In the Matter of the Application of San Diego Gas & Electric Company (U 902 E) for Approval of its Proposals for Dynamic Pricing and Recovery of Incremental Expenditures Required for Implementation.	Application 10-07-009 (Filed July 6, 2010)
Application of San Diego Gas & Electric Company (U 902 E) for Authority to Update Marginal Costs, Cost Allocation, and Electric Rate Design	Application 19-03-002 (Filed March 4, 2019)

Application: 10-07-009/A.19-03-002
Exhibit No.: ________

CHAPTER 6

SECOND REVISED PREPARED DIRECT TESTIMONY OF

BENJAMIN A. MONTOYA

ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

JANUARY 15, 2020

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SECOND REVISED PREPARED DIRECT TESTIMONY OF
BENJAMIN A. MONTOYA
(CHAPTER 6)

I. PURPOSE AND OVERVIEW

The purpose of this testimony is to provide the marginal cost basis for the development of commodity rates as well as the cost basis for the allocation of commodity costs and ongoing Competition Transition Charge ("CTC") costs to San Diego Gas & Electric Company's ("SDG&E") customer classes. Marginal commodity costs are the incremental electric commodity costs incurred on behalf of utility customers and are composed of marginal energy costs ("MEC") and marginal generation capacity costs ("MGCC"). Marginal energy costs are the added energy costs incurred to meet electricity consumption. Marginal generation capacity costs relate to the added costs incurred to meet electric demand. SDG&E is proposing in this General Rate Case ("GRC") Phase 2 Application to allocate costs to reflect the marginal commodity costs developed herein.

The purpose of this testimony also includes support of SDG&E's current Time of Use ("TOU") periods. Current TOU periods were approved in SDG&E's 2016 GRC Phase 2 proceeding. This testimony will provide the results of the Loss of Load Expectation ("LOLE") analysis supporting the current TOU periods. SDG&E is also required to provide a deadband tolerance range analysis to determine if a change to base TOU rates is warranted.[1]

My testimony is organized as follows:

Section II – Calculation of Marginal Energy Costs: MEC are the projected energy costs incurred to meet electricity consumption. Since SDG&E transacts in the California

[1] D.17-01-006 at Ordering Paragraph ("OP") 4.

Independent System Operator ("CAISO") markets, the MEC are based on monthly electric forward market prices specific to South of Path 15 ("SP-15") and an annual hourly profile of electricity prices representative of the San Diego area. A Renewable Portfolio Standard ("RPS") adder is also included since added load requires added renewable energy under the RPS.

Section III – Calculation of Marginal Generation Capacity Costs: MGCC relate to the added costs incurred to meet electric demand. MGCC are calculated based on long-term considerations and are based on the net cost of new entry of a combustion turbine ("CT"), the long-term cost of adding new capacity. This amount is equal to the fixed costs of a CT less expected revenues from energy and ancillary service markets.

Section IV – Commodity Revenue Allocation: Presents the proposal to use marginal costs coupled with the Equal Percent of Marginal Costs ("EPMC") methodology to allocate the authorized commodity revenue requirement to each customer class based on the calculated MEC and MGCC in Sections II and III.

Section V – CTC Revenue Allocation: Presents an updated allocation for CTC revenues.

Section VI – Support of TOU periods: Presents the LOLE analysis supporting SDG&E's current TOU periods. Also presents the results of the Deadband Tolerance Methodology to show that a proposal to change TOU periods is not warranted at this time.

Section VII – Summary and Conclusion: Provides a summary of recommendations.

Section VIII –Witness Qualifications: Presents my qualifications.

My testimony also contains the following attachments:

- **Attachment A – Commodity Marginal Costs**
- **Attachment B – Commodity Revenue Allocations**

- **Attachment C – CTC Revenue Allocations**
- **Attachment D – Grandfathered Marginal Energy Costs**

II. CALCULATION OF MARGINAL ENERGY COSTS

MEC reflect expected future energy market conditions and are developed by assessing hourly electricity prices. Since the goal is to forecast future hourly prices, SDG&E used a forecasted hourly profile for 2020 based upon net demand in the SP-15 market and projected monthly CAISO on-peak and off-peak 2020 SP-15 electric market prices. The result is a profile of hourly electric prices for calendar year 2020. The prices in SP-15 are used since SDG&E's service territory load is in the SP-15 market area and forward prices are available for SP-15.

The SDG&E forecasted 2020 hourly price shape, based on SP-15, is illustrated in Chart BAM-1 and Chart BAM-2 for the average summer and winter non-holiday weekdays, compared to the actual SDG&E Default Load Aggregation Point ("DLAP") prices observed in 2017 and 2018.[2]

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[2] California ISO OASIS, *Locational Marginal Prices* ("LMP"), *available at* http://oasis.caiso.com/mrioasis/logon.do. *See* Locational Marginal Prices, From 01/01/2017 To 12/31/2018, Market: DAM, Node: DLAP_SDGE-APND. Note that these prices are not weather adjusted.

Chart BAM-1: Summer Weekday Average Hourly Shape

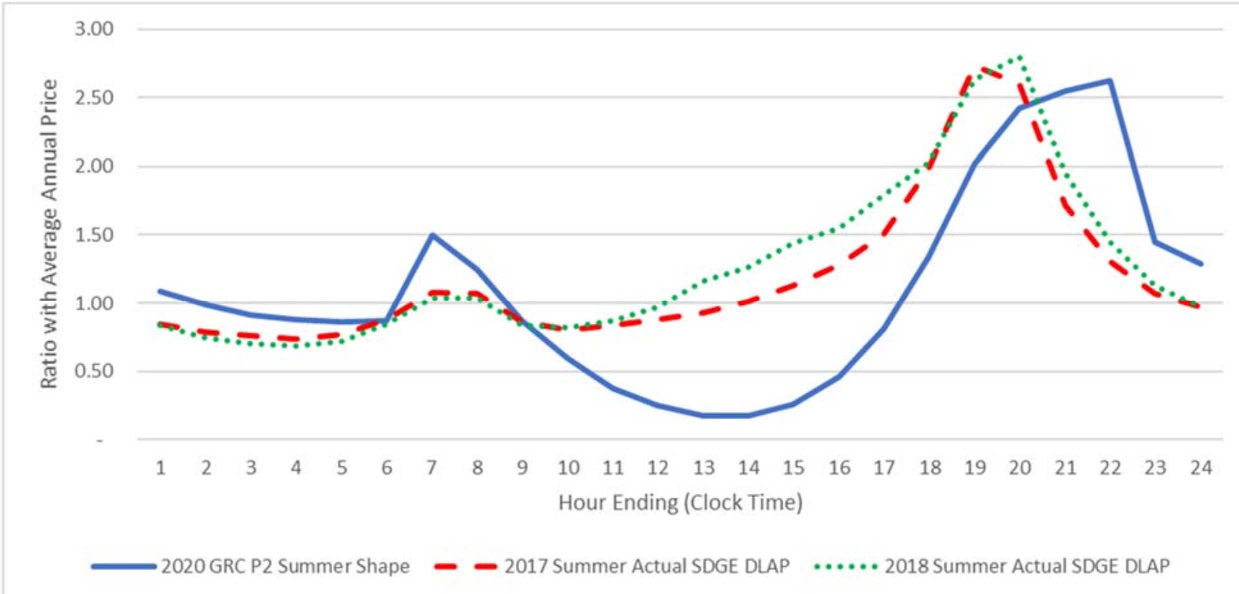
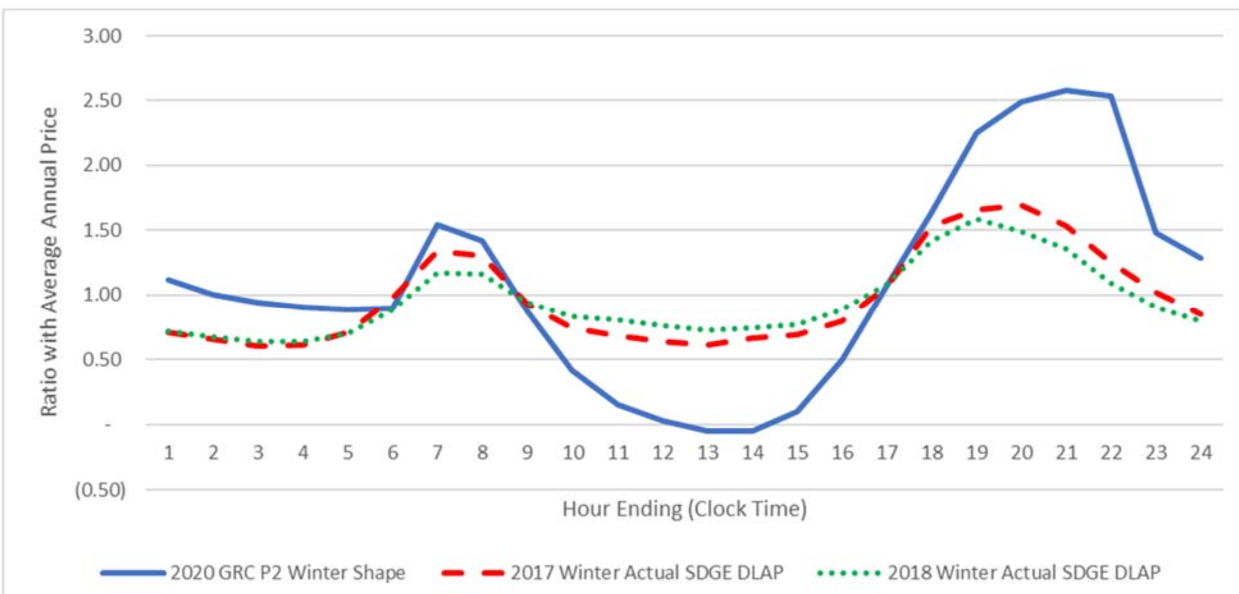


Chart BAM-2: Winter Weekday Average Hourly Shape



For the development of the average hourly prices, the monthly CAISO on-peak and off-peak forward prices are multiplied by the monthly CAISO on-peak and off-peak hourly demand profiles to arrive at hourly prices. The hourly prices are then aggregated by the appropriate

SDG&E TOU periods to develop the SDG&E TOU marginal energy prices. The resulting MEC ratios with the annual average price by current standard SDG&E TOU period are shown in Table BAM-1. The average annual price is calculated to be $32.98 per MWh, or 3.298 cents per kWh. The same calculation is done using grandfathered SDG&E TOU periods to develop SDG&E grandfathered TOU marginal energy prices. The resulting MEC ratios with the annual average price by grandfathered SDG&E TOU period are shown in Attachment D, attached herein.

Table BAM-1: MEC Factors and Prices by SDG&E Standard TOU Period

SDG&E Standard TOU Periods*					
	MEC Factors			MEC Cents per kWh	
	Summer	Winter	x Average Annual Price (3.298 ¢/kWh)	Summer	Winter
On-Peak	1.631	1.857		5.378	6.126
Off-Peak	0.869	0.926		2.866	3.054
Super Off-Peak	0.749	0.657		2.471	2.167
* Adopted in D.17-08-030					

The SP-15 forward prices represent the wholesale cost of energy in 2020. However, incremental energy will not be entirely purchased from the wholesale market because of California's 33 percent RPS mandate: thirty-three percent of incremental energy in 2020 is required to be provided by renewable generation pursuant to legislation.[3] In order to capture the full marginal cost of energy, an RPS premium is added to the wholesale energy prices after they are grouped by SDG&E Standard TOU period. The RPS premium is defined as the "Green Value," calculated by the California Public Utilities Commission's ("CPUC") Energy Division, minus the average annual SP-15 energy price, then multiplied by the RPS Target for 2020 of

[3] Established in 2002 under Senate Bill ("SB") 1078, accelerated in 2006 under SB 107 and expanded in 2011 under SB 2 1X. *See* SB 1078, Stats. 2001-2002, Ch. 516 (Cal. 2002); SB 107, Stats. 2005-2006, Ch. 464 (Cal. 2006); SB 2 1X.

33% ($0.05993/kWh – $0.03298/kWh) x 33% = $0.00889/kWh). The RPS adder is a single value for all hours of the year, as the RPS requirement is an annual target (*i.e.* it is a % of annual energy sales). The resulting total marginal energy prices by SDG&E Standard TOU period are shown in Table BAM-2 below. The same calculation is done for grandfathered SDG&E TOU periods and the resulting total marginal energy prices by grandfathered SDG&E TOU period are shown in Attachment D, attached herein.

Table BAM-2: Total Marginal Energy Prices[4]

SDG&E Standard TOU Periods*	**A** **Wholesale (¢/kWh)**	**B** **RPS Adder (¢/kWh)**	**A + B** **Total (¢/kWh)**
Summer (June 1 - October 31)			
On-peak : 4pm - 9pm daily	5.378	0.889	6.268
Off-peak: All other hours	2.866	0.889	3.755
Super off-peak: 12am - 6am non-holiday weekdays and 12am - 2pm weekends/holidays	2.471	0.889	3.360
Winter (November 1 - May 31)			
On-peak: 4pm - 9pm daily	6.126	0.889	7.015
Off-peak : All other hours	3.054	0.889	3.943
Super off-peak: 12am - 6am non-holiday weekdays and 12am - 2pm weekends/holidays 10am - 2pm (March & April)	2.167	0.889	3.057
	RPS Premium	2.695	
*** Adopted in D.17-08-030**	RPS %	33%	

[4] Shortly before submitting this testimony, SDG&E determined that the RPS Adder in Table BAM-2 is incorrect. Table BAM-2 now includes these corrections and all attachments to this testimony have been corrected.

The total marginal energy prices shown in Table BAM-2 above are input values for the commodity cost allocation to customer classes presented in Section IV.

III. CALCULATION OF MARGINAL GENERATION CAPACITY COSTS

The methodology employed by SDG&E in calculating MGCC can be viewed as a net cost of new entry approach. MGCC answers the question: What price would be required to incent a new generator to enter the market and sell firm capacity? The answer is calculated based on the cost of building the facility less anticipated revenues from California's energy markets. SDG&E computes MGCC by calculating the cost of building a new CT, including all permitting, financing, and development costs, and deducting expected earnings in California energy and ancillary service markets. SDG&E uses publicly available information to provide a transparent calculation.

To estimate a CT's fixed cost, SDG&E uses the installed cost for an advanced CT addition, $1,085/kW, and fixed and variable Operations & Maintenance ("O&M") from the California Energy Commission's ("CEC") Estimated Cost of New Renewable and Fossil Generation in California Report, CEC-200-2014-003-SF.[5] The installed cost is converted to a short-term annual cost using a real economic carrying charge ("RECC") approach, then adding fixed O&M and various loaders.[6] Finally, the cost is escalated to 2020 dollars using escalators developed in SDG&E's 2019 GRC Phase 1.[7]

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[5] California Energy Commission, *Estimated Cost of New Renewable and Fossil Generation in California* (March 2015) at 139-141, Tables 59 and 60.

[6] SDG&E RECC factors include property tax.

[7] Application ("A.") 17-10-007, SDG&E Direct Testimony of Scott R. Wilder (Cost Escalation) (October 6, 2017), Ex. SDG&E-39/Wilder at SRW-5, Table SRW-2: Summary of Cost Escalation Indexes.

To calculate the net cost of capacity, projected market earnings from California's energy markets are deducted from the annualized cost of a CT. SDG&E uses an average of three scenarios of SP-15 net revenues (energy revenues minus operating costs) from the CAISO Department of Market Monitoring Annual Report on Market Issues & Performance.[8] The resulting MGCC calculation is shown in Table BAM-3 below.

Table BAM-3: MGCC

Marginal Generation Capacity Cost	
	2020 $/kW-Yr
Short-term Marginal Cost of a Combustion Turbine	$156.69
Less Energy Market Earnings	$16.26
Marginal Generation Capacity Costs	$140.43

The MGCC is an input for the commodity cost allocation to customer classes presented in Section IV.

SDG&E used LOLE results presented in Section VI for generation capacity cost allocation. The top 100 hours of forecasted need resulting from the LOLE analysis is used to determine the percentage allocation of MGCC to each SDG&E Standard TOU period and grandfathered SDG&E TOU period. This LOLE approach is an accepted methodology to allocate generation capacity needs to months, days, and hours and is consistent with SDG&E's previous approach in the GRC Phase 2.[9] SDG&E proposes to continue basing commodity

[8] California ISO, *2016 Annual Report on Market Issues & Performance* (May 2017) at 57, Table 1.8 Financial analysis of new combustion turbine (2016).

[9] A.15-04-012, Prepared Direct Testimony of Jeffrey J. Shaughnessy (Chapter 7) (February 9, 2016), Ex. SDG&E-07/Shaughnessy.

capacity allocation on the top 100 hours of forecasted need. SDG&E allocated capacity to seasons, days (weekdays/weekends), hours and TOU periods as shown in Table BAM-4 below.

Table BAM-4: Top 100 Hour Loss of Load Expectation

LOLE % by TOU Period

SDG&E Standard TOU Periods	**Summer**	**Winter**
On-peak : 4pm - 9pm daily	66.7%	0.0%
Off-peak: All other hours	33.3%	0.0%
Super off-peak: 12am - 6am non-holiday weekdays and 12am - 2pm weekends/holidays	0.0%	0.0%
Total	100.0%	0.0%

IV. COMMODITY REVENUE ALLOCATION

SDG&E proposes no change to the current methodology to use the EPMC revenue allocation methodology to allocate the authorized commodity revenue requirement to customer classes.

Under SDG&E's commodity revenue allocation proposal, the authorized commodity revenue requirement is allocated among customer classes based on the proposed marginal generation capacity and energy revenue cost responsibilities by customer class. The unit marginal generation capacity and energy costs, presented in Sections II and III above, are multiplied by the appropriate cost drivers to develop the marginal commodity revenue allocations by customer class.

Marginal energy cost revenues by customer class are developed by multiplying the applicable marginal energy prices ($/kWh) by the 2020 forecasted TOU energy usage in each SDG&E Standard TOU period for each customer class. The same is done for grandfathered SDG&E TOU periods for each customer class.

Marginal capacity cost revenues by customer class are developed by multiplying the unit MGCC ($/kW-year) by each class' estimated contribution to total bundled load based on the top 100 hours with the highest expected need for new resources, described in Section III above.

The sum of the marginal generation capacity and energy revenues is the marginal commodity cost revenues. This is used to determine the commodity EPMC allocation factor, defined as the commodity revenue requirement divided by the marginal commodity cost revenues. The EPMC allocation factor is then used to scale the marginal commodity cost revenues to ensure that the sum equals the authorized commodity revenue requirement. The EPMC rates and resulting commodity class allocations are shown in Attachment A and Attachment B, respectively.

V. CTC REVENUE ALLOCATION

CTC revenues are also allocated based on the "Top 100 hours" allocation methodology, as adopted by the Commission in Decision 00-06-034. In this proceeding, SDG&E does not propose to change the allocation methodology. Instead, SDG&E merely proposes to update the top 100-hour data consistent with the method used in the previous GRC. Based on the original filing schedule, the most recent three years available 90 days after A.17-10-007 was filed, 2014-2016, were used to allocate the CTC revenue requirement. The "Top 100 hours" methodology allocates revenues based on the customer classes' contribution to the top 100 hours of system load during a given annual period. The resulting CTC class allocations are shown in Attachment C.

VI. SUPPORT OF TOU PERIODS

Current TOU periods were approved in D.17-08-030 and implemented on December 1, 2017. The Commission has stated that a base TOU period analysis should be provided in each GRC Phase 2 proceeding even if the IOU does not propose a change in base TOU periods.[10] Given that the current TOU periods have only recently been approved and implemented, SDG&E believes it is premature to make a change at this time, as discussed in the testimony of witness Stein, Chapter 1. Regardless, this section provides an evaluation of SDG&E's TOU periods using two different methods: a "LOLE" analysis, used to support the current TOU periods adopted in the 2016 GRC D.17-08-030, and the Deadband Tolerance methodology, recently approved through Advice letter.[11]

LOLE Analysis: This analysis identifies periods with the greatest likelihood of needing additional resources. The analysis provides the expectation of the hours with the highest need for new resources given the variable nature of customer demands due to weather and the variable nature of solar and wind energy production.

LOLE is the probability of not meeting load in an hour when key system variables are analyzed stochastically. SDG&E determined the LOLE for the SDG&E system using the ABB Planning and Risk model, a system dispatch model tailored to the SDG&E system.[12] In order to

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[10] D.17-01-006, Appendix 1, Policy Guidelines #6.
[11] AL 3064-E/E-A, approved and effective January 2, 2019.
[12] It is the same production cost model used by SDG&E to forecast procurement costs in the Energy Resource Recovery Account ("ERRA") proceeding. The focus in this analysis is on local capacity and the needs for local capacity that can be reduced through the use of appropriate consumer price signals in TOU periods and demand response availability periods to provide incentives for load modification. The

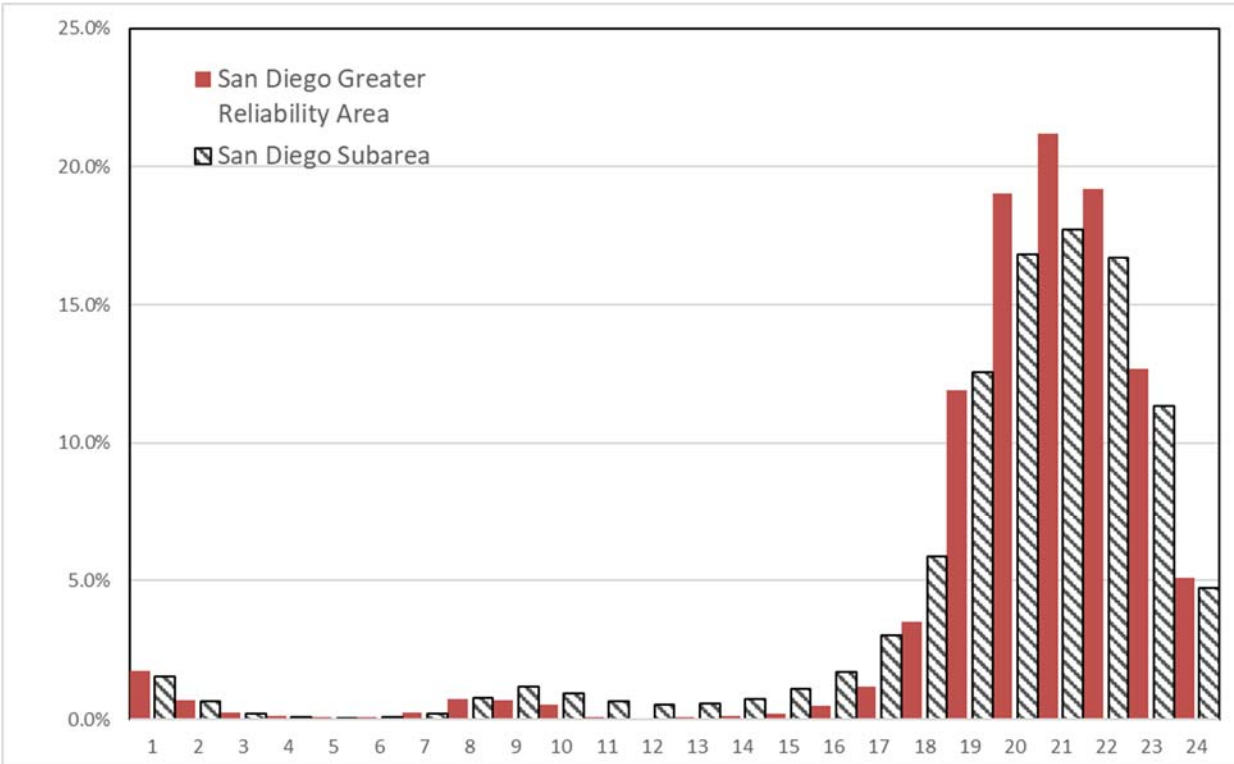
model real world uncertainties, different load and variable renewable production levels are generated by a stochastic process based on historical data. The Planning and Risk model then performs an hourly economic dispatch of generation resources against loads for each hour of the year. By running multiple iterations of the model, a probability distribution of hours with relative expected loss of load can be developed.

Available generation resources in the analysis include generation units (both new renewable and conventional generation) that exist or are expected to be constructed by 2020 in the San Diego Greater Reliability area (both SDG&E service area and Imperial Valley). SDG&E is unique in that local capacity is defined in both the San Diego Greater Reliability area and separately in the San Diego sub-area (excluding generation from Imperial Valley). SDG&E analyzed LOLE for both areas separately and combined. The resulting analysis is not a measure of need for new capacity, but, instead, if there were a need, what hours of the year would experience the highest likelihood of a loss of load.

Chart BAM-3 below is a comparison of relative LOLE results for local capacity in the San Diego Greater Reliability area and for local capacity in the San Diego sub-area. The results show a relative need for capacity during SDG&E's current standard on peak TOU period when considering both the Greater Reliability area and the San Diego sub-area. These results show that the current TOU periods are in alignment with the hours of relative capacity need.

Planning and Risk model accommodates detailed hour-by-hour simulation of the operations of electric systems. It considers a complex set of generation operating constraints to simulate the least-cost operation of the system. The model's unit commitment and dispatch logic is designed to mimic "real world" power system hourly operation, minimizing system production cost, enforcing the constraints specified for the system, generation stations, associated transmission, fuel, etc..

Chart BAM-3: Relative Loss of Load Expectation for the San Diego Local Capacity Areas by Hour



Deadband Tolerance Methodology: D.17-01-006 directs SDG&E to provide analysis using this methodology in each GRC Phase 2 proceeding (even if SDG&E does not propose a change in Base TOU periods).[13] Per Resolution E-4948, SDG&E will utilize a deadband tolerance methodology approved in AL 3064-E/E-A that compares its top 100 hours with existing TOU periods to determine if a proposal to update TOU periods is warranted. This analysis utilizes forecasted marginal energy and capacity costs. SDG&E's approved methodology utilizes a 7.5 percent differential as a trigger; the deadband will be considered exceeded when there is a decline of at least 7.5 percent in the number of top 100 hours that fall

[13] Decision 17-01-006 at Ordering Paragraph 4.

within the summer peak and off-peak period, or a decline of at least 7.5 percent in the number of top 100 lowest hours that fall within the winter off-peak and super-off-peak periods.

The top 100 hours used to calculate marginal generation capacity costs in the 2016 and 2019 Phase 2 GRCs were compared. In both cases, all top 100 hours were in the current SDG&E TOU period summer on and off-peak periods so there is no differential between them and no trigger to evaluate the need to update TOU periods. The top 100 lowest hours used to calculate the marginal energy costs in the 2016 and 2019 Phase 2 GRCs were also compared. In both cases all 100 hours were in the current SDG&E TOU period super off-peak and off-peak periods. The number of top 100 lowest hours that occurred in the winter increased from 17 in the 2016 GRC Phase 2 to 52 in this 2019 GRC Phase 2. Since this was not a decrease in the number of hours that occurred in the winter, the trigger threshold to evaluate the need to update the TOU periods was not met.

VII. SUMMARY AND CONCLUSION

For the foregoing reasons, the marginal commodity costs presented herein as well as the proposal to use the EPMC revenue allocation methodology to allocate the authorized commodity revenue requirement to customer classes are reasonable and should be adopted. In addition, SDG&E recommends that the Commission adopt its proposal to update the data used to allocate the CTC authorized revenue requirement under the "Top 100 hours" allocation methodology. SDG&E recommends no change to the current base TOU periods as it is not warranted at this time.

This concludes my second revised prepared direct testimony.

VIII. WITNESS QUALIFICATIONS

My name is Benjamin A. Montoya. My business address is 8330 Century Park Court, San Diego, California, 92123.

I have been employed as a Principal Resource Planner in the Resource Planning group of SDG&E since 2000. Prior to that, I was employed in positions of increasing responsibility in the following SDG&E departments: Gas Engineering, Gas Operations, Gas Control, and Gas System Planning. I also served as a project engineer with Sempra International for two years. I have been employed with SDG&E for 32 years.

I received a Bachelor of Science in Engineering from the United States Naval Academy and a Master of Business Administration from the University of San Diego. I am a licensed professional Mechanical Engineer in the state of California.

I have previously testified before this Commission.

SDG&E 2019 GRC Phase 2 Testimony Revision Log – January 15, 2020

Witness	Page	Line	Revision Detail
Montoya (Chapter 6)	Cover Page		Changed “Revised Prepared Direct Testimony” to “Second Revised Prepared Direct Testimony”
Montoya (Chapter 6)	Cover Page		Changed “May 2019” to “January 15, 2020”.
Montoya (Chapter 6)	BAM-14	21	Changed “Revised Prepared Direct Testimony” to “Second Revised Prepared Direct Testimony”
Montoya (Chapter 6)	Attachment A1 and A2	Columns I:M	EPMC Rates and Revenue now reflect updated revenue requirement.
Montoya (Chapter 6)	Attachment B2		Revenue Allocations now reflect updated revenue requirement.

ATTACHMENT A

Commodity Marginal Costs

ATTACHMENT A.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, STANDARD TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**RESIDENTIAL**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	6.35	$0	$117,874,017	$117,874,017	0.00	8.93	$0	$165,854,983	$165,854,983	4
5	On-Peak Energy	$/kWh	0.06650	0.00000	$51,724,451	$0	$51,724,451	0.09357	0.00	$72,779,041	$0	$72,779,041	5
6	Off-Peak Energy	$/kWh	0.03981	0.05920	$41,422,230	$61,601,089	$103,023,319	0.05601	0.08329	$58,283,271	$86,675,995	$144,959,266	6
7	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$25,450,265	$0	$25,450,265	0.04981	0.00000	$35,809,871	$0	$35,809,871	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.07432	0.00000	$70,155,350	$0	$70,155,350	0.10457	0.00	$98,712,292	$0	$98,712,292	11
12	Off-Peak Energy	$/kWh	0.04167	0.00000	$49,607,407	$0	$49,607,407	0.05863	0.00000	$69,800,249	$0	$69,800,249	12
13	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$32,451,064	$0	$32,451,064	0.04530	0.00000	$45,660,365	$0	$45,660,365	13
14													14
15	**SMALL COMMERCIAL**												15
16	*Secondary*												16
17	**Summer**												17
18	On-Peak Demand	$/kW	0.00	7.11	$0	$26,439,563	$26,439,563	0.00	10.00	$0	$37,201,865	$37,201,865	18
19	On-Peak Energy	$/kWh	0.06650	0.00000	$14,735,710	$0	$14,735,710	0.09357	0.00	$20,733,925	$0	$20,733,925	19
20	Off-Peak Energy	$/kWh	0.03981	0.02368	$19,342,509	$11,508,767	$30,851,276	0.05601	0.03332	$27,215,934	$16,193,445	$43,409,379	20
21	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$8,803,620	$0	$8,803,620	0.04981	0.00000	$12,387,159	$0	$12,387,159	21
22													22
23	**Winter**												23
24	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	24
25	On-Peak Energy	$/kWh	0.07432	0.00000	$19,836,541	$0	$19,836,541	0.10457	0.00	$27,911,064	$0	$27,911,064	25
26	Off-Peak Energy	$/kWh	0.04167	0.00000	$21,421,560	$0	$21,421,560	0.05863	0.00000	$30,141,269	$0	$30,141,269	26
27	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$12,106,211	$0	$12,106,211	0.04530	0.00000	$17,034,080	$0	$17,034,080	27
28													28
29	*Primary*												29
30	**Summer**												30
31	On-Peak Demand	$/kW	0.00	7.07	$0	$189,718	$189,718	0.00	9.95	$0	$266,943	$266,943	31
32	On-Peak Energy	$/kWh	0.06618	0.00000	$37,983	$0	$37,983	0.09312	0.00	$53,444	$0	$53,444	32
33	Off-Peak Energy	$/kWh	0.03962	0.02357	$60,865	$36,214	$97,079	0.05575	0.03317	$85,640	$50,956	$136,595	33
34	Super Off-Peak Energy	$/kWh	0.03528	0.00000	$35,819	$0	$35,819	0.04964	0.00000	$50,399	$0	$50,399	34
35													35
36	**Winter**												36
37	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	37
38	On-Peak Energy	$/kWh	0.07398	0.00000	$43,918	$0	$43,918	0.10409	0.00	$61,795	$0	$61,795	38
39	Off-Peak Energy	$/kWh	0.04149	0.00000	$64,465	$0	$64,465	0.05838	0.00000	$90,705	$0	$90,705	39
40	Super Off-Peak Energy	$/kWh	0.03209	0.00000	$51,825	$0	$51,825	0.04515	0.00000	$72,921	$0	$72,921	40

ATTACHMENT A.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, STANDARD TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**MEDIUM & LARGE COMMERCIAL/INDUSTRIAL**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	12.22	$0	$67,595,068	$67,595,068	0.00	17.19	$0	$95,109,841	$95,109,841	4
5	On-Peak Energy	$/kWh	0.06650	0.00000	$33,164,508	$0	$33,164,508	0.09357	0.00	$46,664,219	$0	$46,664,219	5
6	Off-Peak Energy	$/kWh	0.03981	0.03028	$41,978,801	$31,933,717	$73,912,518	0.05601	0.04261	$59,066,396	$44,932,431	$103,998,826	6
7	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$21,317,378	$0	$21,317,378	0.04981	0.00000	$29,994,679	$0	$29,994,679	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.07432	0.00000	$43,485,644	$0	$43,485,644	0.10457	0.00	$61,186,604	$0	$61,186,604	11
12	Off-Peak Energy	$/kWh	0.04167	0.00000	$45,985,032	$0	$45,985,032	0.05863	0.00000	$64,703,376	$0	$64,703,376	12
13	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$27,465,307	$0	$27,465,307	0.04530	0.00000	$38,645,142	$0	$38,645,142	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	12.16	$0	$10,590,441	$10,590,441	0.00	17.11	$0	$14,901,312	$14,901,312	17
18	On-Peak Energy	$/kWh	0.06618	0.00000	$6,092,236	$0	$6,092,236	0.09312	0.00	$8,572,099	$0	$8,572,099	18
19	Off-Peak Energy	$/kWh	0.03962	0.03014	$7,800,854	$5,934,192	$13,735,046	0.05575	0.04241	$10,976,215	$8,349,722	$19,325,937	19
20	Super Off-Peak Energy	$/kWh	0.03528	0.00000	$4,756,845	$0	$4,756,845	0.04964	0.00000	$6,693,133	$0	$6,693,133	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.07398	0.00000	$8,044,755	$0	$8,044,755	0.10409	0.00	$11,319,396	$0	$11,319,396	24
25	Off-Peak Energy	$/kWh	0.04149	0.00000	$8,802,010	$0	$8,802,010	0.05838	0.00000	$12,384,895	$0	$12,384,895	25
26	Super Off-Peak Energy	$/kWh	0.03209	0.00000	$5,785,980	$0	$5,785,980	0.04515	0.00000	$8,141,180	$0	$8,141,180	26
27													27
28	*Transmission*												28
29	**Summer**												29
30	On-Peak Demand	$/kW	0.00	11.64	$0	$1,023,395	$1,023,395	0.00	16.37	$0	$1,439,971	$1,439,971	30
31	On-Peak Energy	$/kWh	0.06334	0.00000	$268,441	$0	$268,441	0.08912	0.00	$377,710	$0	$377,710	31
32	Off-Peak Energy	$/kWh	0.03793	0.02886	$394,277	$299,930	$694,207	0.05338	0.04060	$554,768	$422,018	$976,786	32
33	Super Off-Peak Energy	$/kWh	0.03386	0.00000	$242,721	$0	$242,721	0.04764	0.00000	$341,521	$0	$341,521	33
34													34
35	**Winter**												35
36	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	36
37	On-Peak Energy	$/kWh	0.07086	0.00000	$376,598	$0	$376,598	0.09970	0.00	$529,894	$0	$529,894	37
38	Off-Peak Energy	$/kWh	0.03979	0.00000	$445,491	$0	$445,491	0.05599	0.00000	$626,829	$0	$626,829	38
39	Super Off-Peak Energy	$/kWh	0.03079	0.00000	$302,726	$0	$302,726	0.04333	0.00000	$425,951	$0	$425,951	39

ATTACHMENT A.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, STANDARD TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**AGRICULTURE**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	6.95	$0	$3,008,026	$3,008,026	0.00	9.78	$0	$4,232,452	$4,232,452	4
5	On-Peak Energy	$/kWh	0.06650	0.00000	$1,571,531	$0	$1,571,531	0.09357	0.00	$2,211,227	$0	$2,211,227	5
6	Off-Peak Energy	$/kWh	0.03981	0.03413	$2,136,632	$1,832,106	$3,968,738	0.05601	0.04803	$3,006,354	$2,577,871	$5,584,225	6
7	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$1,575,579	$0	$1,575,579	0.04981	0.00000	$2,216,923	$0	$2,216,923	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.07432	0.00000	$1,830,180	$0	$1,830,180	0.10457	0.00	$2,575,160	$0	$2,575,160	11
12	Off-Peak Energy	$/kWh	0.04167	0.00000	$2,189,991	$0	$2,189,991	0.05863	0.00000	$3,081,433	$0	$3,081,433	12
13	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$1,589,616	$0	$1,589,616	0.04530	0.00000	$2,236,674	$0	$2,236,674	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	6.92	$0	$434,513	$434,513	0.00	9.73	$0	$611,383	$611,383	17
18	On-Peak Energy	$/kWh	0.06618	0.00000	$314,122	$0	$314,122	0.09312	0.00	$441,986	$0	$441,986	18
19	Off-Peak Energy	$/kWh	0.03962	0.03397	$397,153	$340,548	$737,701	0.05575	0.04780	$558,815	$479,169	$1,037,984	19
20	Super Off-Peak Energy	$/kWh	0.03528	0.00000	$250,619	$0	$250,619	0.04964	0.00000	$352,634	$0	$352,634	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.07398	0.00000	$388,913	$0	$388,913	0.10409	0.00	$547,221	$0	$547,221	24
25	Off-Peak Energy	$/kWh	0.04149	0.00000	$417,869	$0	$417,869	0.05838	0.00000	$587,963	$0	$587,963	25
26	Super Off-Peak Energy	$/kWh	0.03209	0.00000	$285,017	$0	$285,017	0.04515	0.00000	$401,034	$0	$401,034	26
27													27
28	**LIGHTING**												28
29	*Secondary*												29
30	**Summer**												30
31	On-Peak Demand	$/kW	0.00	12.47	$0	$1,339,519	$1,339,519	0.00	17.54	$0	$1,884,774	$1,884,774	31
32	On-Peak Energy	$/kWh	0.06650	0.00000	$369,586	$0	$369,586	0.09357	0.00	$520,027	$0	$520,027	32
33	Off-Peak Energy	$/kWh	0.03981	0.10597	$392,719	$1,045,512	$1,438,231	0.05601	0.14911	$552,577	$1,471,090	$2,023,667	33
34	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$609,232	$0	$609,232	0.04981	0.00000	$857,222	$0	$857,222	34
35													35
36	**Winter**												36
37	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	37
38	On-Peak Energy	$/kWh	0.07432	0.00000	$1,025,195	$0	$1,025,195	0.10457	0.00	$1,442,503	$0	$1,442,503	38
39	Off-Peak Energy	$/kWh	0.04167	0.00000	$572,199	$0	$572,199	0.05863	0.00000	$805,114	$0	$805,114	39
40	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$804,315	$0	$804,315	0.04530	0.00000	$1,131,713	$0	$1,131,713	40

ATTACHMENT A.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, STANDARD TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**SCHOOLS**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	7.85	$0	$2,987,247	$2,987,247	0.00	11.04	$0	$4,203,215	$4,203,215	4
5	On-Peak Energy	$/kWh	0.06650	0.00000	$1,327,206	$0	$1,327,206	0.09357	0.00	$1,867,450	$0	$1,867,450	5
6	Off-Peak Energy	$/kWh	0.03981	0.01766	$2,764,813	$1,226,831	$3,991,644	0.05601	0.02485	$3,890,238	$1,726,216	$5,616,454	6
7	Super Off-Peak Energy	$/kWh	0.03540	0.00000	$778,299	$0	$778,299	0.04981	0.00000	$1,095,108	$0	$1,095,108	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.07432	0.00000	$2,109,334	$0	$2,109,334	0.10457	0.00	$2,967,944	$0	$2,967,944	11
12	Off-Peak Energy	$/kWh	0.04167	0.00000	$3,304,644	$0	$3,304,644	0.05863	0.00000	$4,649,809	$0	$4,649,809	12
13	Super Off-Peak Energy	$/kWh	0.03219	0.00000	$1,322,494	$0	$1,322,494	0.04530	0.00000	$1,860,819	$0	$1,860,819	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	7.81	$0	$309,747	$309,747	0.00	10.99	$0	$435,830	$435,830	17
18	On-Peak Energy	$/kWh	0.06618	0.00000	$174,160	$0	$174,160	0.09312	0.00	$245,053	$0	$245,053	18
19	Off-Peak Energy	$/kWh	0.03962	0.01758	$337,092	$149,578	$486,670	0.05575	0.02474	$474,306	$210,464	$684,770	19
20	Super Off-Peak Energy	$/kWh	0.03528	0.00000	$114,558	$0	$114,558	0.04964	0.00000	$161,190	$0	$161,190	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.07398	0.00000	$295,422	$0	$295,422	0.10409	0.00	$415,674	$0	$415,674	24
25	Off-Peak Energy	$/kWh	0.04149	0.00000	$400,280	$0	$400,280	0.05838	0.00000	$563,216	$0	$563,216	25
26	Super Off-Peak Energy	$/kWh	0.03209	0.00000	$173,909	$0	$173,909	0.04515	0.00000	$244,700	$0	$244,700	26
27													27
28	*Transmission*												28
29	**Summer**												29
30	On-Peak Demand	$/kW	0.00	7.47	$0	$0	$0	0.00	10.52	$0	$0	$0	30
31	On-Peak Energy	$/kWh	0.06334	0.00000	$0	$0	$0	0.08912	0.00	$0	$0	$0	31
32	Off-Peak Energy	$/kWh	0.03793	0.01683	$0	$0	$0	0.05338	0.02368	$0	$0	$0	32
33	Super Off-Peak Energy	$/kWh	0.03386	0.00000	$0	$0	$0	0.04764	0.00000	$0	$0	$0	33
34													34
35	**Winter**												35
36	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	36
37	On-Peak Energy	$/kWh	0.07086	0.00000	$0	$0	$0	0.09970	0.00	$0	$0	$0	37
38	Off-Peak Energy	$/kWh	0.03979	0.00000	$0	$0	$0	0.05599	0.00000	$0	$0	$0	38
39	Super Off-Peak Energy	$/kWh	0.03079	0.00000	$0	$0	$0	0.04333	0.00000	$0	$0	$0	39
40													40
41	**TOTAL RATE REVENUE SUMMARY**												41
42					**Energy**	**Capacity**	**Total**			**Energy**	**Capacity**	**Total**	42
43	**RESIDENTIAL**				$270,810,767	$179,475,106	$450,285,873			$381,045,090	$252,530,978	$633,576,067	43
44	**SMALL COMMERCIAL**				$96,541,025	$38,174,262	$134,715,287			$135,838,335	$53,713,208	$189,551,543	44
45	**MEDIUM/LARGE C&I**				$256,709,604	$117,376,744	$374,086,347			$361,204,006	$165,155,294	$526,359,300	45
46	**AGRICULTURAL**				$12,947,220	$5,615,194	$18,562,414			$18,217,424	$7,900,875	$26,118,299	46
47	**LIGHTING**				$3,773,245	$2,385,031	$6,158,276			$5,309,156	$3,355,864	$8,665,020	47
48	**SCHOOLS**				$13,102,212	$4,673,402	$17,775,615			$18,435,507	$6,575,725	$25,011,231	48
49	**TOTAL**				$653,884,073	$347,699,738	$1,001,583,812			$920,049,517	$489,231,944	$1,409,281,461	49

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, GRANDFATHERED TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**RESIDENTIAL**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	0.39	$0	$6,302,468	$6,302,468	0.00	0.56	$0	$9,025,477	$9,025,477	4
5	**Grandfathering TOU**												5
6	On-Peak Energy	$/kWh	0.02705	0.00000	$13,247,760	$0	$13,247,760	0.03874	0.00000	$18,971,514	$0	$18,971,514	6
7	Semi-Peak Energy	$/kWh	0.06475	0.20518	$45,203,575	$143,231,922	$188,435,497	0.09273	0.29383	$64,733,983	$205,115,919	$269,849,902	7
8	Off-Peak Energy	$/kWh	0.03990	0.01483	$48,953,460	$18,197,044	$67,150,504	0.05713	0.02124	$70,104,023	$26,059,159	$96,163,182	8
9	**Schedule DRTOU**												9
10	On-Peak Energy	$/kWh	0.02852	0.00000	$10,978	$0	$10,978	0.04084	0.00000	$15,722	$0	$15,722	10
11	Off-Peak Energy	$/kWh	0.04703	0.07636	$122,223	$198,442	$320,665	0.06735	0.10936	$175,030	$284,180	$459,210	11
12	**Schedule DRSES**												12
13	On-Peak Energy	$/kWh	0.02705	0.00000	-$769,081	$0	-$769,081	0.03874	0.00000	-$1,101,367	$0	-$1,101,367	13
14	Semi-Peak Energy	$/kWh	0.06475	0.20518	$1,797,826	$5,696,586	$7,494,412	0.09273	0.29383	$2,574,585	$8,157,822	$10,732,407	14
15	Off-Peak Energy	$/kWh	0.03990	0.01483	$1,974,671	$734,027	$2,708,698	0.05713	0.02124	$2,827,836	$1,051,167	$3,879,003	15
16	**Schedule EVTOU**												16
17	On-Peak Energy	$/kWh	0.03797	0.00000	$792	$0	$792	0.05438	0.00000	$1,134	$0	$1,134	17
18	Off-Peak Energy	$/kWh	0.04902	0.15720	$1,344	$4,308	$5,652	0.07021	0.22511	$1,924	$6,170	$8,094	18
19	Super Off-Peak Energy	$/kWh	0.04165	0.00000	$5,609	$0	$5,609	0.05965	0.00000	$8,032	$0	$8,032	19
20	**Schedule EVTOU2**												20
21	On-Peak Energy	$/kWh	0.02431	0.00000	$136,207	$0	$136,207	0.03482	0.00000	$195,056	$0	$195,056	21
22	Off-Peak Energy	$/kWh	0.05338	0.13875	$2,236,105	$5,812,434	$8,048,540	0.07644	0.19870	$3,202,225	$8,323,723	$11,525,948	22
23	Super Off-Peak Energy	$/kWh	0.04165	0.00000	$956,121	$0	$956,121	0.05965	0.00000	$1,369,217	$0	$1,369,217	23
24													24
25	**Winter**												25
26	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	26
27	**Grandfathering TOU**												27
28	On-Peak Energy	$/kWh	0.08398	0.00000	$31,246,452	$0	$31,246,452	0.12026	0.00000	$44,746,622	$0	$44,746,622	28
29	Semi-Peak Energy	$/kWh	0.03936	0.00000	$40,719,511	$0	$40,719,511	0.05636	0.00000	$58,312,559	$0	$58,312,559	29
30	Off-Peak Energy	$/kWh	0.04217	0.00000	$66,674,354	$0	$66,674,354	0.06039	0.00000	$95,481,309	$0	$95,481,309	30
31	**Schedule DRTOU**												31
32	On-Peak Energy	$/kWh	0.02788	0.00000	$12,228	$0	$12,228	0.03993	0.00000	$17,512	$0	$17,512	32
33	Off-Peak Energy	$/kWh	0.04823	0.00000	$168,953	$0	$168,953	0.06907	0.00000	$241,949	$0	$241,949	33
34	**Schedule DRSES**												34
35	Semi-Peak Energy	$/kWh	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	35
36	Off-Peak Energy	$/kWh	0.03165	0.00000	-$1,117,625	$0	-$1,117,625	0.04533	0.00000	-$1,600,500	$0	-$1,600,500	36
37	Super Off-Peak Energy	$/kWh	0.05161	0.00000	$5,117,384	$0	$5,117,384	0.07391	0.00000	$7,328,373	$0	$7,328,373	37
38	**Schedule EVTOU**												38
39	On-Peak Energy	$/kWh	0.04074	0.00000	$1,314	$0	$1,314	0.05834	0.00000	$1,881	$0	$1,881	39
40	Off-Peak Energy	$/kWh	0.04844	0.00000	$1,922	$0	$1,922	0.06936	0.00000	$2,752	$0	$2,752	40
41	Super Off-Peak Energy	$/kWh	0.04290	0.00000	$7,899	$0	$7,899	0.06144	0.00000	$11,312	$0	$11,312	41
42	**Schedule EVTOU2**												42
43	On-Peak Energy	$/kWh	0.07801	0.00000	$514,289	$0	$514,289	0.11172	0.00000	$736,489	$0	$736,489	43
44	Off-Peak Energy	$/kWh	0.03392	0.00000	$1,756,723	$0	$1,756,723	0.04858	0.00000	$2,515,724	$0	$2,515,724	44
45	Super Off-Peak Energy	$/kWh	0.04290	0.00000	$1,221,473	$0	$1,221,473	0.06144	0.00000	$1,749,216	$0	$1,749,216	45

SAN DIEGO GAS & ELECTRIC COMPANY
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Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**<u>SMALL COMMERCIAL</u>**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	0.65	$0	$2,537,315	$2,537,315	0.00	0.94	$0	$3,633,573	$3,633,573	4
5	On-Peak Energy	$/kWh	0.02705	0.00000	$7,745,627	$0	$7,745,627	0.03874	0.00000	$11,092,160	$0	$11,092,160	5
6	Semi-Peak Energy	$/kWh	0.06475	0.11935	$17,229,781	$31,757,378	$48,987,159	0.09273	0.17092	$24,673,985	$45,478,296	$70,152,282	6
7	Super Off-Peak Energy	$/kWh	0.03990	0.00929	$16,108,206	$3,750,273	$19,858,479	0.05713	0.01330	$23,067,829	$5,370,595	$28,438,424	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.08398	0.00000	$9,743,747	$0	$9,743,747	0.12026	0.00000	$13,953,576	$0	$13,953,576	11
12	Semi-Peak Energy	$/kWh	0.03936	0.00000	$20,692,613	$0	$20,692,613	0.05636	0.00000	$29,632,950	$0	$29,632,950	12
13	Super Off-Peak Energy	$/kWh	0.04217	0.00000	$21,731,192	$0	$21,731,192	0.06039	0.00000	$31,120,251	$0	$31,120,251	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	0.65	$0	$17,984	$17,984	0.00	0.93	$0	$25,754	$25,754	17
18	On-Peak Energy	$/kWh	0.02691	0.00000	$20,534	$0	$20,534	0.03853	0.00000	$29,406	$0	$29,406	18
19	Semi-Peak Energy	$/kWh	0.06445	0.11879	$52,631	$97,009	$149,640	0.09229	0.17011	$75,371	$138,922	$214,293	19
20	Super Off-Peak Energy	$/kWh	0.03975	0.00925	$61,438	$14,304	$75,741	0.05693	0.01325	$87,982	$20,484	$108,466	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.08357	0.00000	$19,813	$0	$19,813	0.11968	0.00000	$28,373	$0	$28,373	24
25	Semi-Peak Energy	$/kWh	0.03918	0.00000	$63,079	$0	$63,079	0.05611	0.00000	$90,332	$0	$90,332	25
26	Super Off-Peak Energy	$/kWh	0.04203	0.00000	$80,504	$0	$80,504	0.06019	0.00000	$115,286	$0	$115,286	26

ATTACHMENT A.2

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Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**MEDIUM & LARGE COMMERCIAL/INDUSTRIAL**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	0.92	$0	$5,281,723	$5,281,723	0.00	1.32	$0	$7,563,715	$7,563,715	4
5	On-Peak Energy	$/kWh	0.02705	0.00000	$15,401,325	$0	$15,401,325	0.03874	0.00000	$22,055,536	$0	$22,055,536	5
6	Semi-Peak Energy	$/kWh	0.06475	0.13282	$40,112,071	$82,277,836	$122,389,907	0.09273	0.19021	$57,442,672	$117,826,345	$175,269,018	6
7	Super Off-Peak Energy	$/kWh	0.03990	0.01064	$38,564,360	$10,282,530	$48,846,889	0.05713	0.01523	$55,226,265	$14,725,143	$69,951,408	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.08398	0.00000	$21,302,857	$0	$21,302,857	0.12026	0.00000	$30,506,852	$0	$30,506,852	11
12	Semi-Peak Energy	$/kWh	0.03936	0.00000	$43,403,370	$0	$43,403,370	0.05636	0.00000	$62,155,991	$0	$62,155,991	12
13	Super Off-Peak Energy	$/kWh	0.04217	0.00000	$49,993,002	$0	$49,993,002	0.06039	0.00000	$71,592,703	$0	$71,592,703	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	0.92	$0	$821,161	$821,161	0.00	1.31	$0	$1,175,947	$1,175,947	17
18	On-Peak Energy	$/kWh	0.02691	0.00000	$2,605,977	$0	$2,605,977	0.03853	0.00000	$3,731,902	$0	$3,731,902	18
19	Semi-Peak Energy	$/kWh	0.06445	0.13220	$7,592,262	$15,573,240	$23,165,502	0.09229	0.18931	$10,872,534	$22,301,729	$33,174,262	19
20	Super Off-Peak Energy	$/kWh	0.03975	0.01060	$8,312,510	$2,216,389	$10,528,899	0.05693	0.01518	$11,903,967	$3,173,990	$15,077,957	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.08357	0.00000	$3,861,164	$0	$3,861,164	0.11968	0.00000	$5,529,397	$0	$5,529,397	24
25	Semi-Peak Energy	$/kWh	0.03918	0.00000	$7,999,682	$0	$7,999,682	0.05611	0.00000	$11,455,980	$0	$11,455,980	25
26	Super Off-Peak Energy	$/kWh	0.04203	0.00000	$10,541,933	$0	$10,541,933	0.06019	0.00000	$15,096,622	$0	$15,096,622	26
27													27
28	*Transmission*												28
29	**Summer**												29
30	On-Peak Demand	$/kW	0.00	0.88	$0	$86,756	$86,756	0.00	1.25	$0	$124,239	$124,239	30
31	On-Peak Energy	$/kWh	0.02571	0.00000	$131,200	$0	$131,200	0.03682	0.00000	$187,885	$0	$187,885	31
32	Semi-Peak Energy	$/kWh	0.06171	0.12657	$353,745	$725,602	$1,079,347	0.08837	0.18126	$506,583	$1,039,102	$1,545,684	32
33	Super Off-Peak Energy	$/kWh	0.03814	0.01017	$418,205	$111,507	$529,713	0.05462	0.01456	$598,893	$159,685	$758,577	33
34													34
35	**Winter**												35
36	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	36
37	On-Peak Energy	$/kWh	0.07999	0.00000	$168,994	$0	$168,994	0.11455	0.00000	$242,008	$0	$242,008	37
38	Semi-Peak Energy	$/kWh	0.03755	0.00000	$419,696	$0	$419,696	0.05378	0.00000	$601,027	$0	$601,027	38
39	Super Off-Peak Energy	$/kWh	0.04033	0.00000	$526,463	$0	$526,463	0.05776	0.00000	$753,923	$0	$753,923	39

ATTACHMENT A.2

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Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**AGRICULTURE**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	0.52	$0	$211,081	$211,081	0.00	0.74	$0	$302,280	$302,280	4
5	On-Peak Energy	$/kWh	0.02705	0.00000	$560,049	$0	$560,049	0.03874	0.00000	$802,020	$0	$802,020	5
6	Semi-Peak Energy	$/kWh	0.06475	0.11567	$2,153,553	$3,846,839	$6,000,392	0.09273	0.16564	$3,084,005	$5,508,884	$8,592,889	6
7	Super Off-Peak Energy	$/kWh	0.03990	0.01062	$2,706,985	$720,373	$3,427,358	0.05713	0.01520	$3,876,551	$1,031,613	$4,908,163	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.08398	0.00000	$832,532	$0	$832,532	0.12026	0.00000	$1,192,231	$0	$1,192,231	11
12	Semi-Peak Energy	$/kWh	0.03936	0.00000	$1,862,638	$0	$1,862,638	0.05636	0.00000	$2,667,400	$0	$2,667,400	12
13	Super Off-Peak Energy	$/kWh	0.04217	0.00000	$2,923,559	$0	$2,923,559	0.06039	0.00000	$4,186,696	$0	$4,186,696	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	0.51	$0	$32,027	$32,027	0.00	0.74	$0	$45,864	$45,864	17
18	On-Peak Energy	$/kWh	0.02691	0.00000	$116,341	$0	$116,341	0.03853	0.00000	$166,607	$0	$166,607	18
19	Semi-Peak Energy	$/kWh	0.06445	0.11512	$381,733	$681,880	$1,063,613	0.09229	0.16486	$546,662	$976,489	$1,523,152	19
20	Super Off-Peak Energy	$/kWh	0.03975	0.01058	$462,179	$122,993	$585,173	0.05693	0.01515	$661,866	$176,133	$837,999	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.08357	0.00000	$167,225	$0	$167,225	0.11968	0.00000	$239,476	$0	$239,476	24
25	Semi-Peak Energy	$/kWh	0.03918	0.00000	$355,017	$0	$355,017	0.05611	0.00000	$508,404	$0	$508,404	25
26	Super Off-Peak Energy	$/kWh	0.04203	0.00000	$552,622	$0	$552,622	0.06019	0.00000	$791,385	$0	$791,385	26
27													27
28	**LIGHTING**												28
29	*Secondary*												29
30	**Summer**												30
31	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	31
32	On-Peak Energy	$/kWh	0.02705	0.00000	$150,336	$0	$150,336	0.03874	0.00000	$215,289	$0	$215,289	32
33	Semi-Peak Energy	$/kWh	0.06475	0.20444	$638,857	$2,016,972	$2,655,828	0.09273	0.29276	$914,878	$2,888,413	$3,803,291	33
34	Super Off-Peak Energy	$/kWh	0.03990	0.02139	$686,547	$368,059	$1,054,606	0.05713	0.03063	$983,173	$527,080	$1,510,254	34
35													35
36	**Winter**												36
37	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	37
38	On-Peak Energy	$/kWh	0.08398	0.00000	$1,158,412	$0	$1,158,412	0.12026	0.00000	$1,658,909	$0	$1,658,909	38
39	Semi-Peak Energy	$/kWh	0.03936	0.00000	$540,494	$0	$540,494	0.05636	0.00000	$774,016	$0	$774,016	39
40	Super Off-Peak Energy	$/kWh	0.04217	0.00000	$1,053,638	$0	$1,053,638	0.06039	0.00000	$1,508,867	$0	$1,508,867	40

ATTACHMENT A.2

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY MARGINAL COSTS AND EPMC RATES & REVENUES, GRANDFATHERED TOU - CHAPTER 6 (MONTOYA)

Line No.	Description (A)	Unit (B)	Marginal Energy Rate w/ losses (C)	Marginal Capacity Rate w/ losses (D)	Marginal Energy Rate Revenue (E)	Marginal Capacity Rate Revenue (F)	Total Marginal Rate Revenue (G)	EPMC Energy Rate (H)	EPMC Capacity Rate (I)	EPMC Energy Rate Revenue (J)	EPMC Capacity Rate Revenue (K)	Total EPMC Rate Revenue (L)	Line No.
1	**SCHOOLS**												1
2	*Secondary*												2
3	**Summer**												3
4	On-Peak Demand	$/kW	0.00	0.54	$0	$319,272	$319,272	0.00	0.78	$0	$457,215	$457,215	4
5	On-Peak Energy	$/kWh	0.02705	0.00000	$1,079,184	$0	$1,079,184	0.03874	0.00000	$1,545,451	$0	$1,545,451	5
6	Semi-Peak Energy	$/kWh	0.06475	0.09132	$2,407,252	$3,394,856	$5,802,108	0.09273	0.13077	$3,447,316	$4,861,619	$8,308,935	6
7	Super Off-Peak Energy	$/kWh	0.03990	0.01170	$1,369,552	$401,488	$1,771,041	0.05713	0.01675	$1,961,274	$574,953	$2,536,227	7
8													8
9	**Winter**												9
10	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	10
11	On-Peak Energy	$/kWh	0.08398	0.00000	$1,106,656	$0	$1,106,656	0.12026	0.00000	$1,584,792	$0	$1,584,792	11
12	Semi-Peak Energy	$/kWh	0.03936	0.00000	$3,397,464	$0	$3,397,464	0.05636	0.00000	$4,865,353	$0	$4,865,353	12
13	Super Off-Peak Energy	$/kWh	0.04217	0.00000	$2,077,968	$0	$2,077,968	0.06039	0.00000	$2,975,763	$0	$2,975,763	13
14													14
15	*Primary*												15
16	**Summer**												16
17	On-Peak Demand	$/kW	0.00	0.54	$0	$31,433	$31,433	0.00	0.78	$0	$45,013	$45,013	17
18	On-Peak Energy	$/kWh	0.02691	0.00000	$114,564	$0	$114,564	0.03853	0.00000	$164,062	$0	$164,062	18
19	Semi-Peak Energy	$/kWh	0.06445	0.09089	$332,118	$468,373	$800,491	0.09229	0.13016	$475,611	$670,736	$1,146,347	19
20	Super Off-Peak Energy	$/kWh	0.03975	0.01165	$197,781	$57,980	$255,761	0.05693	0.01669	$283,233	$83,031	$366,263	20
21													21
22	**Winter**												22
23	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	23
24	On-Peak Energy	$/kWh	0.08357	0.00000	$157,121	$0	$157,121	0.11968	0.00000	$225,006	$0	$225,006	24
25	Semi-Peak Energy	$/kWh	0.03918	0.00000	$400,570	$0	$400,570	0.05611	0.00000	$573,638	$0	$573,638	25
26	Super Off-Peak Energy	$/kWh	0.04203	0.00000	$292,388	$0	$292,388	0.06019	0.00000	$418,715	$0	$418,715	26
27													27
28	*Transmission*												28
29	**Summer**												29
30	On-Peak Demand	$/kW	0.00	0.52	$0	$0	$0	0.00	0.74	$0	$0	$0	30
31	On-Peak Energy	$/kWh	0.02571	0.00000	$0	$0	$0	0.03682	0.00000	$0	$0	$0	31
32	Semi-Peak Energy	$/kWh	0.06171	0.08702	$0	$0	$0	0.08837	0.12462	$0	$0	$0	32
33	Super Off-Peak Energy	$/kWh	0.03814	0.01118	$0	$0	$0	0.05462	0.01601	$0	$0	$0	33
34													34
35	**Winter**												35
36	On-Peak Demand	$/kW	0.00	0.00	$0	$0	$0	0.00	0.00	$0	$0	$0	36
37	On-Peak Energy	$/kWh	0.07999	0.00000	$0	$0	$0	0.11455	0.00000	$0	$0	$0	37
38	Semi-Peak Energy	$/kWh	0.03755	0.00000	$0	$0	$0	0.05378	0.00000	$0	$0	$0	38
39	Super Off-Peak Energy	$/kWh	0.04033	0.00000	$0	$0	$0	0.05776	0.00000	$0	$0	$0	39
40													40
41	**TOTAL RATE REVENUE SUMMARY**												41
42					**Energy**	**Capacity**	**Total**			**Energy**	**Capacity**	**Total**	42
43	**RESIDENTIAL**				$260,202,467	$180,177,232	$440,379,699			$372,624,114	$258,023,616	$630,647,730	43
44	**SMALL COMMERCIAL**				$93,549,164	$38,174,262	$131,723,426			$133,967,501	$54,667,624	$188,635,125	44
45	**MEDIUM/LARGE C&I**				$251,708,814	$117,376,744	$369,085,558			$360,460,740	$168,089,894	$528,550,634	45
46	**AGRICULTURAL**				$13,074,435	$5,615,194	$18,689,628			$18,723,303	$8,041,263	$26,764,566	46
47	**LIGHTING**				$4,228,283	$2,385,031	$6,613,314			$6,055,132	$3,415,494	$9,470,625	47
48	**SCHOOLS**				$12,932,617	$4,673,402	$17,606,020			$18,520,213	$6,692,567	$25,212,780	48
49	**TOTAL**				$635,695,780	$348,401,865	$984,097,644			$910,351,003	$498,930,458	$1,409,281,461	49

ATTACHMENT B

Commodity Revenue Allocations

ATTACHMENT B.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
ELECTRIC COMMODITY REVENUE ALLOCATION - CHAPTER 6 (MONTOYA)

Commodity Marginal Cost Allocation by Customer Class

		PROPOSED GRC P2 (STANDARD TOU)				
		MARGINAL ENERGY COSTS		MARGINAL CAPACITY COSTS		
Line No.	Customer Class (A)	% Allocation (B)	$ Allocation (C)	% Allocation (D)	$ Allocation (E)	Line No.
1	RESIDENTIAL	41.42%	$270,810,767	51.62%	$179,475,106	1
2	SMALL COMMERCIAL	14.76%	$96,541,025	10.98%	$38,174,262	2
3	MEDIUM/LARGE C&I	39.26%	$256,709,604	33.76%	$117,376,744	3
4	AGRICULTURAL	1.98%	$12,947,220	1.61%	$5,615,194	4
5	LIGHTING	0.58%	$3,773,245	0.69%	$2,385,031	5
6	SCHOOLS	2.00%	$13,102,212	1.34%	$4,673,402	6
7	TOTAL	100.00%	$653,884,073	100.00%	$347,699,738	7

ATTACHMENT B.2

SAN DIEGO GAS & ELECTRIC COMPANY
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ELECTRIC COMMODITY REVENUE ALLOCATION - CHAPTER 6 (MONTOYA)

Commodity Allocation by Customer Class

		CURRENT (D.17-08-030)		PROPOSED GRC P2 (STANDARD TOU)				
Line No.	Customer Class (A)	% Allocation (B)	$ Allocation (C)	% Allocation (D)	$ Allocation (E)	$ Change (F)	% Change (G)	Line No.
1	RESIDENTIAL	41.97%	$603,592,508	44.96%	$633,576,067	$29,983,560	4.97%	1
2	SMALL COMMERCIAL	13.01%	$187,031,778	13.45%	$189,551,543	$2,519,765	1.35%	2
3	MEDIUM/LARGE C&I	41.19%	$592,332,730	37.35%	$526,359,300	-$65,973,430	-11.14%	3
4	AGRICULTURAL	1.47%	$21,128,400	1.85%	$26,118,299	$4,989,899	23.62%	4
5	LIGHTING	0.36%	$5,196,046	0.61%	$8,665,020	$3,468,975	66.76%	5
6	SCHOOLS	2.00%	$28,782,710	1.77%	$25,011,231	-$3,771,479	-13.10%	6
7	TOTAL	100.00%	$1,438,064,171	100.00%	$1,409,281,461	-$28,782,710	-2.00%	7

ATTACHMENT C

CTC Revenue Allocation

ATTACHMENT C

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
CTC REVENUE ALLOCATION - CHAPTER 6 (MONTOYA)

CTC Allocation by Customer Class

		CURRENT (D.17-08-030)		PROPOSED GRC P2				
Line No.	Customer Class (A)	% Allocation (B)	$ Allocation (C)	% Allocation (D)	$ Allocation (E)	$ Change (F)	% Change (G)	Line No.
1	RESIDENTIAL	38.55%	$4,874,869	38.55%	$4,874,863	-$5	0.00%	1
2	SMALL COMMERCIAL	12.56%	$1,588,766	12.49%	$1,579,646	-$9,119	-0.57%	2
3	MEDIUM/LARGE C&I	47.79%	$6,042,646	45.87%	$5,800,467	-$242,178	-4.01%	3
4	AGRICULTURAL	1.06%	$134,269	1.06%	$133,872	-$397	-0.30%	4
5	LIGHTING	0.03%	$3,951	0.03%	$3,951	$0	0.00%	5
6	SCHOOLS			1.99%	$251,700	$251,700		6
7	TOTAL	100.00%	$12,644,500	100.00%	$12,644,500	$0	0.00%	7

ATTACHMENT D

Grandfathered Marginal Energy Costs

ATTACHMENT D.1

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
GRANDFATHERED TOU PERIODS - CHAPTER 6 (MONTOYA)

Grandfathered Marginal Energy Costs

SDG&E Grandfathered TOU Periods					
	MEC Factors			MEC Cents per kWh	
	Summer	Winter		Summer	Winter
On-Peak	0.501	2.130	x Average Annual Price (3.298 ¢/kWh)	1.653	7.026
Semi_Peak	1.582	0.858		5.218	2.830
Off-Peak	0.877	0.944		2.894	3.113

ATTACHMENT D.2

SAN DIEGO GAS & ELECTRIC COMPANY
2019 GENERAL RATE CASE (GRC) PHASE 2 - APPLICATION 19-03-XXX
GRANDFATHERED TOU PERIODS - CHAPTER 6 (MONTOYA)

Grandfathered TOU Marginal Energy Prices

SDG&E Grandfathered TOU Periods	A Wholesale (¢/kWh)	B RPS Adder (¢/kWh)	A + B Total (¢/kWh)
Summer (May 1 - October 31)			
On-peak : 11am - 6pm non-holiday weekdays	1.653	0.889	2.542
Semi-*peak:* All other hours	5.218	0.889	6.107
Off-peak: 10pm-6am non-holiday weekdays and all weekends/holidays	2.894	0.889	3.783
Winter (November 1 - April 30)			
On-peak : 5pm - 8pm non-holiday weekdays	7.026	0.889	7.915
Semi-*peak:* All other hours	2.830	0.889	3.719
Off-peak: 10pm-6am non-holiday weekdays and all weekends/holidays	3.113	0.889	4.003
	RPS Premium	2.695	
	RPS %	33%	