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PUBLIC ADVOCATES OFFICE
California Public Utilities Commission

MONITORING AND EVALUATION REPORT

Southern California Gas Company's
Gas Cost Incentive Mechanism

GCIM Year 25
April 1, 2018 through March 31, 2019

Application 19-06-009

San Francisco, California
October 11, 2019

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CHAPTER 1

SUMMARY AND RECOMMENDATIONS

1.1 Introduction and Summary

On June 14, 2019, Southern California Gas Company (U 904 G), (SoCalGas) filed and served Application (A.) 19-06-009 regarding the Year 25 Gas Cost Incentive Mechanism (GCIM) for the time period April 1, 2018 through March 31, 2019. The Public Advocates Office at the California Public Utilities Commission audited and evaluated the Application and SoCalGas' GCIM Year 25 Annual Report (Annual Report). Chapter 2 of this Public Advocates Office Monitoring and Evaluation Report presents the details and results of the Public Advocates Office's review. The attached Appendix A includes the work papers (e.g., records or information produced by SoCalGas in data request responses) supporting the Public Advocates Office's findings.

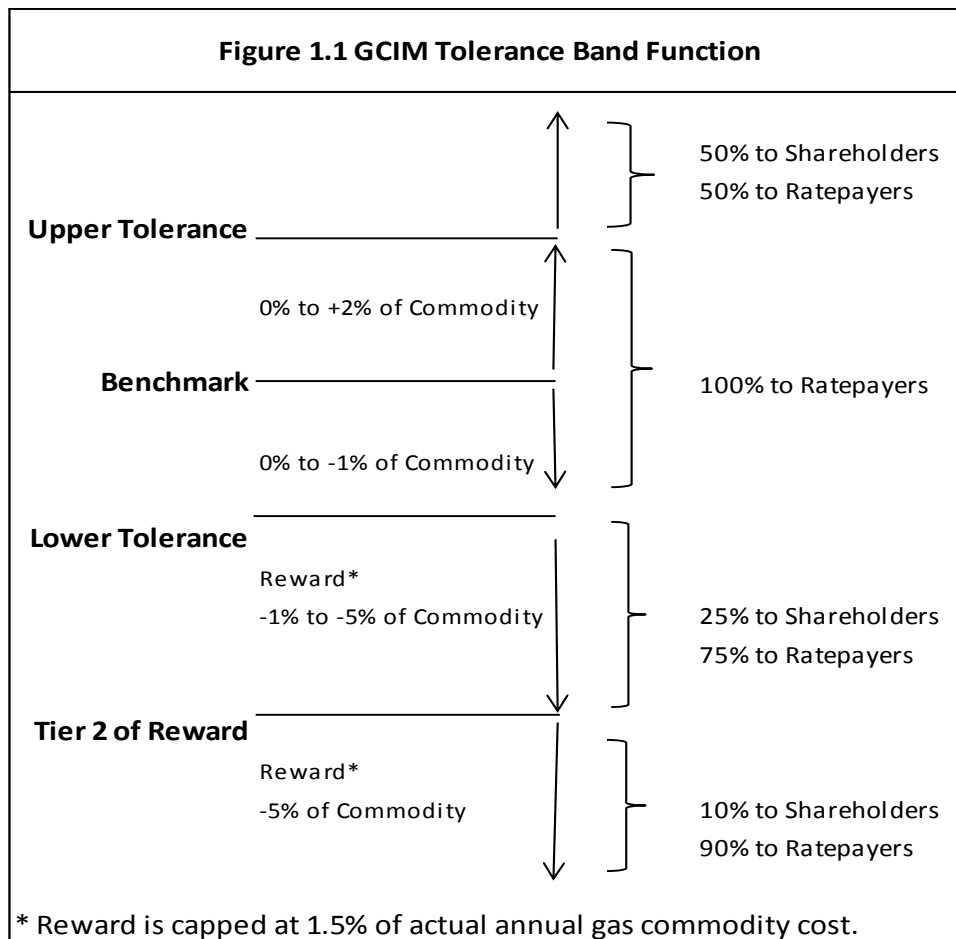
The Public Advocates Office found that for GCIM Year 25, SoCalGas' recorded gas costs were \$105,458,697 below the benchmark, which results in a reward of \$16,798,695 to SoCalGas' shareholders and a ratepayer benefit of \$88,660,002. Table 1-1 below summarizes SoCalGas' Year 25 performance which is based on the detailed GCIM monthly reports of core commodity transaction activities.

TABLE 1-1 Southern California Gas Company Performance Summary (in \$Millions) GCIM Year 25 April 1, 2018 Through March 31, 2019			
Benchmark Costs		\$	1,474.43
Actual Costs		\$	1,368.97
GCIM Total Savings		\$	105.45
Ratepayer Savings		\$	88.66
Shareholder Reward		\$	16.79

1.2 Background

The objective of the GCIM is to provide an incentive for reducing natural gas procurement costs and other related costs such as: transportation, storage capacity, financial hedging, and retail core gas sales. The GCIM is used as a ratemaking tool to increase efficiency in administering regulatory controls. For gas utilities, it provides a framework in the form of a benchmark which indicates when actual purchase costs are within a stated range referred to as a "tolerance band." If SoCalGas' actual costs—as measured by the GCIM benchmark—are between the upper and lower range limitations of the tolerance band, there is no shareholder penalty or reward for the GCIM period. If actual gas costs fall above or below the tolerance band, then both SoCalGas ratepayers

and shareholders share in the resulting gains or losses. Chapter 2 of this Public Advocates Office Report presents the results of the tolerance band calculations. The following graph, Figure 1.1, illustrates how the tolerance band functions in determining the shared costs for SoCalGas' shareholders and ratepayers.



The upper limit of the tolerance band is set at two percentage points above the benchmark commodity costs. The lower limit of the tolerance band is set at one percentage point below this benchmark. When SoCalGas' actual costs fall within this tolerance band, the benefits or losses accrued go to the ratepayers.¹

In cases where actual costs fall outside the tolerance band, the benefits or losses are shared between shareholders and ratepayers. The amounts of these benefits or losses are based on whether the actual costs are outside the upper or lower limits of the tolerance band. For example, if actual costs exceed the upper two (2%) percent tolerance limit, the excess costs are shared 50-50 between ratepayers and shareholders. If actual costs are below the benchmark commodity costs and between

¹ See SoCalGas, D.02-06-023, 2002 Cal. PUC LEXIS 352, at *10 and *37-38 (respectively, Settlement and Ord. Para. 1) (dated June 6, 2002).

the lower one (1%) percent tolerance limit and the five (5%) percent range, this will generate savings that are shared at twenty-five (25%) percent for shareholders and seventy-five (75%) percent for ratepayers. If actual costs are more than five percentage points below the benchmark commodity costs, the savings are shared as ninety (90%) percent savings for ratepayers and a ten (10%) percent reward for shareholders. The SoCalGas reward is capped at 1.5 percent of actual commodity costs.

Commission Decision (D.) 94-03-076 originally approved the GCIM program, with subsequent changes and extensions that essentially enhanced the program incentives. D.10-01-023 changed the treatment of winter hedging costs by allowing twenty-five (25%) percent of net hedging gains and losses related to winter gas purchases to flow through to the GCIM calculation, and seventy-five (75%) percent of costs to be passed through directly to core customers.

1.3 GCIM Summary

Table 1-2 below provides a summary of GCIM results over the past five years. Chapter 2 of the Public Advocates Office’s Report presents supporting calculations for GCIM Year 25.

TABLE 1-2 Southern California Gas Company Summary of Ratepayer Savings and Shareholder Rewards				
GCIM Year	Period	Total Cost Savings	Ratepayer Savings	Shareholder Rewards
21	2014-2015	43.11	35.86	7.25
22	2015-2016	28.16	23.12	5.04
23	2016-2017	27.15	22.92	4.23
24	2017-2018	61.72	50.37	11.35
25	2018-2019	105.45	88.66	16.79

1.4 Natural Gas Storage

To ensure dedicated core storage capacity, in D.06-10-029 the Commission authorized SoCalGas to revise its Preliminary Statement, Part VIII and the GCIM to reflect changes to its mid-season minimum core inventory targets. These changes require SoCalGas to seek agreement from the Public Advocates Office and The Utility Reform Network (TURN) prior to making any revisions to its mid-season minimum core inventory targets.² In D.18-01-005, the Commission ordered SoCalGas to confer with the Public Advocates Office if its mid-season core storage inventory will be less than 47 Bcf on July 31 of each calendar year. D.18-01-005 also requires SoCalGas to provide

² See *SoCalGas*, D. 06-10-029, 2006 Cal. PUC LEXIS 398, at *15 (Ord. Para. 3 approving and adopting “Joint Recommendations” [id. at *11] to allow changes in mid-season minimum core inventory targets).

notification of its mid-season and annual core storage inventory target to the Commission's Energy Division. For GCIM Year 25, SoCalGas met the July 31 mid-season storage target. As of October 31, 2018, SoCalGas reported the annual storage inventory was below the November 1st annual storage target and did not meet the storage target.

In D.08-12-020, the Commission adopted the Phase One Settlement Agreement (dated August 22, 2008),³ which eliminates the upper tolerance band for core storage. By combining San Diego Gas & Electric Company's (SDG&E) and SoCalGas' balancing requirements, this ensures sufficient storage for core customers in Southern California. As of April 1, 2009, SoCalGas has implemented the core balancing requirements. For this reporting period, SoCalGas did not report any core imbalance charges.

1.5 Financial Hedging in GCIM

In accordance with D.10-01-023, effective April 2010, SoCalGas is not required to file a Winter Hedging Plan Report.⁴ Instead, SoCalGas includes twenty five (25%) percent of all net gains and losses of its winter hedging transactions in the GCIM. The remaining seventy-five (75%) percent is excluded, which results in costs passed through to core customers. The Public Advocates Office reviewed SoCalGas' financial derivative gains and losses based on the methodology and according to Commission policies and practices, as described in Chapter 2, Sections 2.10 and 2.11 of the Public Advocates Office's Report.

In addition to core winter hedges, SoCalGas transacted non-winter hedges. For this period, SoCalGas' non-winter hedge results are also included in the GCIM.⁵ Table 1-3 below shows the results of SoCalGas' hedging activities for the most recent five-year GCIM periods.

GCIM Year	Losses/(Gains) Outside the GCIM	Losses/(Gains) Inside the GCIM	Total Hedging Losses/(Gains)
21	\$ 1.52	\$ 0.45	\$ 1.97
22	\$ 0.52	\$ 0.26	\$ 0.78
23	\$ 1.99	\$ 0.61	\$ 2.60
24	\$ 0.63	\$ 0.19	\$ 0.82
25	\$ (4.91)	\$ (2.07)	\$ (6.98)

³ See SoCalGas, D.08-12-020, 2008 Cal. PUC LEXIS 482, at *47 (Ord. Para. 1 adopting) (dated Dec. 4, 2008).

⁴ See SoCalGas, D.10-01-023, 2010 Cal. PUC LEXIS 5, at *100 (Ord. Para. 5) (dated Jan. 25, 2010).

⁵ See *infra* at sec. 2.10 ("Financial Derivatives").

1.6 Interstate Capacity

In D.04-09-022, the Commission established interstate pipeline contract approval procedures for SoCalGas, SDG&E, and Pacific Gas and Electric Company (PG&E).⁶ These procedures included authorized capacity planning ranges to provide flexibility in meeting the utilities' regional market demands and regulatory compliance requirements regarding their Biennial Cost Allocation Proceedings (BCAP) or advice letter filings.⁷

In accordance with the capacity guideline procedures established by D.04-09-022, SoCalGas, the Public Advocates Office, TURN, and the Commission's Energy Division conduct on-going discussions regarding interstate capacity requirements and SoCalGas' acquisition of interstate capacity. The Public Advocates Office serves as a resource for addressing compliance issues that impact acquisition and/or reduction of interstate capacity.⁸

Effective September 2, 2016, Advice Letter 5006 governs SoCalGas' capacity planning range for its combined gas portfolio with SDG&E for its winter and non-winter requirements.⁹ The updated minimum capacity for non-winter requires 958 MDth/d, and maximum capacity of 1,278 MDth/d. For winter, the combined portfolio minimum capacity is 1,065 MDth/d and maximum capacity is 1,278 MDth/d.¹⁰

For GCIM Year 25, SoCalGas' report shows that for actual monthly activities of core firm transportation capacity holdings, the minimum capacity requirements established by D.04-09-022 were met.

1.7 Secondary Market Services Transactions

Secondary Market Services (SMS) generate revenues from core gas supplies and resources not needed for reliability requirements. SoCalGas meets this regional market demand while simultaneously applying these revenues to directly offset core commodity costs. As a result, this reduces core gas costs, which achieves SoCalGas' primary objectives of ensuring supply and service reliability at a low cost.¹¹

For the GCIM Year 25 period, SoCalGas shows net SMS revenues of \$42,789,939.¹² These revenues offset part of the gas costs and enable SoCalGas to lower its core commodity costs.

⁶ OIR, D.04-09-022, 2004 Cal. PUC LEXIS 522, at *140 (Ord. Para. 2) (dated Sept. 2, 2004).

⁷ *Id.* at *137 (Concl. of Law 6).

⁸ *Id.* at *18 ("SoCalGas' Gas Acquisition Department will consult with Public Advocates Office, the Energy Division and TURN on a monthly basis.").

⁹ See Letter from E. F. Randolph, Dir. of Comm. Energy Div., to R. Leeden, SoCalGas Dir. of Reg. Affairs, (Sept. 2, 2016, approving SoCalGas, Adv. Letr 5006, (Aug. 30, 2016).

¹⁰ See SoCalGas GCIM Yr. 25 Rept. at section, "Southern California Gas Company Firm Transportation Capacity Holdings as of March 31, 2019."

¹¹ See A.12-06-005, at pp. 3-4.

¹² See *infra* at sec. 2.12 ("Review of Secondary Market Services Revenues").

1.8 Conclusion

The Public Advocates Office's review verified that for GCIM Year 25, SoCalGas' total savings amount was \$105,458,697. Pursuant to its reviews, the Public Advocates Office recommends that SoCalGas' shareholders receive a reward in the amount of \$16,798,695. The Public Advocates Office confirms that for the GCIM Year 25 reporting period, ratepayer benefits amounted to \$88,660,002. In collaboration with SoCalGas and other parties, the Public Advocates Office will continue to monitor and evaluate the GCIM to identify any changes needed to improve the GCIM's effectiveness, which SoCalGas and the Public Advocates Office would submit to the Commission for approval and adoption.

CHAPTER 2 MONITORING AND EVALUATION AUDIT

2.1 Public Advocates Office's GCIM Reward Evaluation

On June 14, 2019, SoCalGas filed its GCIM Year 25 Application which reports core gas procurement results for the period April 1, 2018 through March 31, 2019. Per Decision (D.) 94-03-076, the Public Advocates Office conducted a review and evaluation of SoCalGas' annual GCIM report. The results of the Public Advocates Office's review and evaluation are presented in this report and the supporting work papers are included in Appendix A.

The Public Advocates Office's evaluation of SoCalGas' GCIM performance for the year ending March 31, 2019, confirmed a total savings of \$105,458,697 in gas costs. These savings are based on the difference between the actual gas commodity costs of \$1,368,973,254 and the GCIM benchmark commodity costs of \$1,474,431,951. As part of its audit of SoCalGas' Year 25 report, the Public Advocates Office verified that the GCIM sharing mechanism resulted in a ratepayer savings of \$88,660,002 and a shareholder reward of \$16,798,695. Table 2-1 below summarizes the SoCalGas GCIM Year 25 savings based on the calculated tolerance band levels.

TABLE 2-1 Southern California Gas Company Reward Calculation GCIM Year 25 April 1, 2018 Through March 31, 2019		
		SCG Annual Report
Benchmark Costs		\$ 1,474,431,951
Actual Costs		\$ 1,368,973,254
GCIM Year 25 Annual Report: Total Savings Below Benchmark		\$ 105,458,697
Amount of Lower Tolerance Band Not Subject to Sharing (0%-1%)		\$ 12,505,650
Ratepayers' share:		\$ 12,505,650
Amount Subject to 75%-25% Sharing (1%-5%)		\$ 50,022,600
Ratepayers' share: 75%	75%	\$ 37,516,950
Shareholders' share: 25%	25%	\$ 12,505,650
Amount Subject to 90%/10% Sharing (> 5%)		\$ 42,930,447
Ratepayers' share: 90%	90%	\$ 38,637,402
Shareholders' share: 10%	10%	\$ 4,293,045
Cap on Shareholder Rewards = 1.5% of commodity costs:		
Total Commodity costs:		\$ 88,660,002
Shareholder Reward Cap:	1.50%	\$ 17,176,595
Total Ratepayers' Share:		\$ 88,660,002
Total Shareholders' Share:		\$ 16,798,695
Total Savings:		\$ 105,458,697

2.2 Summary of Benchmark and Actual Costs

Table 2-2 below shows an annual summary of the monthly gas commodity costs that are the basis for the 1.5% cap of the shareholder reward shown in Table 2-1. The calculated tolerance bands and the related actual commodity cost of gas are measured annually against a benchmark. The benchmark is based on the prevailing published natural gas price indices for gas delivered from the mainline to the California border.

TABLE 2-2
Southern California Gas Company
Tolerance Band Review
GCIM Year 25
April 1, 2018 Through March 31, 2019

Month	Benchmark Dollars*	Actual Dollars*	(Over)/Under Benchmark	Lower Tolerance 1%	Lower Tolerance 5%	Actual Commodity Cost
Apr-18	\$ 63,030,103	\$ 59,886,380	\$ 3,143,724	\$ 44,353,047	\$ 42,561,005	\$ 41,657,334
May-18	\$ 63,366,385	\$ 57,228,128	\$ 6,138,257	\$ 45,200,382	\$ 43,374,104	\$ 39,518,695
Jun-18	\$ 66,879,672	\$ 63,235,376	\$ 3,644,296	\$ 50,492,384	\$ 48,452,287	\$ 47,358,112
Jul-18	\$ 62,331,601	\$ 23,255,017	\$ 39,076,584	\$ 46,422,588	\$ 44,546,928	\$ 7,814,919
Aug-18	\$ 230,192,103	\$ 206,683,977	\$ 23,508,127	\$ 211,721,883	\$ 203,167,463	\$ 190,352,361
Sep-18	\$ 98,182,076	\$ 89,804,221	\$ 8,377,855	\$ 81,435,264	\$ 78,144,950	\$ 73,879,988
Oct-18	\$ 55,581,687	\$ 47,507,606	\$ 8,074,081	\$ 38,004,911	\$ 36,469,359	\$ 30,314,718
Nov-18	\$ 95,038,868	\$ 90,596,686	\$ 4,442,182	\$ 75,703,633	\$ 72,644,900	\$ 72,026,134
Dec-18	\$ 263,438,622	\$ 233,308,105	\$ 30,130,517	\$ 237,437,881	\$ 227,844,432	\$ 209,705,726
Jan-19	\$ 191,286,786	\$ 181,859,681	\$ 9,427,106	\$ 166,003,230	\$ 159,296,029	\$ 158,252,925
Feb-19	\$ 143,228,274	\$ 177,846,725	\$ (34,618,451)	\$ 120,527,986	\$ 115,658,169	\$ 156,363,892
Mar-19	\$ 141,875,773	\$ 137,761,353	\$ 4,114,421	\$ 120,756,169	\$ 115,877,132	\$ 117,861,508
	\$ 1,474,431,951	\$ 1,368,973,254	\$ 105,458,697	\$ 1,238,059,358	\$ 1,188,036,758	\$ 1,145,106,311
	*Included transportation costs and reservation costs.					

2.3 Review of Benchmark Volumes and Costs

Table 2-3 shows the components of the Mainline and Border Benchmark Costs. The Public Advocates Office’s review of GCIM Year 25 records confirms the total Benchmark Dollar Costs of \$1,474,431,951.

The Total Benchmark Commodity Costs consist of Mainline Benchmark Commodity Costs of \$592,788,993 and Benchmark Border Commodity Costs of \$657,776,016 which are calculated based on the Southern California Border Costs of \$199,968,721, and SoCalGas CityGate Commodity Cost of \$457,807,295.

The Total Benchmark Dollar Costs include \$3,874,170 in flow through costs of volumetric interstate Transportation Cost from Mainline; \$219,992,773 of interstate capacity Benchmark Reservation Charges; and \$1,250,565,009 in Total Benchmark Commodity Costs for a total of \$1,474,431,951.

TABLE 2-3 Southern California Gas Company Benchmark Dollar Components GCIM Year 25 April 1, 2018 Through March 31, 2019				
				Benchmark
Annual Report:				Dollars
Mainline Benchmark Costs				\$ 592,788,993
Southern California Border Costs			199,968,721	
SoCalGas City-Gate Commodity Costs			457,807,295	
Sub-Total Border Benchmark Commodity Costs				\$ 657,776,016
Total Benchmark Commodity Costs				\$ 1,250,565,009
Flow-Through Costs				
Transport Costs from pipelines				\$ 3,874,170
Benchmark Reservation Charges				\$ 219,992,773
Rounding				\$ (1)
Total Benchmark Dollar Costs:				\$ 1,474,431,951

Table 2-3A shows 369,322,675 MMBtus in Net Total Benchmark Volume for the period from April 2018 through March 2019. This net total is comprised of the following: (i) 249,619,076 MMBtus, which is the Benchmark Mainline Volumes total; (ii) 55,266,364 MMBtus, which is the Benchmark Border Volumes total for the same period; and (iii) 64,437,235 MMBtus, which is the Benchmark SoCalGas CityGate Volumes total. The Actual Transported Volume of 363,512,498 MMBtus is the total purchased volumes that SoCalGas received during the GCIM Year 25 period.

TABLE 2-3A Southern California Gas Company Benchmark Market Volumes (In MMBtus) GCIM Year 25 April 1, 2018 Through March 31, 2019			
Benchmark Mainline Volumes		249,619,076	
Benchmark Border Volumes		55,266,364	
Benchmark Citygate Volumes		64,437,235	
Net Total Benchmark Volumes			369,322,675
Actual Transported Volumes			363,512,498

2.4 Actual Gas Costs and Volumes

Table 2-4 shows the Actual Gas Costs Components consisting of Mainline Commodity Purchases, Border and CityGate Purchases, Gas Sales revenues, Other Revenues/Costs, Interstate Volumetric Transportation Costs, and Reservation Charges. The Public Advocates Office found that SoCalGas' records supported the volumes and corresponding dollar amounts for each of these components, as reflected in Table 2-4.

The Total Mainline and Border Purchases of \$1,452,866,318 consist of Mainline Commodity Purchases of \$658,142,607 and Border and CityGate Purchases of \$794,723,711. The Total Gas Sale of \$263,310,607 consists of Main Sales of \$75,624,410; Border Sales of \$42,821,955; and SoCalGas CityGate of \$144,864,242. The Total Revenue and Costs of \$44,449,398 consist of (i) \$42,789,939 in Net Secondary Market Service Revenues; (ii) \$2,062,884 in gains from GCIM Derivative Transactions, and (iii) \$403,425 in an Off-System Parking Fee. These are all included as part of the Actual Commodity Costs. Total Commodity Costs of \$1,145,106,313 consist of (i) Total Mainline and Border Purchases of \$1,452,866,318; (ii) Total Gas Sale of \$263,310,607; and (iii) Total Other Revenues/Costs of \$44,449,398.

SoCalGas' records show the calculation of the Interstate Volumetric Transportation Costs as \$3,874,170, and firm Reservation Charges as \$219,992,773. The sum of these costs and charges was added to the Total Commodity Costs of \$1,145,106,313 and resulted in the corresponding total volume and costs of \$1,368,973,254, as shown on the last line in Table 2-4.

The Total Mainline and Border Purchase volume of 446,445,445 MMBtus is comprised of the totals for two types of gas purchases and their corresponding volumes: (i) Total Mainline Purchases (292,949,265 MMBtus); and (ii) Total Border and CityGate Purchases (153,496,180 MMBtus).

The Total Gas Sale Volumes of 77,122,770 MMBtus is comprised of the following gas sales and their corresponding volumes: (i) Mainline (43,330,189 MMBtus); (ii) Border (12,670,254 MMBtus); and (iii) SoCalGas CityGate (21,122,327 MMBtus). The Total Gas Sales Volumes of 77,122,770 MMBtus was subtracted from the Total Mainline and Border Purchases Volumes of 446,445,445 MMBtus to arrive at the Total Volume and Costs figure of 369,322,675 MMBtus.

TABLE 2-4
Southern California Gas Company
Actual Gas Costs Components
GCIM Year 25
April 1, 2018 Through March 31, 2019

Mainline Commodity Purchases	Volumes	Dollars
El Paso Permian	72,546,620	\$ 114,674,217
El Paso San Juan	93,848,421	213,117,232
Transwestern Permian	5,020,946	7,738,955
Transwestern San Juan	24,519,036	59,371,672
Kern River Pipeline	75,150,272	236,229,373
Enterprise-Waha	-	-
NOVA-AECO/NIT	21,328,164	24,957,260
GTN: Kingsgate/Malin/Stanfield	535,806	2,053,897
Total Mainline	292,949,265	\$ 658,142,607
Border and City Gate Purchases		
Border	67,936,618	\$ 237,094,230
SoCalGas-City Gate	85,559,562	557,629,481
Total Border	153,496,180	\$ 794,723,711
Total Mainline and Border Purchase	446,445,445	\$ 1,452,866,318
Gas Sales (deducting)		
Mainline Sales	(43,330,189)	\$ (75,624,410)
Border Sales	(12,670,254)	(42,821,955)
SoCalGas- City Gate Sales	(21,122,327)	(144,864,242)
Total Gas Sales	(77,122,770)	\$ (263,310,607)
Other Revenues/Costs		
Net Secondary Market Revenue:		\$ (42,789,939)
GCIM Derivative Transactions		(2,062,884)
Off System Parking Fee		403,425
Total Other Revenues/Costs		\$ (44,449,398)
Total Commodity Costs		\$ 1,145,106,313
Interstate Reservation and Volumetric Transport Cost		
Interstate Volumetric Transport Costs		\$ 3,874,170
Reservation Charges		219,992,773
Total Related Commodity Costs		\$ 223,866,943
Rounding		\$ (2)
Total Volume and Costs	369,322,675	\$ 1,368,973,254

2.5 Mainline and Border Gas Sales

Table 2-5 below provides a breakdown of SoCalGas' gas sales by pipeline. In addition, a compilation of gas sales and volumes for the period is shown in Appendix A.

SoCalGas reported gas purchases and sales transactions with affiliate Sempra Generation, SDG&E, and SoCalGas Capacity Products. SoCalGas reports that all purchases and sales were completed through arm's length transactions via brokerage firms.

TABLE 2-5 Southern California Gas Company Summary of Mainline and Border Sales GCIM Year 25 April 1, 2018 Through March 31, 2019		
Mainline Pipelines	Sales	Volume (MMBtus)
El Paso Permian	\$ (53,057,666)	(32,569,603)
El Paso San Juan	(12,359,543)	(5,430,329)
Transwestern Permian	(634,882)	(303,304)
Transwestern San Juan	(2,227,785)	(959,784)
Kern River	(4,482,482)	(1,480,400)
Enterprise Waha	-	-
NOVA-AECO	(2,591,974)	(2,498,269)
GTN-Kingsgate/Stanfield/Malin	(270,078)	(88,500)
Total Mainline	\$ (75,624,410)	(43,330,189)
Border Pipelines	Sales	Volume (MMBtus)
Border	\$ (42,821,955)	(12,670,254)
SoCal City-Gate	(144,864,242)	(21,122,327)
Total Border	\$ (187,686,197)	(33,792,581)
Total Sales to Volume	\$ (263,310,607)	(77,122,770)

2.6 Interstate Volumetric Transport Costs

The volumetric transport costs are variable costs and based on the volume of interstate pipeline gas supplies delivered at the SoCal Border. The total interstate volumetric transportation costs for GCIM Year 25 are shown in Table 2-6. The table shows the Summary of the Actual Pipeline Commodity Transported Costs by pipeline. The total aggregate volumetric transport costs for the period were \$3,874,170 which is comprised of \$1,940,637 in El Paso transport costs; \$473,573 in Transwestern costs; \$568,873 in Kern River costs; \$7,424 in Northwest costs; \$275,489 in Canadian Path costs; and \$608,174 in Mexican Path costs.

TABLE 2-6 Southern California Gas Company Summary of Actual Pipeline Commodity Transport Costs GCIM Year 25 April 1, 2018 Through March 31, 2019		
		Transport Cost
El Paso		\$ 1,940,637
Transwestern		473,573
Kern River		568,873
Northwest		7,424
Canadian Path		275,489
ETP		-
Mexican Path		608,174
	Total Transportation Costs	\$ 3,874,170

2.7 Interstate Reservation Charges

Table 2-7 shows monthly reservation charges by pipeline for the GCIM Year 25 period. The reservation charges were: El Paso Pipeline \$74,498,771; Transwestern Pipeline \$12,573,006; Kern River Pipeline \$19,465,540; Canadian Path Pipeline \$12,803,575; Northwest Pipeline \$16,815; and North Baja Pipeline \$1,103,692. For the GCIM Year 25 period, Backbone Transport Service contracts totaled \$99,531,374 and the Total Reservation Charges for the period were \$219,992,773.

TABLE 2-7 Southern California Gas Company Summary of Reservation Charges By Pipeline GCIM Year 25 April 1, 2018 Through March 31, 2019		
		Reservation Charge
El Paso		\$ 74,498,771
Transwestern		12,573,006
Kern River		19,465,540
Canadian Path		12,803,575
Northwest		16,815
North Baja		1,103,692
Enterprise Texas		-
Backbone Transportation		99,531,374
	Total Reservation Charges	\$ 219,992,773

2.8 Interstate Pipeline Utilization

In D.04-09-022, the Commission required SoCalGas to track each pipeline's utilization of capacity.¹³ Table 2-8 provides an overview of SoCalGas' nominated capacity for each pipeline listed. Total Core Capacity for all the pipelines was 445,952,247 MMBtus and Total Nominated Capacity was 309,704,128 MMBtus. The difference between these two total amounts is the unutilized capacity of 136,248,119 MMBtus, which is adjusted from core capacity.

Regarding the interstate pipelines, for GCIM Year 25, SoCalGas reported El Paso at 54% capacity; Foothills Pipeline, Ltd at 98%; Gas Transmission Northwest Corp. at 97%; Kern River Gas Transmission at 98%; NOVA at 96% (Canadian Path); Pacific Gas and Electric pipeline at 97%; Transwestern Pipeline Company at 55%; North Baja Pipeline Company at 70%; and Northwest Pipeline LLC at 93%. To arrive at 305,731,128 MMBtus of Total Actual Volume delivered, the Capacity Cut of 3,972,963 MMBtus is subtracted from nominated capacity of 309,704,128 MMBtus.

Pipeline	Core Capacity	Less: Nominated Capacity	Unutilized Capacity	Capacity Utilization Percentage	Nominated Capacity	Actual Volumes Received	Capacity Cut
El Paso Natural Gas Co	234,110,372	127,539,535	106,570,837	54%	127,539,535	126,033,552	1,505,983
Foothills Pipelines Ltd	19,544,264	19,098,077	446,187	98%	19,098,077	18,544,063	554,014
Gas Trans Northwest Corp	19,165,420	18,632,084	533,336	97%	18,632,084	18,138,668	493,416
Kern River Gas Trans. Co	73,416,950	72,166,792	1,250,158	98%	72,166,792	71,633,961	532,831
Nova Gas Trans Ltd	19,804,091	18,930,071	874,020	96%	18,930,071	18,929,669	402
Pacific Gas & Electric	19,213,100	18,693,789	519,311	97%	18,693,789	18,234,118	459,671
Transwesten Pipeline Co	51,339,100	28,007,835	23,331,265	55%	28,007,835	27,643,058	364,777
North Baja Pipeline Co	9,022,650	6,324,388	2,698,262	70%	6,324,388	6,300,469	23,919
Northwest Pipeline LLC	336,300	311,557	24,743	93%	311,557	273,607	37,950
Total	445,952,247	309,704,128	136,248,119	69%	309,704,128	305,731,165	3,972,963

2.9 Examination of the Purchased Gas Account

Table 2-9 provides a Purchased Gas Account (PGA) reconciliation of the GCIM gas commodity costs. The PGA is for utilities to balance the recorded cost of gas and the corresponding revenues from the sale of that gas. For GCIM Year 25, total PGA commodity costs equaled \$1,188,603,183 and reported GCIM commodity costs for SoCalGas' gas portfolio purchases were \$1,147,169,196 (excluding hedging costs),

¹³ See OIR, D.04-09-022, 2004 Cal. PUC LEXIS 522, at *140 (Ord. Para. 2) (dated Sept. 2, 2004).

which results in a variance of \$41,433,987. This variance consists of \$1,353,329 in costs excluded from the GCIM reported commodity costs and \$42,789,939 in net Secondary Market Services revenue, which is unreported in the PGA gas costs. Other adjustments were for timing differences of \$2,623 recorded in fees and other costs from other years.

TABLE 2-9 Southern California Gas Company PGA & GCIM Reconciliation of Commodity Cost GCIM Year 25 April 1, 2018 Through March 31, 2019			
Total PGA Commodity Costs		\$ 1,188,603,183	
Total GCIM Commodity Costs		\$ 1,147,169,196	
	Variance:	\$ 41,433,987	
Reconciliation:			
Total PGA Commodity Cost			\$ 1,188,603,183
PGA Costs Excluded from GCIM:			
Playa del Rey & Aliso Production	0		
Borrego Springs LNG	125,846		
Realized (Gain)/Loss from OTC Deriv. Trans.	14,500		
Realized (Gain)/Loss from Exchange-Traded Deriv. Trans.	(6,892,828)		
Realized (Gain)/Loss from Foreign Currency Exchange (GST & Demand Char	24,669		
Carrying Costs of Storage Inventory	1,490,152		
Transportation Chg in PGA Market Gas not in GCIM Commodity Cost (1.8.2)	3,884,332		
		1,353,329	
GCIM Related Transactions Excluded from PGA:			
Net SMS Revenue	\$ (42,789,939)		
Timing differences for transaction fees and other gas costs excluded from GCIM	\$ 2,623		
		\$ (42,787,316)	
			\$ (41,433,987)
		Total PGA Commodity Cost :	\$ 1,147,169,195
		Rounding:	\$ -
		Less: GCIM Commodity Cost:	\$ 1,147,169,196
		Difference:	\$ (0)

In addition to the PGA audit, the Public Advocates Office conducted a sampling test by randomly selecting purchase invoices. SoCalGas provided copies of supporting documents and purchase invoices for the purpose of the verification. The Public Advocates Office traced the cost of these purchase invoices to the monthly statements

and then to the annual report. The Public Advocates Office found that the selected purchase invoices reconciled with recorded amounts in the annual report.

2.10 Financial Derivatives

The Public Advocates Office performed a review of hedging transactions for financial derivative transactions reported in the PGA to confirm the appropriate GCIM calculation and to identify timing differences that were recognized within the GCIM period of April 1, 2018 through March 31, 2019.

Pursuant to D.10-01-023, twenty-five percent (25%) of winter hedging gains and losses were included in the GCIM actual costs.¹⁴ Table 2-10 shows the SoCalGas PGA Reconciliation of Financial Gains and Losses for all financial derivatives reported NYMEX transactions and over-the-counter (OTC) cleared transactions, as well as OTC swaps. Associated transaction fees are also included based on the date of contract and net results that may be a financial gain or loss. Transactions that result in gains and/or cash receipts are offset against losses. Other adjustments include reversal of fees from previous GCIM years.

TABLE 2-10 Southern California Gas Company PGA Reconciliation-Financial Gains & Losses GCIM Year 25 April 1, 2018 Through March 31, 2019				
NYMEX Traded/Cleared Transactions		GCIM	Recorded PGA	Variance
Exchange Traded Transactions (Gains)/Losses		\$ (2,075,420)		
Exchange Traded Transactions Costs		\$ 8,911		
Total:		\$ (2,066,509)	\$ (6,892,828)	\$ (4,826,319)
OTC Swaps				
OTC Swaps (Gains)/Losses		\$ -		
OTC Swap Transaction Costs		\$ 3,625		
Total:		\$ 3,625	\$ 14,500	\$ 10,875
Year 24 Financial (Gain)/Losses:		\$ (2,062,884)	\$ (6,878,328)	\$ (4,815,444)
Reconciliation:				
Reconciled Derivative PGA: 75% excluded Winter Hedge from GCIM				\$ (4,815,444)
Public Advocates Office's 75% excluded Winter Hedge From GCIM				\$ (4,884,443)
Adjusted Exchange Trade (Gain)/Losses in GIMC Yr 25, PGA 26				\$ 69,000.00
Variance				\$ (1)

¹⁴ OIR, D.10-01-023, 2010 Cal. PUC LEXIS 5, at *99 (Ord. Para. 4) (Jan. 25, 2010).

Financial hedging gains for the Year 25 GCIM period totaled \$2,062,884. This total is comprised of \$2,066,509 in NYMEX transactions and \$3,625 in OTC Swaps transactions. In compliance with D.10-01-023, seventy-five (75%) percent of the winter hedging losses are excluded from the GCIM and twenty-five (25%) percent of winter hedging losses are included in the GCIM calculation. For Year 25, \$4,884,443 represented seventy-five percent of winter hedging gains and \$1,628,148 represented twenty-five percent of winter hedging gains to be included in the GCIM calculation.¹⁵ In general, natural gas prices are determined through the interaction of two types of markets: cash/financial markets and physical quantities of natural gas. The market involves the purchase and sale of both when the physical quantities and financial instrument prices are connected to the price of natural gas in the physical market.

Publishers of industry newsletters such as *Platts* and *Natural Gas Intelligence* take surveys of the price of transactions at a hub or CityGate, where natural gas is delivered and/or sold. The surveyed prices are calculated into an average which then results in an index of those prices. These index prices are used to base the price of gas at the hub, CityGate or a specified location.

For hedging natural gas commodities, the most commonly used financial instruments are OTC and exchange derivatives often referred to as options and swaps. These financial instruments are traded in the form of standardized contracts. This standardization provides ease of transfer and the identification of prices.¹⁶ These hedging transactions will generally incur related transaction fees for the purchase of the hedging contract, such as broker and premium fees.

SoCalGas claims to regularly assess and review on a real time basis natural gas market fundamentals. Based on its review and assessment, the utility uses price trends, market fundamentals, and/or risk avoidance to optimize hedging transactions. To forecast natural gas prices, SoCalGas uses current future prices and basis values provided by Intercontinental Exchange (ICE) and/or NYMEX.

2.11 Winter Hedges

For GCIM Year 25, SoCalGas reported \$6,512,591 of winter hedging net gains. Table 2-11 shows twenty-five (25%) percent of the net gains at \$1,628,148, which is included in the GCIM. The Public Advocates Office confirmed that \$4,884,443 or seventy-five (75%) percent of total winter hedging gains were excluded from the GCIM and included in the PGA for GCIM Year 25. These gains or losses are directly allocated to core customers for the period. In addition, SoCalGas reported winter hedging transactions for OTC swap/option gains and losses, contract costs that include premiums, and transaction costs for broker fees.

¹⁵ See *Public Advocates Office GCIM Year 25 Report*, Exhibits, Hedge Detail.

¹⁶ U.S. Senate Permanent Committee on Investigations: Excessive Speculation in the Natural Gas Market, July 9, 2007.

For purposes of reconciliation, the Public Advocates Office determined related hedging costs based on the contract date. If the contract date is beyond March 31, it is excluded from the GCIM Year 25 reporting period.

TABLE 2-11 Southern California Gas Company Winter Financial Derivatives (Gains) Losses GCIM Year 25 April 1, 2018 Through March 31, 2019					
Month	Winter Hedge (Gain)/Losses Included in GCIM	Winter Hedge Fee Included in GCIM	Winter Hedge (Gain)/Losses Excluded From GCIM	Winter Hedge Fee Excluded From GCIM	Winter Hedge Total
Apr-18	\$ -	\$ -	\$ -	\$ -	\$ -
May-18	\$ -	\$ -	\$ -	\$ -	\$ -
Jun-18	\$ -	\$ -	\$ -	\$ -	\$ -
Jul-18	\$ -	\$ -	\$ -	\$ -	\$ -
Aug-18	\$ -	\$ 212	\$ -	\$ 635	\$ 846
Sep-18	\$ 18,625	\$ 149	\$ 55,875	\$ 447	\$ 75,096
Oct-18	\$ 123,755	\$ 1,183	\$ 371,265	\$ 3,548	\$ 499,750
Nov-18	\$ (135,013)	\$ 4,332	\$ (405,038)	\$ 12,997	\$ (522,720)
Dec-18	\$ (1,503,500)	\$ 2,035	\$ (4,510,500)	\$ 6,105	\$ (6,005,860)
Jan-19	\$ (138,400)	\$ 869	\$ (415,200)	\$ 2,607	\$ (550,125)
Feb-19	\$ (2,450)	\$ 56	\$ (7,350)	\$ 167	\$ (9,578)
Mar-19	\$ -	\$ -	\$ -	\$ -	\$ -
Totals:	\$ (1,636,983)	\$ 8,835	\$ (4,910,948)	\$ 26,504	\$ (6,512,591)
	Hedge (Gain)/Loss	(1,636,983)		(4,910,948)	
	Fee	8,835		26,504	
	Rounding:	-		-	
	25% Winter Hedge Included in GCIM:	(1,628,148)	75% Winter Hedge Excluded From GCIM:	(4,884,443)	

2.12 Review of Secondary Market Services Revenues

SoCalGas manages its retail core procurement using its assets of storage inventory, injection, withdrawal rights, and core supplies and by applying these assets to Secondary Market Services (SMS). In particular, SoCalGas generates revenue by using core assets to execute SMS transactions and fees that are based on market conditions. When SoCalGas management determines that core assets are not directly needed to meet core customer demand and reliability, it will utilize SMS transactions to offset core gas costs. As Table 2-12 below shows, for GCIM Year 25, SMS revenue totaled

\$43,876,479 less \$1,086,539 in overhead costs which results in net revenue of \$42,789,939.

TABLE 2-12 Southern California Gas Company Summary of Secondary Market Service Revenues GCIM Year 25 April 1, 2018 Through March 31, 2019			
SMS Revenue			\$ (43,876,479)
Less Overhead			\$ 1,086,539
Rounding			\$ 1
		Net Revenues	\$ (42,789,939)

2.13 SoCalGas Core Storage Inventory Targets

In D.06-10-029, the Commission approved a Joint Recommendation by the Public Advocates Office, TURN and SoCalGas to modify the utility’s management and use of mid-season gas storage capacity for core customers.¹⁷ This recommendation requires more gas to enter storage during the summer months for core customer use during the winter heating season. This decision requires SoCalGas to obtain agreement from the Public Advocates Office and TURN for mid-season inventory targets. These targets must be maintained or an agreement from the Public Advocates Office and TURN is needed if changes to inventory storage targets are made by SoCalGas. In either case, these changes are reflected in the GCIM.

In D.08-12-020, the Commission adopted Phase 1 of SoCalGas’ 2009 Biennial Cost Allocation Proceeding, (BCAP) Settlement Agreement, expanding gas storage by 7 Bcf during the period of 2009 to 2014. Core storage inventory would receive an additional 4 Bcf beginning in 2009. The Settlement Agreement required incremental inventory capacity to increase by 1.0 Bcf each year starting in April 1, 2010 until April 1, 2013.

On December 14, 2012 SoCalGas filed Advice Letter 4436, which was approved by the Commission on January 13, 2013. This update changed the storage target from 79 Bcf to 82 Bcf with variance allowance from +5/-2 Bcf to +0/-2 Bcf.

On May 29, 2013, SoCalGas filed Advice Letter 4499, which updated the core inventory target from 82 Bcf to 83 Bcf +0/-2 Bcf. The utility would retain the core inventory target until further notice via an advice letter filing.

For the GCIM Year 25 mid-season storage, the Public Advocates Office’s review of SoCalGas’ inventory records show that the assigned core storage inventory level was 47.2 Bcf as of July 31, 2018. Thus the mid-season target was achieved.

¹⁷ SoCalGas, D.06-10-029, 2006 Cal. PUC LEXIS 398, at *3 (Joint Recommendation adopted and approved) (dated Oct. 19, 2006).

The GCIM November 1 storage inventory target was 83 Bcf with a variance allowance of +0/-2 Bcf. As of October 31, 2018, SoCalGas reported the annual storage inventory was at 73.0 Bcf, which is below the storage inventory target. The data shows that SoCalGas did not meet the core inventory target requirements due to unavailable storage capacities.

TABLE 2-13 Southern California Gas Company Core Storage Inventory for Summer and Winter Targets GCIM Year 25 April 1, 2018 Through March 31, 2019		
	7/31/18	10/31/18
Bcf Target	-	83 +0/-2
Core Physical Inventory	51.2	70.7
Less:		
Secondary Market Services	4.0	(1.9)
Add:		
CAT	-	4.2
Total Core Storage Inventory	47.2	73.0
Note: CAT inventory only excluded in July		

2.14 Interstate Capacity Procurement

In Advice Letter 5006-G, effective September 2, 2016, the Commission authorized SoCalGas to update its Capacity Planning Range which was based on the California Gas Report for 2016.¹⁸ The filing was to comply with D.04-09-022 and Advice Letter 3969-G to update SoCalGas and SDG&E's combined portfolio capacity for the winter and non-winter seasons. Table 2-14 provides a summary of the minimum and maximum capacity values by season for the reporting period.

¹⁸ See Letter from E. F. Randolph, Dir. of Comm. Energy Div., to R. Leeden, Dir. of Reg. Affairs, SoCalGas (Sept. 2, 2016, approving and made effective SoCalGas, Adv. Letr 5006, dated Aug 30, 2016).

TABLE 2-14 Southern California Gas Company Capacity Ranges GCIM Year 25 April 1, 2018 Through March 31, 2019		
	Minimum Capacity	Maximum Capacity
Non-Winter (April to October)	958 MDth/d	1,278 MDth/d
Winter (November to March)	1,065 MDth/d	1,278 MDth/d

The update enabled SoCalGas to hold firm interstate pipeline capacity at no less than 90% of its forecasted core average daily load during the spring and summer months and no less than 100% during the fall and winter months. This established a minimum firm capacity of 958 MDth/d for the period of April 2018 to October 2018 and 1,278 MDth/d for November 2018 to March 2019. In Appendix C of SoCalGas' GCIM Year 25 Application (A.19-06-009), SoCalGas presents the actual capacity performance.

Proportionally, SoCalGas maintained a gas supply portfolio consisting of approximately 73% long-term supply agreements; 30% month-to-month base load agreements; and 3% daily transactions (purchases and sales) as result of net sales.¹⁹

¹⁹ See *SoCalGas Data Responses*, A.19-06-009_GCIM Year 25_MDR Q 4, dated June 27, 2019

APPENDIX A

EXHIBITS FOR PUBLIC ADVOCATES OFFICE REPORT

2-1
Southern California Gas Company
Total Actual Cost Summary
GCIM Year 25
April 1, 2018 through March 31, 2019

	Actual Commodity Cost	Transportation Cost	Reservation Charge	Total Actual Cost
Apr-18	\$ 41,657,334	\$ 492,309	\$ 17,736,736	\$ 59,886,380
May-18	\$ 39,518,695	\$ 445,393	\$ 17,264,041	\$ 57,228,128
Jun-18	\$ 47,358,112	\$ 260,318	\$ 15,616,946	\$ 63,235,376
Jul-18	\$ 7,814,919	\$ (376,218)	\$ 15,816,316	\$ 23,255,017
Aug-18	\$ 190,352,361	\$ 269,072	\$ 16,062,543	\$ 206,683,977
Sep-18	\$ 73,879,988	\$ 269,939	\$ 15,654,295	\$ 89,804,221
Oct-18	\$ 30,314,718	\$ 383,946	\$ 16,808,942	\$ 47,507,606
Nov-18	\$ 72,026,134	\$ 242,944	\$ 18,327,608	\$ 90,596,686
Dec-18	\$ 209,705,726	\$ 428,472	\$ 23,173,906	\$ 233,308,105
Jan-19	\$ 158,252,925	\$ 708,544	\$ 22,898,212	\$ 181,859,681
Feb-19	\$ 156,363,892	\$ 484,258	\$ 20,998,574	\$ 177,846,725
Mar-19	\$ 117,861,508	\$ 265,193	\$ 19,634,652	\$ 137,761,353
Total	\$ 1,145,106,311	\$ 3,874,170	\$ 219,992,773	\$ 1,368,973,254

**Southern California Gas Company
Benchmark Cost Summary
GCIM Year 25**

April 1, 2018 through March 31, 2019

	Benchmark Commodity Cost	Transportation Cost	Reservation Charge	Total Benchmark Cost
Apr-18	\$ 44,801,058	\$ 492,309	\$ 17,736,736	\$ 63,030,103
May-18	\$ 45,656,951	\$ 445,393	\$ 17,264,041	\$ 63,366,385
Jun-18	\$ 51,002,408	\$ 260,318	\$ 15,616,946	\$ 66,879,672
Jul-18	\$ 46,891,503	\$ (376,218)	\$ 15,816,316	\$ 62,331,601
Aug-18	\$ 213,860,488	\$ 269,072	\$ 16,062,543	\$ 230,192,103
Sep-18	\$ 82,257,843	\$ 269,939	\$ 15,654,295	\$ 98,182,076
Oct-18	\$ 38,388,799	\$ 383,946	\$ 16,808,942	\$ 55,581,687
Nov-18	\$ 76,468,316	\$ 242,944	\$ 18,327,608	\$ 95,038,868
Dec-18	\$ 239,836,244	\$ 428,472	\$ 23,173,906	\$ 263,438,622
Jan-19	\$ 167,680,030	\$ 708,544	\$ 22,898,212	\$ 191,286,786
Feb-19	\$ 121,745,441	\$ 484,258	\$ 20,998,574	\$ 143,228,274
Mar-19	\$ 121,975,928	\$ 265,193	\$ 19,634,652	\$ 141,875,773
Total	\$ 1,250,565,008	\$ 3,874,170	\$ 219,992,773	\$ 1,474,431,951

2-3
Southern California Gas Company
Actual Commodity Purchases Costs
GCIM Year 25

	April 1, 2018 through March 31, 2019													
	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total	
Mainline Purchases	\$ 34,266,725	\$ 41,175,495	\$ 42,987,023	\$ 43,666,367	\$ 45,952,923	\$ 41,758,102	\$ 38,366,541	\$ 46,849,436	\$ 94,265,938	\$ 95,857,334	\$ 72,821,919	\$ 60,174,804	\$ 658,142,607	
Border Purchases	\$ 16,430,592	\$ 16,320,585	\$ 20,479,043	\$ 40,560,214	\$ 177,698,413	\$ 65,223,227	\$ 30,581,665	\$ 43,857,172	\$ 141,065,445	\$ 72,495,890	\$ 93,877,417	\$ 76,134,048	\$ 794,723,710	
Total Commodity Purchases	\$ 50,697,317	\$ 57,496,079	\$ 63,466,066	\$ 84,226,581	\$ 223,651,336	\$ 106,981,329	\$ 68,948,206	\$ 90,706,607	\$ 235,331,384	\$ 168,353,224	\$ 166,699,336	\$ 136,308,853	\$ 1,452,866,317	
Mainline Sales	\$ (2,104,391)	\$ (8,953,475)	\$ (8,859,082)	\$ (11,481,754)	\$ (6,076,017)	\$ (4,214,016)	\$ (6,120,878)	\$ (9,713,497)	\$ (4,929,355)	\$ (4,401,560)	\$ (4,986,330)	\$ (3,784,056)	\$ (75,624,410)	
Border Sales	\$ (4,494,944)	\$ (4,229,916)	\$ (5,380,688)	\$ (54,777,074)	\$ (19,375,002)	\$ (23,006,398)	\$ (27,701,181)	\$ (6,324,077)	\$ (17,594,985)	\$ (4,865,627)	\$ (6,344,495)	\$ (13,591,809)	\$ (187,686,197)	
Total Commodity Sales	\$ (6,599,335)	\$ (13,183,391)	\$ (14,239,770)	\$ (66,258,828)	\$ (25,451,019)	\$ (27,220,414)	\$ (33,822,059)	\$ (16,037,574)	\$ (22,524,339)	\$ (9,267,187)	\$ (11,330,825)	\$ (17,375,865)	\$ (263,310,607)	
Secondary Market Service Revenue	\$ (2,401,935)	\$ (4,820,313)	\$ (1,881,883)	\$ (10,171,094)	\$ (7,691,557)	\$ (5,759,299)	\$ (5,014,116)	\$ (2,519,619)	\$ (1,633,288)	\$ (696,986)	\$ 885,905	\$ (1,085,755)	\$ (42,789,939)	
Financial (Gains)/Losses	\$ (54,913)	\$ 14,644	\$ 3,600	\$ 18,260	\$ (156,399)	\$ (296,078)	\$ 186,356	\$ (130,680)	\$ (1,501,463)	\$ (137,473)	\$ (12,013)	\$ 3,275	\$ (2,062,884)	
Other Costs	\$ 16,200	\$ 11,675	\$ 10,100	\$ -	\$ -	\$ 174,450	\$ 16,331	\$ 7,400	\$ 33,433	\$ 1,347	\$ 121,489	\$ 11,000	\$ 403,425	
Actual Commodity Purchase Cost	\$ 41,657,334	\$ 39,518,695	\$ 47,358,112	\$ 7,814,919	\$ 190,352,361	\$ 73,879,988	\$ 30,314,718	\$ 72,026,134	\$ 209,705,726	\$ 158,252,925	\$ 156,363,892	\$ 117,861,508	\$ 1,145,106,311	

2-3a
Southern California Gas Company
Mainline Purchase Summary
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso - Permian	\$ 6,217,530	\$ 6,527,741	\$ 10,806,625	\$ 10,949,071	\$ 10,471,593	\$ 7,170,072	\$ 6,114,622	\$ 10,461,077	\$ 10,254,051	\$ 15,407,170	\$ 11,302,213	\$ 8,992,453	\$ 114,674,217
El Paso - San Juan	\$ 13,509,025	\$ 15,629,372	\$ 13,413,953	\$ 15,162,845	\$ 16,907,417	\$ 15,773,474	\$ 14,355,517	\$ 13,136,322	\$ 21,599,849	\$ 29,588,911	\$ 24,267,403	\$ 19,773,145	\$ 213,117,232
Transwestern - Permian	\$ 519,896	\$ 605,697	\$ 1,101,250	\$ 744,956	\$ 775,965	\$ 570,500	\$ 475,400	\$ 649,468	\$ 259,701	\$ 846,121	\$ 699,922	\$ 490,080	\$ 7,738,955
Transwestern - San Juan	\$ 620,027	\$ 4,654,559	\$ 5,474,434	\$ 2,302,486	\$ 2,414,962	\$ 4,449,954	\$ 3,150,589	\$ 4,963,810	\$ 10,431,313	\$ 8,299,254	\$ 6,254,604	\$ 6,355,680	\$ 59,371,672
Kern River	\$ 11,415,924	\$ 11,906,627	\$ 10,933,938	\$ 12,468,182	\$ 13,422,744	\$ 12,414,673	\$ 12,306,945	\$ 15,246,035	\$ 47,887,504	\$ 38,587,547	\$ 27,973,442	\$ 21,665,813	\$ 236,229,373
Enterprise - Waha	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVA-AECO/NIT	\$ 1,984,323	\$ 1,834,596	\$ 1,256,823	\$ 1,997,912	\$ 1,823,335	\$ 1,379,430	\$ 1,963,468	\$ 2,356,838	\$ 2,877,550	\$ 2,261,016	\$ 2,324,336	\$ 2,897,633	\$ 24,957,260
GTN-Kingsgate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GTN-Stanfield	\$ -	\$ 16,903	\$ -	\$ -	\$ 65,471	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,374
GTN-Malin	\$ -	\$ -	\$ -	\$ 40,916	\$ 71,436	\$ -	\$ -	\$ 35,886	\$ 955,971	\$ 867,314	\$ -	\$ -	\$ 1,971,523
Total Mainline Purchases	\$ 34,266,725	\$ 41,175,495	\$ 42,987,023	\$ 43,666,367	\$ 45,952,923	\$ 41,758,102	\$ 38,366,541	\$ 46,849,436	\$ 94,265,938	\$ 95,857,334	\$ 72,821,919	\$ 60,174,804	\$ 658,142,607

2-3b
 Southern California Gas Company
 Border and Citygate Purchase Summary
 GCIM Year 25
 April 1, 2018 through March 31, 2019

Purchase	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Border Purchase	\$ 13,571,281	\$ 8,660,341	\$ 1,501,591	\$ 10,104,767	\$ 631,270	\$ 2,004,878	\$ 3,949,136	\$ 21,344,688	\$ 64,193,067	\$ 47,152,285	\$ 41,166,446	\$ 22,814,478	\$ 237,094,230
SoCal Citygate	\$ 2,859,311	\$ 7,660,243	\$ 18,977,452	\$ 30,455,447	\$ 177,067,143	\$ 63,218,349	\$ 26,632,529	\$ 22,512,484	\$ 76,872,378	\$ 25,343,605	\$ 52,710,970	\$ 53,319,570	\$ 557,629,481
Total Border and Citygate Purchases	\$ 16,430,592	\$ 16,320,585	\$ 20,479,043	\$ 40,560,214	\$ 177,698,413	\$ 65,223,227	\$ 30,581,665	\$ 43,857,172	\$ 141,065,445	\$ 72,495,890	\$ 93,877,417	\$ 76,134,048	\$ 794,723,710

2-3c
Southern California Gas Company
Mainline Sale Summary
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso - Permian	\$ (1,503,640)	\$ (4,394,689)	\$ (6,201,200)	\$ (8,524,923)	\$ (5,544,428)	\$ (2,789,694)	\$ (5,187,519)	\$ (6,018,664)	\$ (2,995,348)	\$ (3,707,943)	\$ (3,502,544)	\$ (2,687,074)	\$ (53,057,666)
El Paso - San Juan	\$ (411,317)	\$ (2,127,704)	\$ (1,437,559)	\$ (2,628,665)	\$ (288,933)	\$ (805,030)	\$ (207,373)	\$ (1,851,262)	\$ (1,789,179)	\$ (500,677)	\$ (311,844)	\$ -	\$ (12,359,543)
Transwestern - Permian	\$ (56,210)	\$ -	\$ (312,085)	\$ -	\$ -	\$ -	\$ -	\$ (266,587)	\$ -	\$ -	\$ -	\$ -	\$ (634,882)
Transwestern - San Juan	\$ (47,874)	\$ (56,979)	\$ (236,479)	\$ (132,199)	\$ (2,880)	\$ (273,514)	\$ (155,759)	\$ (1,156,465)	\$ (100,544)	\$ (7,654)	\$ -	\$ (57,439)	\$ (2,227,785)
Kern River	\$ -	\$ (1,418,179)	\$ (134,156)	\$ (80,195)	\$ (33,136)	\$ (80,783)	\$ (394,517)	\$ (139,603)	\$ (19,848)	\$ (62,680)	\$ (1,134,798)	\$ (984,588)	\$ (4,482,482)
Enterprise - Waha	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVA-AECO/NIT	\$ (85,350)	\$ (955,923)	\$ (534,006)	\$ (115,771)	\$ (107,123)	\$ (264,995)	\$ (107,140)	\$ (280,916)	\$ (24,436)	\$ (24,214)	\$ (37,144)	\$ (54,954)	\$ (2,591,974)
GTN-Kingsgate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GTN-Stanfield	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (34,078)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (34,078)
GTN-Malin	\$ -	\$ -	\$ (3,598)	\$ -	\$ (99,518)	\$ -	\$ (34,493)	\$ -	\$ -	\$ (98,393)	\$ -	\$ -	\$ (236,000)
Total Mainline Sales	\$ (2,104,391)	\$ (8,953,475)	\$ (8,859,082)	\$ (11,481,754)	\$ (6,076,017)	\$ (4,214,016)	\$ (6,120,878)	\$ (9,713,497)	\$ (4,929,355)	\$ (4,401,560)	\$ (4,986,330)	\$ (3,784,056)	\$ (75,624,410)

2-3d

Southern California Gas Company
Border and Citygate Sale Summary
GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Border Sales	\$ (1,563,938)	\$ (1,365,651)	\$ (3,193,115)	\$ (13,036,406)	\$ (2,959,290)	\$ (2,492,048)	\$ (7,842,312)	\$ (4,293,369)	\$ (179,995)	\$ (3,921,268)	\$ (251,983)	\$ (1,722,583)	\$ (42,821,955)
SoCal Citygate Sales	\$ (2,931,007)	\$ (2,864,265)	\$ (2,187,573)	\$ (41,740,668)	\$ (16,415,712)	\$ (20,514,351)	\$ (19,858,870)	\$ (2,030,708)	\$ (17,414,990)	\$ (944,359)	\$ (6,092,513)	\$ (11,869,226)	\$ (144,864,242)
PG&E- Topock Sales	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Border and Citygate Sales	\$ (4,494,944)	\$ (4,229,916)	\$ (5,380,688)	\$ (54,777,074)	\$ (19,375,002)	\$ (23,006,398)	\$ (27,701,181)	\$ (6,324,077)	\$ (17,594,985)	\$ (4,865,627)	\$ (6,344,495)	\$ (13,591,809)	\$ (187,686,197)

2-3e

Southern California Gas Company
 Secondary Market Service Revenue
 GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Secondary Market Service Revenue	\$ (2,776,812)	\$ (4,876,929)	\$ (1,951,824)	\$ (10,219,915)	\$ (7,764,611)	\$ (5,810,946)	\$ (5,086,056)	\$ (2,582,496)	\$ (1,716,670)	\$ (747,500)	\$ 817,008	\$ (1,159,729)	\$ (43,876,479)
Overhead Cost	\$ 374,877	\$ 56,616	\$ 69,940	\$ 48,821	\$ 73,053	\$ 51,647	\$ 71,940	\$ 62,877	\$ 83,382	\$ 50,514	\$ 68,897	\$ 73,974	\$ 1,086,539
Net Secondary Market Service Revenue	\$ (2,401,935)	\$ (4,820,313)	\$ (1,881,883)	\$ (10,171,094)	\$ (7,691,557)	\$ (5,759,299)	\$ (5,014,116)	\$ (2,519,619)	\$ (1,633,288)	\$ (696,986)	\$ 885,905	\$ (1,085,755)	\$ (42,789,939)

2-3f
 Southern California Gas Company
 Off-System Parking Fee
 GCIM Year 25
 April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Off System Parking Fee	\$ 16,200	\$ 11,675	\$ 10,100	\$ -	\$ -	\$ 174,450	\$ 16,331	\$ 7,400	\$ 33,433	\$ 1,347	\$ 121,489	\$ 11,000	\$ 403,425
Total	\$ 16,200	\$ 11,675	\$ 10,100	\$ -	\$ -	\$ 174,450	\$ 16,331	\$ 7,400	\$ 33,433	\$ 1,347	\$ 121,489	\$ 11,000	\$ 403,425

2-3g
Southern California Gas Company
Total Financial Derivatives Summary
GCIM Year 25

April 1, 2018 through March 31, 2019

	NYMEX & OTC Cleared Losses/(Gains)	NYMEX & OTC Clear Transaction Costs	OTC Swap Losses/(Gains)	OTC Swap Transaction Cost	Total Financial Cost/(Gain)
Apr-18	\$ -	\$ -	\$ (55,313)	\$ 399	\$ (54,913)
May-18	\$ -	\$ -	\$ 14,644	\$ -	\$ 14,644
Jun-18	\$ -	\$ -	\$ 2,813	\$ 787	\$ 3,600
Jul-18	\$ -	\$ -	\$ 17,825	\$ 435	\$ 18,260
Aug-18	\$ -	\$ -	\$ (158,100)	\$ 1,701	\$ (156,399)
Sep-18	\$ -	\$ -	\$ (296,375)	\$ 297	\$ (296,078)
Oct-18	\$ -	\$ 200	\$ 185,174	\$ 983	\$ 186,356
Nov-18	\$ -	\$ 1,875	\$ (135,013)	\$ 2,457	\$ (130,680)
Dec-18	\$ -	\$ 1,100	\$ (1,503,500)	\$ 937	\$ (1,501,463)
Jan-19	\$ -	\$ 450	\$ (138,400)	\$ 477	\$ (137,473)
Feb-19	\$ -	\$ -	\$ (12,250)	\$ 237	\$ (12,013)
Mar-19	\$ -	\$ -	\$ 3,075	\$ 200	\$ 3,275
Total	\$ -	\$ 3,625	\$ (2,075,420)	\$ 8,911	\$ (2,062,884)

Recorded: \$ (2,062,884)

2-3h
Southern California Gas Company
Hedge Detail
GCIM Year 25
April 1, 2018 through March 31, 2019

Non-Winter Hedge							25% Winter Hedge							
NYMEX Option	OTC Cleared Swaps		OTC Clear Option		Exchange Traded	Financial Swap Broker	NYMEX Option	OTC Cleared Swaps	OTC Clear Option	Future	Exchanged Traded	Financial Swap	Total	
Premiums	(Gain)/Loss	(Gain)/Loss	Premiums	(Gain)/Loss	Broker Fee	Fee	Premiums	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	Broker Fee	Broker Fee		
(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	Broker Fee	Fee	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss	Broker Fee	Broker Fee	Total	
Apr-18	\$	(55,313)			\$	399	\$	-	\$	-	\$	-	\$	(54,913)
May-18	\$	14,644					\$	-	\$	-	\$	-	\$	14,644
Jun-18	\$	2,813			\$	787	\$	-	\$	-	\$	-	\$	3,600
Jul-18	\$	17,825			\$	435	\$	-	\$	-	\$	-	\$	18,260
Aug-18	\$	(158,100)			\$	1,490	\$	-	\$	-	\$	212	\$	(156,399)
Sep-18	\$	(315,000)			\$	148	\$	-	\$	18,625	\$	149	\$	(296,078)
Oct-18	\$	61,419					\$	-	\$	123,755	\$	983	\$	186,356
Nov-18							\$	-	\$	(135,013)	\$	2,457	\$	(130,680)
Dec-18					\$	2	\$	-	\$	(1,503,500)	\$	935	\$	(1,501,463)
Jan-19					\$	58	\$	-	\$	(138,400)	\$	419	\$	(137,473)
Feb-19	\$	(9,800)			\$	182	\$	-	\$	(2,450)	\$	56	\$	(12,013)
Mar-19	\$	3,075			\$	200	\$	-	\$	-	\$	-	\$	3,275
Total	\$	-	\$	(438,437)	\$	-	\$	3,701	\$	-	\$	5,210	\$	(2,062,884)
	A	B	C	D	E	F	G	H	I	J	K	L		

Non-Winter Hedge:	A+B+C+D	\$	(438,437)
Non-Winter Transaction Cost:	E+F	\$	3,701
		\$	(434,736)
Winter Hedge:	G+H+I+J	\$	(1,636,983)
Winter Hedge Transaction Cost:	K+L	\$	8,835
		\$	(1,628,148)
Financial Cost Total Included in GCIM:		\$	(2,062,884)

2-3i
Southern California Gas Company
Winter Hedge Costs
GCIM Year 25
April 1, 2018 through March 31, 2019

	25% Winter						75% Winter					
	NYMEX Option Premiums (Gain)/Loss	OTC Cleared Swaps (Gain)/Loss	OTC Clear Option Premiums (Gain)/Loss	Future (Gain)/Loss	Exchanged Traded Broker Fee	Financial Swap Broker Fee	NYMEX Option Premiums (Gain)/Loss	OTC Cleared Swaps (Gain)/Loss	OTC Clear Option Premiums (Gain)/Loss	Future (Gain)/Loss	Exchanged Traded Broker Fee	Financial Swap Broker Fee
Apr-18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
May-18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jun-18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Jul-18	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Aug-18	\$ -	\$ -	\$ -	\$ -	\$ 212	\$ -	\$ -	\$ -	\$ -	\$ 635	\$ -	\$ -
Sep-18	\$ -	\$ 18,625	\$ -	\$ -	\$ 149	\$ -	\$ 55,875	\$ -	\$ -	\$ 447	\$ -	\$ -
Oct-18	\$ -	\$ 123,755	\$ -	\$ -	\$ 983	\$ 200	\$ 371,265	\$ -	\$ -	\$ 2,948	\$ 600	\$ -
Nov-18	\$ -	\$ (135,013)	\$ -	\$ -	\$ 2,457	\$ 1,875	\$ (405,038)	\$ -	\$ -	\$ 7,372	\$ 5,625	\$ -
Dec-18	\$ -	\$ (1,503,500)	\$ -	\$ -	\$ 935	\$ 1,100	\$ (4,510,500)	\$ -	\$ -	\$ 2,805	\$ 3,300	\$ -
Jan-19	\$ -	\$ (138,400)	\$ -	\$ -	\$ 419	\$ 450	\$ (415,200)	\$ -	\$ -	\$ 1,257	\$ 1,350	\$ -
Feb-19	\$ -	\$ (2,450)	\$ -	\$ -	\$ 56	\$ -	\$ (7,350)	\$ -	\$ -	\$ 167	\$ -	\$ -
Mar-19	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ (1,636,983)	\$ -	\$ -	\$ 5,210	\$ 3,625	\$ (4,910,948)	\$ -	\$ -	\$ 15,629	\$ 10,875	\$ -

25% Winter \$ (1,628,148)
75% Winter \$ (4,884,443)
100% Winter \$ (6,512,591)

2-4b
Southern California Gas Company
Benchmark Commodity Costs
GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Mainline Benchmark Commodity Cost	\$ 32,813,619	\$ 33,380,766	\$ 34,422,661	\$ 33,870,140	\$ 40,172,410	\$ 38,004,502	\$ 34,107,844	\$ 37,607,651	\$ 92,886,837	\$ 93,047,601	\$ 66,769,045	\$ 55,705,915	\$ 592,788,993
Border Commodity Cost	\$ 11,935,115	\$ 7,473,968	\$ (1,519,002)	\$ 968,500	\$ (1,788,199)	\$ (366,308)	\$ (2,545,483)	\$ 17,500,345	\$ 65,667,516	\$ 44,069,378	\$ 36,313,886	\$ 22,259,002	\$ 199,968,721
Citygate Commodity Cost	\$ 52,323	\$ 4,802,217	\$ 18,098,748	\$ 12,052,863	\$ 175,476,277	\$ 44,619,648	\$ 6,826,438	\$ 21,360,320	\$ 81,281,891	\$ 30,563,051	\$ 18,662,510	\$ 44,011,012	\$ 457,807,295
PG&E Topock Commodity Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Benchmark Commodity Costs	\$ 44,801,058	\$ 45,656,951	\$ 51,002,408	\$ 46,891,503	\$ 213,860,488	\$ 82,257,843	\$ 38,388,799	\$ 76,468,316	\$ 239,836,244	\$ 167,680,030	\$ 121,745,441	\$ 121,975,928	\$ 1,250,565,008

2-5
Southern California Gas Company
Reservation Charges
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso	\$ 6,165,417	\$ 6,164,641	\$ 5,957,809	\$ 5,967,296	\$ 6,054,515	\$ 5,957,809	\$ 5,957,809	\$ 6,282,078	\$ 6,691,175	\$ 6,535,491	\$ 6,483,985	\$ 6,280,746	\$ 74,498,771
Transwestern	\$ 567,227	\$ 772,134	\$ 747,227	\$ 772,134	\$ 772,134	\$ 747,226	\$ 772,134	\$ 1,474,727	\$ 1,523,884	\$ 1,523,884	\$ 1,376,411	\$ 1,523,884	\$ 12,573,006
Kern River	\$ 2,032,897	\$ 1,274,913	\$ 1,233,787	\$ 1,274,913	\$ 1,274,913	\$ 1,233,787	\$ 1,274,913	\$ 1,233,787	\$ 2,534,834	\$ 2,607,201	\$ 2,354,892	\$ 1,134,701	\$ 19,465,540
Nova (A)	\$ 207,111	\$ 212,089	\$ 208,029	\$ 207,943	\$ 209,325	\$ 209,479	\$ 209,964	\$ 206,787	\$ 203,238	\$ 231,569	\$ 233,198	\$ 230,340	\$ 2,569,075
Foothills (B)	\$ 101,662	\$ 102,141	\$ 100,186	\$ 100,144	\$ 100,810	\$ 100,884	\$ 101,118	\$ 99,587	\$ 97,878	\$ 124,274	\$ 125,148	\$ 123,614	\$ 1,277,448
GTN (C)	\$ 472,888	\$ 488,651	\$ 472,888	\$ 488,128	\$ 488,651	\$ 472,888	\$ 488,651	\$ 205,981	\$ 488,651	\$ 440,185	\$ 397,587	\$ 440,185	\$ 5,345,333
PG&E (D)	\$ 301,029	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 300,972	\$ 3,611,720
Canadian Path (A)+(B)+(C)+(D)	\$ 1,082,690	\$ 1,103,853	\$ 1,082,075	\$ 1,097,187	\$ 1,099,758	\$ 1,084,224	\$ 1,100,705	\$ 813,327	\$ 1,090,739	\$ 1,097,001	\$ 1,056,905	\$ 1,095,111	\$ 12,803,575
Northwest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325	\$ 990	\$ 15,500	\$ -	\$ -	\$ -	\$ 16,815
North Baja	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 198,221	\$ 198,221	\$ 176,813	\$ 176,813	\$ 176,813	\$ 176,813	\$ 1,103,692
Enterprise Texas	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Backbone Transportation Service Charges	\$ 7,888,505	\$ 7,948,499	\$ 6,596,049	\$ 6,704,786	\$ 6,861,222	\$ 6,631,250	\$ 7,504,835	\$ 8,324,478	\$ 11,140,961	\$ 10,957,823	\$ 9,549,569	\$ 9,423,396	\$ 99,531,374
Brokered Capacity Credits	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Backbone Transportation	\$ 7,888,505	\$ 7,948,499	\$ 6,596,049	\$ 6,704,786	\$ 6,861,222	\$ 6,631,250	\$ 7,504,835	\$ 8,324,478	\$ 11,140,961	\$ 10,957,823	\$ 9,549,569	\$ 9,423,396	\$ 99,531,374
Total Reservation Charges	\$ 17,736,736	\$ 17,264,041	\$ 15,616,946	\$ 15,816,316	\$ 16,062,543	\$ 15,654,295	\$ 16,808,942	\$ 18,327,608	\$ 23,173,906	\$ 22,898,212	\$ 20,998,574	\$ 19,634,652	\$ 219,992,773

2-6
Southern California Gas Company
Transportation Charges
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso	\$ 428,222	\$ 340,661	\$ 170,332	\$ (458,828)	\$ 197,926	\$ 188,799	\$ 207,575	\$ 157,896	\$ 226,623	\$ 279,253	\$ 246,699	\$ (44,521)	\$ 1,940,637
Transwestern	\$ 13,671	\$ 49,869	\$ 48,390	\$ 25,019	\$ 25,248	\$ 38,574	\$ 32,735	\$ 35,542	\$ 58,323	\$ 48,204	\$ 44,280	\$ 53,718	\$ 473,573
Kern River	\$ 31,727	\$ 27,810	\$ 26,276	\$ 27,865	\$ 28,491	\$ 26,891	\$ 26,083	\$ 23,532	\$ 46,336	\$ 158,128	\$ 42,395	\$ 103,339	\$ 568,873
Northwest	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 62	\$ 138	\$ 7,188	\$ 37	\$ -	\$ -	\$ 7,424
Canadian Path	\$ 17,330	\$ 16,892	\$ 15,321	\$ 17,175	\$ 17,407	\$ 15,675	\$ 17,463	\$ 15,127	\$ 28,090	\$ 80,567	\$ 16,321	\$ 18,121	\$ 275,489
ETP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Mexican Path	\$ 1,359	\$ 10,161	\$ -	\$ 12,551	\$ -	\$ -	\$ 100,029	\$ 10,708	\$ 61,913	\$ 142,355	\$ 134,564	\$ 134,536	\$ 608,174
Total	\$ 492,309	\$ 445,393	\$ 260,318	\$ (376,218)	\$ 269,072	\$ 269,939	\$ 383,946	\$ 242,944	\$ 428,472	\$ 708,544	\$ 484,258	\$ 265,193	\$ 3,874,170

2-7
Southern California Gas Company
Net Commodity Purchase Costs
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Mainline Purchases	\$ 34,266,725	\$ 41,175,495	\$ 42,987,023	\$ 43,666,367	\$ 45,952,923	\$ 41,758,102	\$ 38,366,541	\$ 46,849,436	\$ 94,265,938	\$ 95,857,334	\$ 72,821,919	\$ 60,174,804	\$ 658,142,607
Border Purchases	\$ 16,430,592	\$ 16,320,585	\$ 20,479,043	\$ 40,560,214	\$ 177,698,413	\$ 65,223,227	\$ 30,581,665	\$ 43,857,172	\$ 141,065,445	\$ 72,495,890	\$ 93,877,417	\$ 76,134,048	\$ 794,723,710
Total Commodity Purchases	\$ 50,697,317	\$ 57,496,079	\$ 63,466,066	\$ 84,226,581	\$ 223,651,336	\$ 106,981,329	\$ 68,948,206	\$ 90,706,607	\$ 235,331,384	\$ 168,353,224	\$ 166,699,336	\$ 136,308,853	\$ 1,452,866,317
Mainline Sales	\$ (2,104,391)	\$ (8,953,475)	\$ (8,859,082)	\$ (11,481,754)	\$ (6,076,017)	\$ (4,214,016)	\$ (6,120,878)	\$ (9,713,497)	\$ (4,929,355)	\$ (4,401,560)	\$ (4,986,330)	\$ (3,784,056)	\$ (75,624,410)
Border Sales	\$ (4,494,944)	\$ (4,229,916)	\$ (5,380,688)	\$ (54,777,074)	\$ (19,375,002)	\$ (23,006,398)	\$ (27,701,181)	\$ (6,324,077)	\$ (17,594,985)	\$ (4,865,627)	\$ (6,344,495)	\$ (13,591,809)	\$ (187,686,197)
Total Commodity Sales	\$ (6,599,335)	\$ (13,183,391)	\$ (14,239,770)	\$ (66,258,828)	\$ (25,451,019)	\$ (27,220,414)	\$ (33,822,059)	\$ (16,037,574)	\$ (22,524,339)	\$ (9,267,187)	\$ (11,330,825)	\$ (17,375,865)	\$ (263,310,607)
Net Commodity Purchases	\$ 44,097,981	\$ 44,312,688	\$ 49,226,295	\$ 17,967,753	\$ 198,200,317	\$ 79,760,915	\$ 35,126,147	\$ 74,669,033	\$ 212,807,044	\$ 159,086,037	\$ 155,368,511	\$ 118,932,988	\$ 1,189,555,710

2-8
Southern California Gas Company
Net Mainline Purchases by Pipelines
GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso - Permian	\$ 12,435,060	\$ 2,133,051	\$ 4,605,426	\$ 2,424,148	\$ 4,927,165	\$ 4,380,377	\$ 927,103	\$ 4,442,413	\$ 7,258,703	\$ 11,699,227	\$ 7,799,668	\$ 6,305,379	\$ 69,337,720
El Paso - San Juan	\$ 27,018,049	\$ 13,501,668	\$ 11,976,395	\$ 12,534,180	\$ 16,618,484	\$ 14,968,444	\$ 14,148,144	\$ 11,285,059	\$ 19,810,670	\$ 29,088,234	\$ 23,955,559	\$ 19,773,145	\$ 214,678,031
Transwestern - Permian	\$ 1,039,791	\$ 605,697	\$ 789,165	\$ 744,956	\$ 775,965	\$ 570,500	\$ 475,400	\$ 382,881	\$ 259,701	\$ 846,121	\$ 699,922	\$ 490,080	\$ 7,680,179
Transwestern - San Juan	\$ 1,240,055	\$ 4,597,580	\$ 5,237,955	\$ 2,170,287	\$ 2,412,082	\$ 4,176,439	\$ 2,994,830	\$ 3,807,345	\$ 10,330,769	\$ 8,291,600	\$ 6,254,604	\$ 6,298,241	\$ 57,811,788
Kern River	\$ 22,831,849	\$ 10,488,448	\$ 10,799,782	\$ 12,387,987	\$ 13,389,608	\$ 12,333,891	\$ 11,912,428	\$ 15,106,432	\$ 47,867,656	\$ 38,524,867	\$ 26,838,644	\$ 20,681,225	\$ 243,162,816
Enterprise - Waha	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ #VALUE!	\$ #VALUE!
NOVA-AECO/NIT	\$ 3,968,647	\$ 878,672	\$ 722,816	\$ 1,882,141	\$ 1,716,212	\$ 1,114,435	\$ 1,856,328	\$ 2,075,921	\$ 2,853,114	\$ 2,236,802	\$ 2,287,192	\$ 2,842,679	\$ 24,434,960
GTN-Kingsgate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GTN-Stanfield	\$ -	\$ 16,903	\$ -	\$ -	\$ 65,471	\$ -	\$ (34,078)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 48,296
GTN-Malin	\$ -	\$ -	\$ (3,598)	\$ 40,916	\$ (28,081)	\$ -	\$ (34,493)	\$ 35,886	\$ 955,971	\$ 768,921	\$ -	\$ -	\$ 1,735,523
Total Mainline Purchases	\$ 68,533,450	\$ 32,222,020	\$ 34,127,941	\$ 32,184,613	\$ 39,876,906	\$ 37,544,086	\$ 32,245,663	\$ 37,135,938	\$ 89,336,584	\$ 91,455,774	\$ 67,835,589	\$ #VALUE!	\$ #VALUE!

*Net = purchases + Sale

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 Southern California Gas Company
 Net Border and Citygate Purchase Summary
 GCIM Year 25

	April 1, 2018 through March 31, 2019												
	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Total Border and Citygate Purchases	\$ 16,430,592	\$ 16,320,585	\$ 20,479,043	\$ 40,560,214	\$ 177,698,413	\$ 65,223,227	\$ 30,581,665	\$ 43,857,172	\$ 141,065,445	\$ 72,495,890	\$ 93,877,417	\$ 76,134,048	\$ 794,723,710
Total Border Sales	\$ (4,494,944)	\$ (4,229,916)	\$ (5,380,688)	\$ (54,777,074)	\$ (19,375,002)	\$ (23,006,398)	\$ (27,701,181)	\$ (6,324,077)	\$ (17,594,985)	\$ (4,865,627)	\$ (6,344,495)	\$ (13,591,809)	\$ (187,686,197)
Net Border and Citygate Purchases	\$ 11,935,647	\$ 12,090,668	\$ 15,098,355	\$ (14,216,860)	\$ 158,323,411	\$ 42,216,828	\$ 2,880,484	\$ 37,533,094	\$ 123,470,460	\$ 67,630,263	\$ 87,532,922	\$ 62,542,239	\$ 607,037,513

*Net = purchases + sale

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Southern California Gas Company
Actual Net Purchase Volume
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Mainline Purchases	22,453,328	26,423,418	22,895,676	22,191,509	21,699,696	21,751,958	21,693,391	21,254,785	27,640,145	29,828,092	27,639,576	27,477,691	292,949,265
Mainline Sales	(1,262,744)	(5,887,727)	(4,870,509)	(5,401,671)	(3,164,857)	(2,410,260)	(3,346,963)	(5,170,079)	(2,379,250)	(2,074,229)	(3,034,238)	(4,327,662)	(43,330,189)
Net Mainline Purchase Volume	21,190,584	20,535,691	18,025,167	16,789,838	18,534,839	19,341,698	18,346,428	16,084,706	25,260,895	27,753,863	24,605,338	23,150,029	249,619,076
Border and Citygate Purchases	7,739,093	6,977,198	6,419,343	10,028,634	19,768,151	14,079,313	8,534,272	11,199,274	18,580,595	16,101,327	15,932,373	18,136,607	153,496,180
Border and Citygate Sales	(1,737,200)	(1,626,014)	(1,944,151)	(6,601,119)	(1,735,248)	(5,154,158)	(7,784,679)	(1,306,771)	(1,343,699)	(1,076,000)	(1,198,200)	(2,285,342)	(33,792,581)
Net Border and Citygate Purchase Volume	6,001,893	5,351,184	4,475,192	3,427,515	18,032,903	8,925,155	749,593	9,892,503	17,236,896	15,025,327	14,734,173	15,851,265	119,703,599
Net Commodity Purchase Volume	27,192,477	25,886,875	22,500,359	20,217,353	36,567,742	28,266,853	19,096,021	25,977,209	42,497,791	42,779,190	39,339,511	39,001,294	369,322,675
Actual Transported Volume	27,128,965	25,380,851	22,054,604	19,902,867	36,064,663	26,951,873	19,347,325	25,629,163	41,947,535	42,115,790	38,520,029	38,468,833	363,512,498

Southern California Gas Company
 Net Mainline Purchase Volume
 GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Mainline Purchase Total	22,453,328	26,423,418	22,895,676	22,191,509	21,699,696	21,751,958	21,693,391	21,254,785	27,640,145	29,828,092	27,639,576	27,477,691	292,949,265
Mainline Sale Total	(1,262,744)	(5,887,727)	(4,870,509)	(5,401,671)	(3,164,857)	(2,410,260)	(3,346,963)	(5,170,079)	(2,379,250)	(2,074,229)	(3,034,238)	(4,327,662)	(43,330,189)
Net Mainline Purchase Volume	21,190,584	20,535,691	18,025,167	16,789,838	18,534,839	19,341,698	18,346,428	16,084,706	25,260,895	27,753,863	24,605,338	23,150,029	249,619,076

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Southern California Gas Company
Total Mainline Purchase Volume
GCIM Year 25
April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso - Permian	5,002,219	5,164,861	5,717,889	6,331,815	5,702,124	4,998,323	5,123,909	6,261,599	7,115,472	6,891,543	6,521,606	7,715,260	72,546,620
El Paso - San Juan	8,907,865	9,140,063	6,826,515	7,132,252	7,270,905	7,357,644	7,602,810	6,006,379	6,528,461	9,129,954	8,878,474	9,067,099	93,848,421
Transwestern - Permian	404,588	407,877	548,882	415,017	418,310	403,180	394,523	393,617	418,872	418,872	378,336	418,872	5,020,946
Transwestern - San Juan	410,735	2,627,823	2,656,471	1,084,899	1,039,986	2,052,649	1,639,206	2,260,999	3,136,468	2,479,247	2,283,789	2,846,764	24,519,036
 Kern River	6,090,093	6,205,552	5,199,298	5,531,598	5,529,120	5,313,706	5,252,273	4,693,573	8,560,264	8,978,458	8,062,002	5,734,335	75,150,272
Enterprise - Waha	-	-	-	-	-	-	-	-	-	-	-	-	-
NOVA-AECO/NIT	1,637,828	2,867,242	1,946,621	1,680,669	1,690,149	1,626,456	1,680,670	1,626,457	1,680,671	1,680,671	1,515,369	1,695,361	21,328,164
GTN-Kingsgate	-	-	-	-	-	-	-	-	-	-	-	-	-
GTN-Stanfield	-	10,000	-	-	23,895	-	-	-	-	-	-	-	33,895
GTN-Malin	-	-	-	15,259	25,207	-	-	12,161	199,937	249,347	-	-	501,911
Total Mainline Purchase Volume	22,453,328	26,423,418	22,895,676	22,191,509	21,699,696	21,751,958	21,693,391	21,254,785	27,640,145	29,828,092	27,639,576	27,477,691	292,949,265

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Southern California Gas Company
Total Mainline Sale Volume
GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
El Paso - Permian	(936,219)	(2,538,484)	(3,294,805)	(4,112,904)	(2,895,122)	(1,640,641)	(2,974,365)	(3,721,125)	(1,782,509)	(1,851,777)	(2,693,881)	(4,127,771)	(32,569,603)
El Paso - San Juan	(220,800)	(1,220,975)	(693,822)	(1,102,337)	(136,060)	(416,934)	(77,747)	(692,051)	(563,234)	(173,500)	(132,869)	-	(5,430,329)
Transwestern - Permian	(40,536)	-	(154,672)	-	-	-	-	(108,096)	-	-	-	-	(303,304)
Transwestern - San Juan	(27,466)	(32,060)	(135,697)	(56,467)	(1,500)	(157,971)	(93,199)	(404,224)	(25,000)	(2,200)	-	(24,000)	(959,784)
Kern River	-	(783,484)	(60,000)	(42,000)	(12,900)	(35,000)	(131,986)	(33,500)	(5,000)	(16,752)	(201,327)	(158,451)	(1,480,400)
Enterprise - Waha	-	-	-	-	-	-	-	-	-	-	-	-	-
NOVA-AECO/NIT	(37,723)	(1,312,724)	(530,013)	(87,963)	(82,275)	(159,714)	(49,666)	(211,083)	(3,507)	-	(6,161)	(17,440)	(2,498,269)
GTN-Kingsgate	-	-	-	-	-	-	-	-	-	-	-	-	-
GTN-Stanfield	-	-	-	-	-	-	(10,000)	-	-	-	-	-	(10,000)
GTN-Malin	-	-	(1,500)	-	(37,000)	-	(10,000)	-	-	(30,000)	-	-	(78,500)
Total Mainline Sale Volume	(1,262,744)	(5,887,727)	(4,870,509)	(5,401,671)	(3,164,857)	(2,410,260)	(3,346,963)	(5,170,079)	(2,379,250)	(2,074,229)	(3,034,238)	(4,327,662)	(43,330,189)

Southern California Gas Company
 Total Border and Citygate Purchase Volume
 GCIM Year 25

April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Border Purchases	6,762,514	4,432,763	677,647	3,533,841	211,716	805,319	1,653,448	7,381,016	11,400,852	12,065,661	10,802,646	8,209,195	67,936,618
SoCal Citygate Purchases	976,579	2,544,435	5,741,696	6,494,793	19,556,435	13,273,994	6,880,824	3,818,258	7,179,743	4,035,666	5,129,727	9,927,412	85,559,562
PG&E Topock													-
Total Border and Citygate Purchases	7,739,093	6,977,198	6,419,343	10,028,634	19,768,151	14,079,313	8,534,272	11,199,274	18,580,595	16,101,327	15,932,373	18,136,607	153,496,180

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 Southern California Gas Company
 Actual Total Border and Citygate Sale Volume
 GCIM Year 25
 April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Border Sales	(780,000)	(677,000)	(1,329,579)	(3,177,119)	(650,000)	(939,991)	(2,685,052)	(1,158,671)	(20,000)	(930,000)	(35,000)	(287,842)	(12,670,254)
Socal Citygate Sales	(957,200)	(949,014)	(614,572)	(3,424,000)	(1,085,248)	(4,214,167)	(5,099,627)	(148,100)	(1,323,699)	(146,000)	(1,163,200)	(1,997,500)	(21,122,327)
PG&E Topock Sales													-
Total Border and Citygate Sales	(1,737,200)	(1,626,014)	(1,944,151)	(6,601,119)	(1,735,248)	(5,154,158)	(7,784,679)	(1,306,771)	(1,343,699)	(1,076,000)	(1,198,200)	(2,285,342)	(33,792,581)

2-16
 Southern California Gas Company
 Net Border and Citygate Purchase Volume
 GCIM Year 25
 April 1, 2018 through March 31, 2019

	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
Border Purchases	6,762,514	4,432,763	677,647	3,533,841	211,716	805,319	1,653,448	7,381,016	11,400,852	12,065,661	10,802,646	8,209,195	67,936,618
Border Sale	(780,000)	(677,000)	(1,329,579)	(3,177,119)	(650,000)	(939,991)	(2,685,052)	(1,158,671)	(20,000)	(930,000)	(35,000)	(287,842)	(12,670,254)
Net Border Purchases	5,982,514	3,755,763	(651,932)	356,722	(438,284)	(134,672)	(1,031,604)	6,222,345	11,380,852	11,135,661	10,767,646	7,921,353	55,266,364
SoCal Citygate Purchases	976,579	2,544,435	5,741,696	6,494,793	19,556,435	13,273,994	6,880,824	3,818,258	7,179,743	4,035,666	5,129,727	9,927,412	85,559,562
SoCal Citygate Sales	(957,200)	(949,014)	(614,572)	(3,424,000)	(1,085,248)	(4,214,167)	(5,099,627)	(148,100)	(1,323,699)	(146,000)	(1,163,200)	(1,997,500)	(21,122,327)
Net SoCal Citygate Purchases	19,379	1,595,421	5,127,124	3,070,793	18,471,187	9,059,827	1,781,197	3,670,158	5,856,044	3,889,666	3,966,527	7,929,912	64,437,235
PG&E Topock Purchases	-	-	-	-	-	-	-	-	-	-	-	-	-
PG&E Topock Sales	-	-	-	-	-	-	-	-	-	-	-	-	-
PG&E Topock Purchases	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Border and Citygate Purchases	6,001,893	5,351,184	4,475,192	3,427,515	18,032,903	8,925,155	749,593	9,892,503	17,236,896	15,025,327	14,734,173	15,851,265	119,703,599

2-17
Southern California Gas Company
Benchmark Spot Prices
GCIM Year 25
April 1, 2018 through March 31, 2019

* Publications for each spot prices are reviewed.

**Southern California Gas Company
Core Capacity Utilization
GCIM Year 25**

April 1, 2018 through March 31, 2019

	Core Capacity	Nominated Capacity	Unutilized Capacity	Capacity Utilization Percentage	Nominated Capacity	Actual Volume Delivered	Capacity Cut
El Paso Natural Gas Company	234,110,372	127,539,535	106,570,837	54%	127,539,535	126,033,552	1,505,983
Foothills Pipelines Ltd	19,544,264	19,098,077	446,187	98%	19,098,077	18,544,063	554,014
Gas Trans Northwest Corp	19,165,420	18,632,084	533,336	97%	18,632,084	18,138,668	493,416
Kern River Gas Transmission Company	73,416,950	72,166,792	1,250,158	98%	72,166,792	71,633,961	532,831
Nova Gas Trans Ltd	19,804,091	18,930,071	874,020	96%	18,930,071	18,929,669	402
Pacific Gas & Electric	19,213,100	18,693,789	519,311	97%	18,693,789	18,234,118	459,671
Transwestern Pipeline Company	51,339,100	28,007,835	23,331,265	55%	28,007,835	27,643,058	364,777
North Baja Pipeline Company	9,022,650	6,324,388	2,698,262	70%	6,324,388	6,300,469	23,919
Northwest Pipeline LLC	336,300	311,557	24,743	93%	311,557	273,607	37,950
Total	445,952,247	309,704,128	136,248,119	69%	309,704,128	305,731,165	3,972,963

2-19
Southern California Gas Company
Tolerance Band Review GCIM Year 25
April 1, 2018 through March 31, 2019

	Benchmark	Actual	(Over)/Under	Benchmark	Actual	Reservation		Upper Tolerance 2%	Lower Tolerance 1%	Lower Tolerance
	Commodity Costs	Commodity Costs	Benchmark	Dollars	Dollars	Costs	Transportation Costs			5%
Apr-18	\$ 44,801,058	\$ 41,657,334	\$ 3,143,724	\$ 63,030,103	\$ 59,886,380	\$ 17,736,736	\$ 492,309	\$ 45,697,079	\$ 44,353,047	\$ 42,561,005
May-18	\$ 45,656,951	\$ 39,518,695	\$ 6,138,257	\$ 63,366,385	\$ 57,228,128	\$ 17,264,041	\$ 445,393	\$ 46,570,090	\$ 45,200,382	\$ 43,374,104
Jun-18	\$ 51,002,408	\$ 47,358,112	\$ 3,644,296	\$ 66,879,672	\$ 63,235,376	\$ 15,616,946	\$ 260,318	\$ 52,022,456	\$ 50,492,384	\$ 48,452,287
Jul-18	\$ 46,891,503	\$ 7,814,919	\$ 39,076,584	\$ 62,331,601	\$ 23,255,017	\$ 15,816,316	\$ (376,218)	\$ 47,829,333	\$ 46,422,588	\$ 44,546,928
Aug-18	\$ 213,860,488	\$ 190,352,361	\$ 23,508,127	\$ 230,192,103	\$ 206,683,977	\$ 16,062,543	\$ 269,072	\$ 218,137,698	\$ 211,721,883	\$ 203,167,463
Sep-18	\$ 82,257,843	\$ 73,879,988	\$ 8,377,855	\$ 98,182,076	\$ 89,804,221	\$ 15,654,295	\$ 269,939	\$ 83,902,999	\$ 81,435,264	\$ 78,144,950
Oct-18	\$ 38,388,799	\$ 30,314,718	\$ 8,074,081	\$ 55,581,687	\$ 47,507,606	\$ 16,808,942	\$ 383,946	\$ 39,156,575	\$ 38,004,911	\$ 36,469,359
Nov-18	\$ 76,468,316	\$ 72,026,134	\$ 4,442,182	\$ 95,038,868	\$ 90,596,686	\$ 18,327,608	\$ 242,944	\$ 77,997,682	\$ 75,703,633	\$ 72,644,900
Dec-18	\$ 239,836,244	\$ 209,705,726	\$ 30,130,517	\$ 263,438,622	\$ 233,308,105	\$ 23,173,906	\$ 428,472	\$ 244,632,969	\$ 237,437,881	\$ 227,844,432
Jan-19	\$ 167,680,030	\$ 158,252,925	\$ 9,427,106	\$ 191,286,786	\$ 181,859,681	\$ 22,898,212	\$ 708,544	\$ 171,033,631	\$ 166,003,230	\$ 159,296,029
Feb-19	\$ 121,745,441	\$ 156,363,892	\$ (34,618,451)	\$ 143,228,274	\$ 177,846,725	\$ 20,998,574	\$ 484,258	\$ 124,180,350	\$ 120,527,986	\$ 115,658,169
Mar-19	\$ 121,975,928	\$ 117,861,508	\$ 4,114,421	\$ 141,875,773	\$ 137,761,353	\$ 19,634,652	\$ 265,193	\$ 124,415,447	\$ 120,756,169	\$ 115,877,132
Total	\$1,250,565,008	\$1,145,106,311	\$ 105,458,697	\$ 1,474,431,951	\$1,368,973,254	\$219,992,773	\$3,874,170	\$1,275,576,308	\$1,238,059,358	\$1,188,036,758