric Generation Gas Service						
Basic Service Charge	\$50.00					\$50.00
Cost per Therm	\$ .05338	\$ .10612	\$ .15950	\$ .00166		\$ .16116
GS-66-Core Small Electric Power Generation						
Gas Service						
Basic Service Charge	\$25.00					\$25.00
Cost per Therm	\$ .26781	\$ .32078	\$ .58859	\$ .00166	\$ .27564	\$ .86589
GS-70-Noncore General Gas Transportation						
Service						
Basic Service Charge	\$100.00					\$100.00
Transportation Service Charge	\$780.00					\$780.00
Cost per Therm	\$ .13597	\$ .24536	\$ .38133	\$ .00166 \$ .11505		\$ .49804
GS-VIC City of Victorville Gas Service						
Basic Service Charge	\$11.00					\$ 11.00
Transportation Service Charge	\$780.00					\$780.00
Cost per Therm	\$ .37960	\$ .32078	\$ .70038	\$ .00166	\$ .27564	\$ .97768
TFF-Transportation Franchise Fee Surcharge						
Provision						
TFF Surcharge per Therm	_					\$ .00340
TDS – Transportation Distribution System						
Shrinkage Charge						
TDS Charge per Therm	_					\$ .00209
MHPS-Master-Metered Mobile Home Park						
Safety Inspection Provision						
MHPS Surcharge per Space per Month	_					\$ .21000
2 23.3go po. opaco por month						Ţ

		Issued by	Date Filed November 30, 2018
Advice Letter No	1087	Justin Lee Brown	Effective
Decision No.		Senior Vice President	Resolution No.

Las Vegas, Nevada 89193-8510 California Gas Tariff

D

59th Revised	Cal. P.U.C. Sheet No	67
57th Revised	Cal. P.U.C. Sheet No.	67

Ν

### STATEMENT OF RATES RATES APPLICABLE TO SOUTHERN CALIFORNIA DIVISION SCHEDULES [1]

- [1] Customers taking only transportation service will pay the Effective Sales Rate less the Interstate Reservation and Gas Cost components of the Effective Sales Rate, plus a Transportation Service Charge of \$780 per month and an amount for distribution shrinkage calculated by multiplying the currently effective Gas Cost rate per therm by the Lost and Unaccounted For Gas percentage of 0.76%. The PGA Balancing Account Adjustment is applicable to customers converting from sales service to transportation service for a period of 12 months. The volume charge for customer-secured natural gas transportation will also be subject to the TFF Surcharge.
- [2] The Charges and Adjustments applicable to each tariff rate schedule includes the following components:

Charges and Adjustments Description	GS-10, GS-11, GS-12, GS-15, GS-20, GS-25, GS-35,	GS-40 (non- Covered Entities), GS-50, GS-60, GS-66	GS-40, (Covered Entities)	GS-70	GS-VIC	GS-LUZ
Upstream Intrastate Charges						
Storage	\$	.01586	\$ .01586		\$ .01586	
Variable		.07520	.07520	\$ .07520	.07520	
Upstream Interstate Reservation Charges		.05394	.05394		.05394	
IRRAM Surcharge		.00000	.00000	.00000		
Balancing Account Adjustments						
FCAM*		.11098	.11098	.10536	.11098	\$ .10536
ITCAM		.00890	.00890	.00890	.00890	
GHGBA**						
Non-Covered Entities [a]		.05353		.05353	.05353	
Covered Entities [a]			.00076			.00076
NERBA		.00057	.00057	.00057	.00057	
NGLAPBA		.00180	.00180	.00180	.00180	
Total Rate Adjustment	\$ .	.32078	\$ .26801	\$ .24536	\$ .32078	\$ .10612

<sup>\*</sup> The FCAM surcharge includes an amount of \$.10536 per therm related to the difference between Southwest Gas' authorized margin and recorded revenues intended to recover these costs.

		Issued by	Date Filed November 30, 2018	
dvice Letter No	1087	Justin Lee Brown	Effective	
ecision No		Senior Vice President	Resolution No.	

<sup>\*\*</sup> Pursuant to D.15-10-032, Company costs incurred to comply with the California Air Resources Board (ARB) natural gas supplier Capand-Trade Program are to be included in transportation rates and recovered from Non-Covered Entities. Covered Entities, who are directly regulated by the ARB, are only responsible for paying for emission costs related to lost and unaccounted for gas (LUAF).

<sup>[</sup>a] Pursuant to D.18-03-017, Covered and non-Covered entities have a component to recover the 2015-2017 net compliance costs and proceeds amortized over a twelve month period. Also included are the 2018 GHG costs which are amortized over an eighteen month period.

California Gas Tariff

114th Revised	Cal. P.U.C. Sheet No.	68
111th Revised	Cal. P.U.C. Sheet No.	68

### STATEMENT OF RATES RATES APPLICABLE TO NORTHERN CALIFORNIA SERVICE AREA [1] [2]

		Charges [3]	Subtotal Gas	Other Su	roh	orgos			Effective	
Schedule No. and Type of Charge	Margin		Usage Rate	CPUC	ICH	PPP	G	as Cost	Sales Rate	
GN-10-Residential Gas Service Basic Service Charge	\$5.00								\$5.00	
Cost per Therm Baseline Quantities Tier II	\$ .75614 .86695	\$ .14419 .14419	\$ .90033 1.01114	\$ .00166 .00166	\$	.02841 .02841	\$	.28918 .28918	\$1.21958 1.33039	R R
GN-12-CARE Residential Gas Service  Basic Service Charge  Cost per Therm	\$4.00								\$4.00	
Baseline Quantities Tier II	\$ .51824 .60689	\$ .14419 .14419	\$ .66243 .75108	\$ .00166 .00166	\$	.01587 .01587	\$	.28918 .28918	\$ .96914 1.05779	R R
GN-15-Secondary Residential Gas Service  Basic Service Charge Cost per Therm	\$6.00 \$ .90881	\$ .14419	\$1.05300	\$ .00166	\$	.02841	\$	.28918	\$6.00 \$1.37225	R
GN-20-Multi-Family Master-Metered Gas Service Basic Service Charge Cost per Therm	\$25.00								\$25.00	
Baseline Quantities Tier II	\$ .75614 .86695	\$ .14419 .14419	\$ .90033 1.01114	\$ .00166 .00166	\$	.02841 .02841	\$	.28918 .28918	\$1.21958 1.33039	R R
GN-25-Multi-Family Master-Metered Gas Service-Submetered Basic Service Charge	\$25.00								\$25.00	
Cost per Therm  Baseline Quantities  Tier II  Submetered Discount per Occupied Space	\$ .75614 .86695 (\$11.01)	\$ .14419 .14419	\$ .90033 1.01114	\$ .00166 .00166	\$	.02841 .02841	\$	.28918 .28918	\$1.21958 1.33039 (\$11.01)	R R
GN-35-Agriculture Employee Housing & Nonprofit Group Living Facility Gas Service Basic Service Charge	\$ 8.80								\$ 8.80	
Cost per Therm First 100 Next 500 Next 2,400 Over 3,000	\$ .41268 .31192 .21383 .06647	\$ .14419 .14419 .14419 .14419	\$ .55687 .45611 .35802 .21066	\$ .00166 .00166 .00166 .00166	\$	.01587 .01587 .01587 .01587	\$	.28918 .28918 .28918 .28918	\$ .86358 .76282 .66473 .51737	R R R R
GN-40-Core General Gas Service (non-Covered Entities)  Basic Service Charge Transportation Service Charge	\$11.00 \$780.00								\$11.00 \$780.00	
Cost per Therm First 100 Next 500 Next 2,400 Over 3,000	\$ .62419 .49824 .37563 .19143	\$ .14419 .14419 .14419 .14419	\$ .76838 .64243 .51982 .33562	\$ .00166 .00166 .00166 .00166	\$	.02841 .02841 .02841 .02841	\$	.28918 .28918 .28918 .28918	\$1.08763 .96168 .83907 .65487	R R R R

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### SOUTHWEST GAS CORPORATION P.O. Box 98510

Las Vegas, Nevada 89193-8510 California Gas Tariff

116th Revised 113th Revised Canceling

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

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### STATEMENT OF RATES RATES APPLICABLE TO NORTHERN CALIFORNIA SERVICE AREA [1] [2]

Schedule No. and Type of Charge	Margin	Charges [3] and Adjustments	Subtotal Gas Usage Rate	Other Surcharges CPUC PPP	Gas Cost	Effective Sales Rate	
GN-40-Core General Gas Service (Covered Entities)							1
Basic Service Charge Transportation Service Charge Cost per Therm	\$11.00 \$780.00					\$ 11.00 \$780.00	
First 100 Next 500 Next 2,400	\$ .62419 .49824 .37563	\$ .09142 .09142 .09142	\$ .71561 \$ .58966 .46705	.00166 .02841 .00166 .02841	.28918 .28918	\$1.03486 .90891 .78630	R R R
Over 3,000	.19143	.09142	.28285	.00166 .02841	.28918	.60210	R
GN-50-Core Natural Gas Service for Motor Vehicles	_						
Basic Service Charge	\$ 25.00	Ф 4444O	Ф 04044 <b>б</b>	. 004CC	Ф 2004.0	\$ 25.00	_
Cost per Therm	\$ .10425	\$ .14419	\$ .24844 \$	.00166 \$ .02841	\$ .28918	\$ .56769	R
GN-60-Core Internal Combustion Engine Gas Service	_						
Basic Service Charge	\$ 25.00			<b>A COLOR A COLO</b>		\$ 25.00	_
Cost per Therm	\$ .29193	\$ .14419	\$ .43612	\$ .00166 \$ .02841	\$ .28918	\$ .75537	R
GN-66-Core Small Electric Power Generation Gas Service							
Basic Service Charge	\$ 25.00			•		\$ 25.00	_
Cost per Therm	\$ .28373	\$ .14419	\$ .42792	\$ .00166	\$ .28918	\$ .71876	R
GN-70-Noncore General Gas Transportation Service	_						
Basic Service Charge	\$ 100.00					\$ 100.00	1
Transportation Service Charge Cost per Therm	\$ 780.00 \$ .17550	(\$ .01576)	\$ .15974	\$ .00166 \$ .02841		\$ 780.00 \$ .18981	۱,
TFF-Transportation Franchise Fee Surcharge	ψ .17550	(ψ.01070)	ψ .10074	ψ .00100 ψ .02041		ψ .10001	
Provision	_						1
TFF Surcharge per Therm						\$ .00398	1
TDS – Transportation Distribution System Shrinkage Charge TDS Charge per Therm	_					\$ .00162	
MHPS-Master-Metered Mobile Home Park						\$ .00162	
Safety Inspection Provision							l
MHPS Surcharge per Space per Month	_					\$ .21000	

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California Gas Tariff

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### STATEMENT OF RATES RATES APPLICABLE TO NORTHERN CALIFORNIA SERVICE AREA [1] [2]

- [1] Customers taking only transportation service will pay the Effective Sales Rate less the Interstate Reservation and Gas Cost components of the Effective Sales Rate, plus a Transportation Service Charge of \$780 per month and an amount for distribution shrinkage calculated by multiplying the currently effective Gas Cost rate per therm by the Lost and Unaccounted For Gas percentage of 0.56%. The PGA Balancing Account Adjustment is applicable to customers converting from sales service to transportation service for a period of 12 months. The volume charge for customer-secured natural gas transportation will also be subject to the TFF Surcharge.
- [2] A Franchise Fee differential of 2.5% will be applied to monthly billings calculated for all rate schedules for all customers within the limits of the Town of Truckee.
- [3] The Charges and Adjustments applicable to each tariff rate schedule includes the following components:

Charges and Adjustments Description	GN-10, GN-40 (non- GN-12, Covered GN-15, Entities), GN-20, GN-50, GN-25, GN-60, GN-35, GN-66	GN-40, (Covered Entities)	GN-70
Upstream Intrastate Charges			
Storage	\$ .02174	\$ .02174	
Variable	.20533	.20533	
IRRAM Surcharge	.00000	.00000	\$ .00000
Balancing Account Adjustments			
FCAM*	( .13851)	( .13851)	( .07139)
GHGBA**			
Non-Covered Entities [a]	.05353		.05353
Covered Entities [a]		.00076	
NERBA	.00051	.00051	.00051
NGLAPBA	.00159	.00159	.00159
Total Rate Adjustment	\$ .14419	\$ .09142	(\$ .01576)

- The FCAM surcharge includes an amount of (\$.07139) per therm related to the difference between Southwest Gas' authorized margin and recorded revenues intended to recover these costs.
- \*\* Pursuant to D.15-10-032, Company costs incurred to comply with the California Air Resources Board (ARB) natural gas supplier Cap- and-Trade Program are to be included in transportation rates and recovered from Non-Covered Entities. Covered Entities, who are directly regulated by the ARB, are only responsible for paying for emission costs related to lost and unaccounted for gas (LUAF).
- [a] Pursuant to D.18-03-017, Covered and non-Covered entities have a component to recover the 2015-2017 net compliance costs and proceeds amortized over a twelve month period. Also included are the 2018 GHG costs which are amortized over an eighteen month period.

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ecision No	Senior Vice President	Resolution No.

California Gas Tariff

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113th Revised Cal. P.U.C. Sheet No. 71

### STATEMENT OF RATES RATES APPLICABLE TO SOUTH LAKE TAHOE SERVICE AREA [1]

		Charges [2]		Oth O			Effective	
Schedule No. and Type of Charge	Margin	and Adjustments	Subtotal Gas Usage Rate	Other Sur CPUC	<u>cnarges</u> PPP	Gas Cost	Effective Sales Rate	
SLT-10-Residential Gas Service								1
Basic Service Charge	- \$5.00						\$5.00	
Cost per Therm	·						•	
Baseline Quantities	\$ .33324	\$ .22546	\$ .55870	\$ .00166	\$ .02841	\$ .28918	\$ .87795	R
Tier II	.42078	.22546	.64624	.00166	.02841	.28918	.96549	R
SLT-12-CARE Residential Gas Service	_							
Basic Service Charge	\$4.00						\$4.00	
Cost per Therm								
Baseline Quantities	\$ .16366	\$ .22546	\$ .38912	\$ .00166	\$ .01587			R
Tier II	.23370	.22546	.45916	.00166	.01587	.28918	.76587	R
SLT-15-Secondary Residential Gas Service	_							
Basic Service Charge	\$6.00						\$6.00	
Cost per Therm	\$ .46121	\$ .22546	\$ .68667	\$ .00166	\$ .02841	\$ .28918	\$1.00592	R
SLT-20-Multi-Family Master-Metered Gas Service	_							
Basic Service Charge	\$11.00						\$11.00	
Cost per Therm								
Baseline Quantities	\$ .33324	\$ .22546	\$ .55870	\$ .00166	\$ .02841	\$ .28918	\$ .87795	R
Tier II	.42078	.22546	.64624	.00166	.02841	.28918	.96549	R
SLT-25-Multi-Family Master-Metered Gas								
Service-Submetered	_							
Basic Service Charge	\$11.00						\$11.00	
Cost per Therm								
Baseline Quantities	\$ .33324	\$ .22546	\$ .55870	\$ .00166	\$ .02841		\$ .87795	R
Tier II	.42078	.22546	.64624	.00166	.02841	.28918		R
Submetered Discount per Occupied Space	(\$7.69)						(\$ 7.69)	
SLT-35-Agriculture Employee Housing & Nonprofit Group Living Facility Gas Service	_							
Basic Service Charge	\$ 8.80						\$ 8.80	
Cost per Therm								
First 100	\$ .25375	\$ .22546	\$ .47921	\$ .00166	\$ .01587		\$ .78592	R
Next 500	.20025	.22546	.42571	.00166	.01587		_	R
Next 2,400	.14674	.22546	.37220	.00166	.01587			R
Over 3,000	.05256	.22546	.27802	.00166	.01587	.28918	.58473	R
SLT-40-Core General Gas Service (non-Covered Entities)	_							
Basic Service Charge	\$11.00						\$11.00	
Transportation Service Charge	\$780.00						\$780.00	1
Cost per Therm								1.
First 100	\$ .44585	\$ .22546		\$ .00166	\$ .02841		\$ .99056	R
Next 500	.37897	.22546	.60443	.00166	.02841			R
Next 2,400	.31209	.22546	.53755	.00166	.02841			R
Over 3,000	.19436	.22546	.41982	.00166	.02841	.28918	.73907	R

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### STATEMENT OF RATES RATES APPLICABLE TO SOUTH LAKE TAHOE SERVICE AREA [1]

		Charges [2] and	Subtotal Gas	Other Surcharges		Effective
Schedule No. and Type of Charge	Margin		Usage Rate	CPUC PPP	Gas Cost	Sales Rate
SLT-40-Core General Gas Service (Covered Entities)						
Basic Service Charge	\$11.00					\$11.00
Transportation Service Charge	\$780.00					\$780.00
Cost per Therm						
First 100	\$ .44585	\$ .17269	\$ .61854	\$ .00166 \$ .02841		\$ .93779
Next 500	.37897	.17269	.55166	.00166 .02841		.87091
Next 2,400	.31209	.17269	.48478	.00166 .02841		.80403
Over 3,000	.19436	.17269	.36705	.00166 .02841	.28918	.68630
SLT-50-Core Natural Gas Service for Motor Vehicles						
Basic Service Charge	\$11.00					\$11.00
Cost per Therm	\$ .21501	\$ .22546	\$ .44047	\$ .00166 \$ .02841	\$ .28918	\$ .75972
SLT-60-Core Internal Combustion Engine Gas Service						
Basic Service Charge	\$ 11.00					\$ 11.00
Cost per Therm	\$ .24467	\$ .22546	\$ .47013	\$ .00166 \$ .02841	\$ .28918	\$ .78938
SLT-66-Core Small Electric Power Generation Gas Service						
Basic Service Charge	\$ 11.00					\$ 11.00
Cost per Therm	\$ .24467	\$ .22546	\$ .47013	\$ .00166	\$ .28918	\$ .76097
SLT-70-Noncore General Gas Transportation Service						
Basic Service Charge	\$ 100.00					\$ 100.00
Transportation Service Charge	\$ 780.00					\$ 780.00
Cost per Therm	\$ .17842	\$ .06551	\$ .24393	\$ .00166 \$ .02841		\$ .27400
TFF-Transportation Franchise Fee Surcharge Provision						
TFF Surcharge per Therm						\$ .00398
TDS-Transportation Distribution System						
Shrinkage Charge	_					
TDS Charge per Therm						\$ .00162
MHPS-Master-Metered Mobile Home Park Safety Inspection Provision						
MHPS Surcharge per Space per Month	•					\$ .21000

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California Gas Tariff

13th Revised	Cal. P.U.C. Sheet No	73
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### STATEMENT OF RATES

### RATES APPLICABLE TO SOUTH LAKE TAHOE SERVICE AREA [1]

[1] Customers taking only transportation service will pay the Effective Sales Rate less the Interstate Reservation and Gas Cost components of the Effective Sales Rate, plus a Transportation Service Charge of \$780 per month and an amount for distribution shrinkage calculated by multiplying the currently effective Gas Cost rate per therm by the Lost and Unaccounted For Gas percentage of 0.56%. The PGA Balancing Account Adjustment is applicable to customers converting from sales service to transportation service for a period of 12 months. The volume charge for customer-secured natural gas transportation service will also be subject to the TFF Surcharge.

[2] The Charges and Adjustments applicable to each tariff rate schedule includes the following components:

Charges and Adjustments Description	SLT-10, SLT-12, SLT-15, SLT-20, SLT-25, SLT-35,	SLT-40 (non- Covered Entities), SLT-50, SLT-60, SLT-66	SLT-40, (Covered Entities)	SLT-70
Upstream Interstate Charges				
Storage	\$ .0	2174	\$ .02174	
Reservation	.2	0533	.20533	
IRRAM Surcharge	.0	0000	.00000	\$ .00000
Balancing Account Adjustments				
FCAM*	( .0	5694)	( .05694)	.01018
GHGBA**				
Non-Covered Entities [a]	.0	5353		.05353
Covered Entities [a]			.00076	
NERBA	.0	00062	.00062	.00062
NGLAPBA	.0	0118	.00118	.00118
Total Rate Adjustment	\$ .2	2546	\$ .17269	\$ .06551

<sup>\*</sup> The FCAM surcharge includes an amount of \$.01018 per therm related to the difference between Southwest Gas' authorized margin and recorded revenues intended to recover these costs.

		Issued by	Date Filed Nov	ember 30, 2018
Advice Letter No.	1087	Justin Lee Brown	Effective	
Decision No.		Senior Vice President	Resolution No.	

<sup>\*\*</sup> Pursuant to D.15-10-032, Company costs incurred to comply with the California Air Resources Board (ARB) natural gas supplier Cap- and-Trade Program are to be included in transportation rates and recovered from Non-Covered Entities. Covered Entities, who are directly regulated by the ARB, are only responsible for paying for emission costs related to lost and unaccounted for gas (LUAF).

<sup>[</sup>a] Pursuant to D.18-03-017, Covered and non-Covered entities have a component to recover the 2015-2017 net compliance costs and proceeds amortized over a twelve month period. Also included are the 2018 GHG costs which are amortized over an eighteen month period.

### Advice Letter No. 1087 Attachment 1

FCAM, ITCAM and Transportation and Storage Rates
Schedules

### SOUTHWEST GAS CORPORATION SOUTHERN CALIFORNIA DIVISION BALANCING ACCOUNT SURCHARGE RATES TWELVE-MONTHS ENDING OCTOBER 31, 2019

Line No.	Description	Amount	Rate per Therm	Line No.
110.	(a)	(b)	(c)	110.
1	Franchises & Uncollectibles Rate [1]	1.630%		1
	Fixed Cost Adjustment Mechanism (FCAM)			
2	Upstream Fixed Charges Balance [2]	\$ 420,038		2
3	Total Core Volumes (Therms) [3]	76,007,207		3
4	Upstream Fixed Charges Included in Rates (Ln. 2/Ln.3)*(1+Ln.1)		\$ 0.00562	4
5	Margin Balance [2]	\$ 9,252,036		5
6	Total Throughput Less Special Contract Volumes (Therms) [4]	89,245,236		6
7	Margin Balance Amount Included in Rates (Ln. 5/Ln.6)*(1+Ln.1)		\$ 0.10536	7
8	Total FCAM Surcharge Rate (Ln. 4 + Ln. 7)		\$ 0.11098	8
	Intrastate Transportation Account Mechanism (ITCAM)			
9	Upstream Variable Charges [2]	\$ 742,923		9
10	Total Throughput Less GS-LUZ Volumes (Therms) [5]	84,850,376		10
11	ITCAM Surcharge Rate (Ln. 9/Ln. 10)*(1+Ln.1)		\$ 0.00890	11

<sup>[1]</sup> Authorized by Commission in D.14-06-028.

<sup>[2]</sup> Ending account balances at October 31, 2018.

<sup>[3]</sup> Core volumes for twelve-month forecast period ended December 31, 2019.

<sup>[4]</sup> Total throughput, excluding speical contract volumes for twelve-month forecast period ended December 31, 2019.

<sup>[5]</sup> Total throughput, excluding GS-LUZ volumes for twelve-month forecast period ended December 31, 2019.

### SOUTHWEST GAS CORPORATION NORTHERN CALIFORNIA DIVISION BALANCING ACCOUNT SURCHARGE RATES TWELVE-MONTHS ENDING OCTOBER 31, 2019

Line No.	Description (a)	Amount (b)	Rate per Therm (c)	Line No.
1	Franchises & Uncollectibles Rate [1]	1.459%		1
	Fixed Cost Account Mechanism (FCAM)			
2	Upstream Fixed Charges Balance [2]	\$(3,022,325)		2
3	Total Core Volumes (Therms) [3]	45,683,924		3
4	Upstream Fixed Charges Included in Rates (Ln. 2/Ln.3)*(1+Ln.1)		\$ (0.06712)	4
5	Margin Balance [2]	\$(1,824,959)		5
6	Total Throughput (Therms) [4]	25,935,902		6
7	Margin Balance Amount Included in Rates (Ln. 5/Ln.6)*(1+Ln.1)		\$ (0.07139)	7
8	Total FCAM Surcharge Rate (Ln. 4 + Ln. 7)		\$ (0.13851)	8

<sup>[1]</sup> Authorized by Commission in D.14-06-028.

<sup>[2]</sup> Ending account balances at October 31, 2018.

<sup>[3]</sup> Core volumes for Northern California & South Lake Tahoe Jurisdictions for twelve-month forecast period ended December 31, 2019.

<sup>[4]</sup> Northern California throughput for twelve-month forecast period ended December 31, 2019.

### SOUTHWEST GAS CORPORATION SOUTH LAKE TAHOE DIVISION BALANCING ACCOUNT SURCHARGE RATES TWELVE-MONTHS ENDING OCTOBER 31, 2019

Line No.	Description (a)	Amount (b)	Rate per Therm (c)	Line No.
1	Franchises & Uncollectibles Rate [1]	1.459%		1
	Fixed Cost Adjustment Mechanism (FCAM)			
2	Upstream Fixed Charges Balance [2]	\$(3,022,325)		2
3	Total Core Volumes (Therms) [3]	45,683,924		3
4	Upstream Fixed Charges Included in Rates (Ln. 2/Ln.3)*(1+Ln.1)		\$ (0.06712)	4
5	Margin Balance [2]	\$ 214,474		5
6	Total Throughput (Therms) [4]	21,385,852		6
7	Margin Balance Amount Included in Rates (Ln. 5/Ln.6)*(1+Ln.1)		\$ 0.01018	7
8	Total FCAM Surcharge Rate (Ln. 4 + Ln. 7)		\$ (0.05694)	8

<sup>[1]</sup> Authorized by Commission in D.14-06-028.

<sup>[2]</sup> Ending account balances at October 31, 2018.

<sup>[3]</sup> Core volumes for Northern California & South Lake Tahoe Jurisdictions for twelve-month forecast period ended December 31, 2019.

<sup>[4]</sup> South Lake Tahoe throughput for twelve-month forecasted period ended December 31, 2019.

#### SOUTHWEST GAS CORPORATION SOUTHERN CALIFORNIA UPSTREAM PIPELINE CHARGES AND STORAGE COSTS

Line No.	Description	Annual Volumes	Rate	Annual Amount	Rate per Therm	Line No.
	(a)	(b)	(c)	(d)=(b)*(c)	(e)	
1	Franchise & Uncollectible Rate [1]		1.62990%			1
2	Upstream Interstate Reservation Charges Kern River Transmission Company (Kern) (Dth/Day) G-BTS2 Southern California Gas Company (SoCal) Backbone Transportation Service (Dth/Day)	9,125,000 9,125,000	\$ 0.19510 \$ 0.21082	\$ 1,780,288 \$ 1,923,733		2 3
4 5	GT-SWGX SoCal Pisgah Meter Station (Months) Total Annual Reservation Cost	12	\$ 27,505	\$ 330,060 \$ 4,034,080	- -	4 5
6	Total Core Sales Volumes (Therms) [2]	76,007,207				6
7	Reservation Rate (Ln.5/Ln.6)*(1+Ln.1)				\$ 0.05394	7
8	Upstream Intrastate Storage Charges G-TBS SoCal Transaction Based Storage Service - Inventory Storage Reservation Charge (Dth/Day)	617,836,230	\$ 0.00192	\$ 1,186,246		8
9	Total Annual Storage Cost			\$ 1,186,246	- -	9
10	Total Core Throughput (Therms) [3]	76,007,207				10
11	Storage Rate (Ln.9/Ln.10)*(1+Ln.1)				\$ 0.01586	11
12	Upstream Intrastate Variable Charges GT-TLS (GT-9CA) SoCal Intrastate Transportation Service (Therms)	89,928,694	\$ 0.02028	\$ 1,823,754		12
13	GT-SWGX SoCal Exchange Wholesale Natural Gas Service (Therms)	22,482,174	\$ 0.21082	\$ 4,739,692		13
14 15	Kern Transmission Service (Therms) Total Annual Variable Cost	91,243,032	\$ 0.00044	\$ 40,147 \$ 6,603,593	- -	14 15
16	Total Throughput (Therms) [4]	89,245,236				16
17	Variable Rate (Ln.15/Ln.16)*(1+Ln.1)				\$ 0.07520	17

<sup>[1]</sup> Authorized by Commission in Order D.14-06-028.

<sup>[2]</sup> Core sales volumes for twelve-month forecast period ended December 31, 2019.

<sup>[3]</sup> Total core throughput for twelve-month forecast period ended December 31, 2019.

<sup>[4]</sup> Total throughput, less exempt volumes for twelve-month forecast period ended December 31, 2019.

### SOUTHWEST GAS CORPORATION NORTHERN CALIFORNIA RATE JURISDICTION AND SOUTH LAKE TAHOE RATE JURISDICTION UPSTREAM PIPELINE AND STORAGE COSTS

Line No.	Description	Annual Volumes	Rate	Annual Amount	Rate per Therm	Line No.
	(a)	(b)	(c)	(d)=(b)*(c)	(e)	
1	Franchise & Uncollectible Rate [1]		1.45890%			1
2	Total Core Throughput (Therms) [2]	45,197,824				2
3	<u>Upstream Interstate Reservation Charges</u> Northwest Pipeline	2,284,920	\$ 1.18725	\$ 2,712,780		3
4	Paiute Pipeline FT-1 (F47, F50, F51)	4,498,870	\$ 1.02286	4,601,714		4
5	Paiute Pipeline 2010 Incremental Expansion (F45)	198,840	\$ 1.74114	346,208		5
6	Tuscarora Pipeline	1,674,120	\$ 0.83615	1,399,815		6
7	Ruby Pipeline	570,000	\$ 0.15208	86,686	_	7
8	Total Reservation Cost			\$ 9,147,203	•	8
9	Reservation Rate (Ln.8/Ln.2)*(1+Ln.1)				\$ 0.20533	9
	<u>Upstream Interstate Storage Charges</u> Paiute Pipeline Company					
40	LGS-1 Liquefied Gas Storage Service	4 504 000	C 0 00740	£ 400.040		40
10 11	Storage Charge Delivery Charge	1,504,860 114,000	\$ 0.02748 \$ 0.36275	\$ 496,243 496,242		10 11
12	Total Storage Cost	114,000	φ 0.30273	\$ 992,485		12
12	Total Storage Cost			φ 992,400	•	12
13	Total Core Throughput (Therms) [3]	46,308,264				13
14	Total Storage Rate (Ln.12/Ln.2)*(1+Ln.1)				\$ 0.02174	14

<sup>[1]</sup> Authorized by Commission in Order D.14-06-028.

<sup>[2]</sup> Combined volumes for Northern California & South Lake Tahoe Jurisdictions for twelve-month forecast period ended December 31, 2019.

<sup>[3]</sup> Combined volumes including Core Aggregators, for Northern California & South Lake Tahoe Jurisdictions for twleve-month forecast period ended December 31, 2019.

### Advice Letter No. 1087 Attachment 2

GHG Costs, Allowance Proceeds and California Climate Credit

Tables A - E

### SOUTHWEST GAS CORPORATION Table A: Forecast Revenue Requirement D.15-10-032 - Appendix A Advice Letter No. 1087

			2018	8		2019	
Line	Description		Forecast	Recorded	, 100	Forecast	Recorded
7 .	Gross Throughput (MMcf)						
7 65	Inforging to Covered Entitles (Minds)  Net Throughput to End Users (MMcP (Line 1 + Line 2)		12 052			14 071	
1	ייני ווויסת פולי מייני מייני מייני (אוויני אייני פולי מייני		756,51			14,0/1	
4	Lost and Unaccounted for Gas <sup>2</sup> (MMcf)		86			66	
52	Total Supplied Gas (MMcf) (Line 3 + Line 4)		14,050			14,170	
9	Emissions Conversion Factor (MTCO <sub>2</sub> e/MM <i>c</i> f)		54.64437			54.64437	
7	Compliance Obligation for End Users and LUAF (MTCO $_2$ e) (Line 5 $^st$ Line 6)		767,749			774,289	
00	Compliance Obligation for Company Facilities (MTCO <sub>2</sub> e)		0			0	
6	Gross Compliance Obligation (MTCO <sub>2</sub> e) (Line 7 + Line 8)		767,749			774,289	
10	Directly Allocated Allowances		(685,378)			(670,714)	
11	Percentage Consigned to Auction		40%			45%	
12	Consigned Allowances (Line 10 * Line 11)		274,151			301,821	
13	Net Compliance Obligation (MTCO <sub>2</sub> e) (Line 9 + Line 10+ Line 12)		356,522			405,396	
14	Proxy GHG Allowance Price <sup>2,3</sup>	\$	15.08	14.73	\$>	15.66	
15	Compliance Instrument Cost	ψ,	5,376,350	4,066,475	₹5	6,348,501	
16	Interest		•	162,822	2		
17	Franchise Fees & Uncollectibles	\$	87,634	66,284	\$	103,481	
18	Revenue Requirement (Line 15 + Line 16 + Line 17)	\$	5,463,984	\$ 4,295,580	\$ 0	6,451,981	
19	Previous Year's Cost Balancing Subaccount Balance <sup>5</sup>		0,	(25,872)	2)		
20	Revenue Requirement to be Included in Rates (Line 18 + Line 19)	45	5,463,984	4,269,708	\$	6,451,981	
21	Covered Entity Rate Impact (\$/therm)	45	0.00061		v	0.00063	
22	Non-Covered Entity Rate Impact (\$/therm)	\$	0.03809		\$	0.04460	

1 Lost and unaccounted for gas percentages were authorized in Southwest Gas' last General Rate Case (GRC) Decision 14-06-028

Intercontinental Exchange dated April 23, 2018, Futures Daily Market Report for Physical Environmental, "CAW-California Carbon Allowance Future-Vintage 2018 - California Carbon Allowance 2 The forecasted proxy price is the April 23, 2018, futures settlement price for vintage year 2018 allowances for delivery in December. The future settlements price was obtained from the

Vintage 2018." This methodology is consistent with Southwest Gas' methodology for forecasting gas supply prices.

3 The forecasted proxy price is the April 23, 2018, futures settlement price for vintage year 2019 allowances for delivery in December. The future settlements price was obtained from the Intercontinental Exchange dated April 23, 2018, Futures Daily Market Report for Physical Environmental, "CAX-California Carbon Allowance Future-Vintage 2019 - California Carbon Allowance Vintage 2019." This methodology is consistent with Southwest Gas' methodology for forecasting gas supply prices.

5 Previous Year's Cost Balancing Subaccount Balance of \$602,115 (due to netting 2015-2017 costs, revenues and admin expense) less recovery revenues through September 30, 2018 of 4 The F&U Rate was authorized in Southwest Gas' last General Rate Case (GRC) Decision 14-06-028

(25,872) 5,463,984 4,269,708 6,451,981 7,620,385 124,212 7,744,597 \$(627,987).

6 Calculation of GHGBA Non-Covered and Covered Entity Rates Effective January 1, 2019:
Previous Year's Cost Balancing Subaccount Balance (Beginning Balance) Less 2018 Recored Revenue Requirement Plus 2019 Revenue Requirement 2018 Revenue Requirement

Franchise Fees & Uncollectibles

Non-Covered Entity Rate Impact (\$/therm)

Covered Entity Rate Impact (\$/therm)

0.00076

#### **SOUTHWEST GAS CORPORATION**

Advice Letter No. 1087 D.15-10-032 - Appendix A

**Table C: GHG Allowance Proceeds** 

		20	18		20		
Line	Description	Forecast		Recorded	Forecast		Recorded
1	Proxy GHG Allowance Price (\$/MT) <sup>1,2</sup>	\$ 15.08			\$ 15.66		
2	Directly Allocated Allowances	685,378			670,714		
3	Percentage Consigned to Auction	40%			45%		
4	Consigned Allowances	274,151			301,821		
5	Allowance Proceeds	\$ (4,134,197)	\$	(4,049,210)	\$ (4,726,522)		
6	Previous Year's Revenue Balancing Subaccount Balance		\$	-			
7	Interest		\$	132,110			
8	Subtotal Allowance Proceeds (\$) (Line 5 + Line 6 + Line 7)	\$ (4,134,197)	\$	(4,049,210)	\$ (4,726,522)	\$	-
9	Outreach and Admin Expenses (\$) (from Table D)	\$ 11,220	\$	2,049	\$ 64,260	\$	-
10	Net GHG Proceeds Available for Customer Returns (\$) (Line 8 + Line 9)	\$ (4,122,977)	\$	(4,047,161)	\$ (4,662,262)	\$	
11	Number of Residential Households	184,203			187,558		
12	Per Household California Climate Credit (\$) (Line 10 / Line 11)	\$ 22.38			\$ 24.86		

#### **Footnotes**

<sup>1</sup> The forecasted proxy price is the April 23, 2018, futures settlement price for vintage year 2018 allowances for delivery in December. The future settlements price was obtained from the Intercontinental Exchange dated April 23, 2018, Futures Daily Market Report for Physical Environmental, "CAW-California Carbon Allowance Future-Vintage 2018 - California Carbon Allowance Vintage 2018." This methodology is consistent with Southwest Gas' methodology for forecasting gas supply prices.

<sup>2</sup> The forecasted proxy price is the April 23, 2018, futures settlement price for vintage year 2018 allowances for delivery in December. The future settlements price was obtained from the Intercontinental Exchange dated April 23, 2018, Futures Daily Market Report for Physical Environmental, "CAX-California Carbon Allowance Future-Vintage 2019 - California Carbon Allowance Vintage 2019." This methodology is consistent with Southwest Gas' methodology for forecasting gas supply prices.

### **SOUTHWEST GAS CORPORATION**

Advice Letter No. 1087

D.15-10-032 - Appendix A

**Table D: GHG Outreach and Administrative Expenses** 

		_	20	18		2019		
Line	Description		Forecast	R	ecorded	Forecast	Re	corded
1	Outreach Expenses							
2	Detail of Outreach Activity (\$)							
3	Website Page	\$	2,000					
4	E-Blasts	\$	5,000	\$	2,037	\$ 5,000		
5	Bill Insert	\$	3,000			\$ 3,000		
6	On-Bill Message	\$	-					
7	On-Hold Phone Message	\$	1,000					
8	Post Phone Survey	\$	-			\$ 55,000		
9	Subtotal Outreach (\$)	\$	11,000	\$	2,037	\$ 63,000	\$	-
10	Administrative Expenses							
11	Detail of Administrative Activity (\$)							
12	Programming	\$	-					
13	Testing	\$	-					
14	Subtotal Administrative (\$)	\$	-	\$	-	\$ -	\$	-
15	Subtotal Outreach and Administrative (\$)	\$	11,000	\$	2,037	\$ 63,000	\$	-
16	Interest (\$)	\$	220	\$	12	\$ 1,260	\$	-
17	Total (\$)	\$	11,220	\$	2,049	\$ 64,260	\$	-

# SOUTHWEST GAS CORPORATION Advice Letter No. 1087 D.15-10-032 - Appendix A

**Table E: Compliance Obligation Over Time** 

2016 <sup>1</sup> 2017 2018 2019 2020	695,026 718,067	0 0
2015	668,077	0
	Natural Gas Fuel Supplier Compliance Obligation (MTCO <sub>2</sub> e)	Company Facility Compliance Obligation (MTCO <sub>2</sub> e)

<sup>&</sup>lt;sup>1</sup>In Advice Letter No. 1072, Southwest Gas' Compliance Obligation was inadvertently noted as 695,462.

### Advice Letter No. 1087 Attachment 3

Natural Gas Leak Abatement Program Costs

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NEW ENVIRONMENTAL REGULATORY BALANCING ACCOUNT (NERBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES SOUTHERN CALIFORNIA SERVICE TERRITORY

Line					2019	Total Rate Effective	Line
No.	Description	Best Practice	Percent	18 Forecasted Costs [1]	Forecasted Costs	January 1, 2019	No.
	(a)	(b)	(c)	 (d)	(e)	(d) + (e)	
1	"Find it/Fix it" Minimize Emissions from Operations,	21		\$ 265,000	0	265,000	1
2	Maintenance and Other Activities	23		 31,000	31,000	62,000	2
3	Total Dollars			\$ 296,000	31,000	327,000	3
4	Pre-Tax Return			 10.80%	10.80%	10.80%	4
5	Financing Cost			\$ 31,972	3,348	35,320	5
6	Depreciation		3.61%	\$ 10,686	1,119	11,805	6
7	Property Tax		1.20%	\$ 3,542	371	3,913	7
8	Revenue Requirement Before Franchise			\$ 46,199	4,838	51,038	8
9	Franchise Rate		1.15%	\$ 532	56_	587	9
10	Revenue Requirement After Franchise			\$ 46,731	4,894	51,625	10
11	Applicable Volumes (therms)			90,085,988	90,085,988	90,085,988	11
12	NERBA Rate Applicable to all Rate Schedules Except GS-LUZ			\$ 0.00052	\$ 0.00005	\$ 0.00057	12

<sup>[1]</sup> Filed in Advice Letter No. 1085

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NATURAL GAS LEAK ABATEMENT PROGRAM BALANCING ACCOUNT (NGLAPBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES SOUTHERN CALIFORNIA SERVICE AREA

Line				20	018 Forecasted	2019 Forecasted	Total Rate Effective January 1,	Line
No.	Description	Best Practice	Percent	_	Costs [1]	Costs	2019	No.
	(a)	(b)	(c)		(d)	(e)	(d) + (e)	
1	Stationary Methane Detectors (Capital)	18		\$	150,000	300,000	450,000	1
2	Stationary Methane Detectors (O&M)	18			363,590	487,366	850,956	2
3	Pipe Fitting Specifications (O&M)	22			13,216	0	13,216	3
4	Total Dollars			\$	526,806	787,366	1,314,172	4
5	Pre-Tax Return			_	10.80%	10.80%	10.80%	5
6	Financing Cost			\$	56,901	85,045	141,946	6
7	Depreciation [2]		2.86%	\$	4,290	8,580	12,870	7
8	Property Tax [3]		1.20%	\$	1,795	3,590	5,385	8
9	Revenue Requirement Before Franchise			\$	62,986	97,215	160,201	9
10	Franchise Rate		1.15%	\$	725	1,119	1,843	10
11	Revenue Requirement After Franchise			\$	63,711	98,333	162,044	11
12	Applicable Volumes (therms)				90,085,988	90,085,988	90,085,988	12
13	NGLAPBA Rate Applicable to all Rate Schedules Except GS-LUZ			\$	0.00071	\$ 0.00109	\$ 0.00180	13

<sup>[1]</sup> Filed in Advice Letter No. 1085

<sup>[2]</sup> Applicable only to Capital expenses. Depreciation is not applied to O & M expenses.

<sup>[3]</sup> Applicable only to Capital expenses. Property Tax is not applied to O & M expenses.

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NEW ENVIRONMENTAL REGULATORY BALANCING ACCOUNT (NERBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES NORTHERN CALIFORNIA SERVICE AREA

Line No.	Description	Best Practice	Percent	20	18 Forecasted Costs [1]	2019 Forecasted Costs	Total Rate Effective January 1, 2019	Line No.
	(a)	(b)	(c)		(d)	(e)	(d) + (e)	
1	Minimize Emissions from Operations, Maintenance and Other Activities	23		\$	55,000	24,000	79,000	1
2	Total Dollars			\$	55,000	24,000	79,000	2
3	Pre-Tax Return				12.14%	12.14%	12.14%	3
4	Financing Cost			\$	6,677	2,914	9,590	4
5	Depreciation		3.82%	\$	2,101	917	3,018	5
6	Property Tax		1.33%	\$	731	319	1,050	6
7	Revenue Requirement Before Franchise			\$	9,509	4,149	13,658	7
8	Franchise Rate		1.29%	\$	123	54	176	8
9	Revenue Requirement After Franchise			\$	9,632	4,203	13,835	9
10	Applicable Volumes (therms)				27,182,452	27,182,452	27,182,452	10
11	NERBA Rate Applicable to all Rate Schedules			\$	0.00035	\$ 0.00015	\$ 0.00051	11

<sup>[1]</sup> Filed in Advice Letter No. 1085

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NATURAL GAS LEAK ABATEMENT PROGRAM BALANCING ACCOUNT (NGLAPBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES NORTHERN CALIFORNIA SERVICE AREA

Line No.	Description	Best Practice	Percent	20 <sup>-</sup>	18 Forecasted Costs [1]	2019 Forecasted Costs	Total Rate Effective January 1, 2019	Line No.
INO.	(a)	(b)	(c)		(d)	(e)	(d) + (e)	INO.
	(a)	(b)	(0)		(u)	( <del>e</del> )	(u) + (e)	
1	Stationary Methane Detectors	18		\$	109,709	147,057	256,767	1
2	Pipe Fitting Specifications (O&M)	22			3,988	0	3,988	2
3	Total Dollars			\$	113,697	147,057	260,754	3
4	Pre-Tax Return				12.14%	12.14%	12.14%	4
5	Financing Cost			\$	13,802	17,852	31,655	5
6	Depreciation [2]		2.97%	\$	3,258	4,368	7,744	6
7	Property Tax [3]		1.33%	\$	1,458	1,954	3,413	7
8	Revenue Requirement Before Franchise			\$	18,519	24,174	42,812	8
9	Franchise Rate		1.29%	\$	239	312	553	9
10	Revenue Requirement After Franchise			\$	18,758	24,487	43,365	10
11	Applicable Volumes (therms)				27,182,452	27,182,452	27,182,452	11
12	NGLAPBA Rate Applicable to all Rate Schedules			\$	0.00069	\$ 0.00090	\$ 0.00159	12

<sup>[1]</sup> Filed in Advice Letter No. 1085

<sup>[2]</sup> Applicable only to Capital expenses. Depreciation is not applied to O & M expenses.

<sup>[3]</sup> Applicable only to Capital expenses. Property Tax is not applied to O & M expenses.

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NEW ENVIRONMENTAL REGULATORY BALANCING ACCOUNT (NERBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES SOUTH LAKE TAHOE SERVICE AREA

Line				20	18 Forecasted	2019 Forecasted	Total Rate Effective January 1,	Line
No.	Description	Best Practice	Percent		Costs [1]	Costs	2019	No.
	(a)	(b)	(c)		(d)	(e)	(d) + (e)	
	Minimize Emissions from Operations,							
1	Maintenance and Other Activities	23			24,000	55,000	79,000	1
2	Total Dollars			\$	24,000	55,000	79,000	2
3	Pre-Tax Return				12.14%	12.14%	12.14%	3
4	Financing Cost			\$	2,914	6,677	9,590	4
5	Depreciation		3.82%	\$	917	2,101	3,018	5
6	Property Tax		1.40%	\$	337	771	1,108	6
7	Revenue Requirement Before Franchise			\$	4,167	9,549	13,716	7
8	Franchise Rate		1.29%	\$	54_	123	177	8
9	Revenue Requirement After Franchise			\$	4,221	9,673	13,893	9
10	Applicable Volumes (therms)				22,472,566	22,472,566	22,472,566	10
11	NERBA Rate Applicable to all Rate Schedules			\$	0.00019	\$ 0.00043	\$ 0.00062	11

<sup>[1]</sup> Filed in Advice Letter No. 1085

## SOUTHWEST GAS CORPORATION NATURAL GAS LEAK ABATEMENT PROGRAM BEST PRACTICES IMPLEMENTATION NATURAL GAS LEAK ABATEMENT PROGRAM BALANCING ACCOUNT (NGLAPBA) 2018 AND 2019 INCREMENTAL FORECASTED COSTS REVENUE REQUIREMENT AND RATES SOUTH LAKE TAHOE SERVICE AREA

Line No.	Description	Best Practice	Percent	201	18 Forecasted Costs [1]	2019 Forecasted Costs	Total Rate Effective January 1, 2019	Line
	(a)	(b)	(c)		(d)	(e)	(d) + (e)	
1 2 3	Stationary Methane Detectors (Capital) Stationary Methane Detectors (O&M) Pipe Fitting Specifications (O&M)	18 18 22		\$	0 90,700 3,297	0 121,577 0	0 212,277 3,297	1 2
4	Total Dollars			\$	93,997	121,577	215,574	4
5	Pre-Tax Return				12.14%	12.14%	12.14%	5
6	Financing Cost			\$	11,411	14,759	26,170	6
7	Depreciation [2]		2.97%	\$	0	0	0	7
8	Property Tax [3]		1.40%	\$	0	0	0	8
9	Revenue Requirement Before Franchise			\$	11,411	14,759	26,170	9
10	Franchise Rate		1.29%	\$	147	191	338	10
11	Revenue Requirement After Franchise			\$	11,558	14,950	26,508	11
12	Applicable Volumes (therms)				22,472,566	22,472,566	22,472,566	12
13	NGLAPBA Rate Applicable to all Rate Schedules			\$	0.00051	\$ 0.00067	\$ 0.00118	13

<sup>[1]</sup> Filed in Advice Letter No. 1085

<sup>[2]</sup> Applicable only to Capital expenses. Depreciation is not applied to O & M expenses.

<sup>[3]</sup> Applicable only to Capital expenses. Property Tax is not applied to O & M expenses.