Application of)
SAN DIEGO GAS & ELECTRIC COMPANY)
For Authority to Update)
Cost Allocation And Electric Rate Design)
(U 902-E))
Application No. 08-11-014 Exhibit No.: (SDGE-03)	

PREPARED REVISED DIRECT TESTIMONY OF JAMES S. PARSONS ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

JANUARY 27, 2009

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PREPARED REVISED DIRECT TESTIMONY

OF

JAMES S. PARSONS

CHAPTER 3

I. OVERVIEW AND PURPOSE

The purpose of my testimony is to present: (1) San Diego Gas & Electric's (SDG&E) proposed System Revenue Allocation for this Rate Design Window (RDW) application; (2) SDG&E's proposed RDW Distribution Revenue Allocation based on Test Year (TY) 2009 rate class sales and distribution allocation determinants; (3) SDG&E's proposed RDW Commodity Revenue Allocation and rate schedule commodity rates based on TY 2009 class sales and commodity allocation determinants; and (4) the results of a Large & Medium Commercial Industrial rate class split into Medium Commercial Industrial and Large Commercial Industrial rate classes based on hourly load research data from years 2004 through 2006.

The current system revenue allocation, distribution rates, and commodity rates are based on a settlement of distribution and commodity class revenue allocations adopted by the Commission in Decision (D.) 08-02-034, SDG&E's General Rate Case (GRC) Phase 2 decision (GRC Phase 2 Settlement). In D.08-02-034, no specific marginal costs for revenue allocation were adopted by the Commission, but rather only class revenue requirements.

SDG&E normally submits comprehensive new or revised marginal distribution and commodity cost studies either every three years in RDW applications, or as Phase 2 of a GRC application. These marginal cost studies then form the basis of subsequent distribution and commodity revenue allocation proposals. In the RDW Applications where SDG&E does not propose new marginal costs, the existing distribution and commodity revenue allocations are updated using the RDW Application TY sales and allocation determinants. Marginal costs are not updated or revised. Since SDG&E's last adopted revenue allocation was in year 2008, SDG&E does not propose revised marginal costs for this TY 2009 RDW application.

The GRC Phase 2 Settlement required an analysis of splitting the commercial and industrial customer classes into three levels based on their kW demands ("Class Split Study"). This Class Split Study was duly filed on August 1, 2008, and a conference call, open to all parties on the SDG&E GRC Phase 2 (A.07-01-047) service list, was held to discuss the results. As required by the Settlement Agreement, the Class Split Study is presented in this Application

on an informational basis. SDG&E is not proposing revenue allocation or rates based on the Class Split Study.

The GRC Phase 2 Settlement Agreement also required SDG&E to propose in this Application at least one additional split of the current Commercial & Industrial customer class (C&I). In compliance with this requirement, this testimony proposes the required additional intra-class revenue allocations for distribution and commodity requirements in splitting this C&I class.

Witness Hansen, in his direct testimony, discusses further the requirements and the rationale of the proposed revenue allocation and rates split of the current Large & Medium C&I class into a Medium C&I class and a Large C&I class at the 500kW demand level. SDG&E does not believe that this class split is necessary to provide cost-based pricing. The current distribution and commodity rates, based on the GRC Phase 2 Settlement, already incorporate suitable rate structures to provide meaningful price signals for the customers in the C&I class. The splitting of the C&I class into two classes may not provide meaningful price signals.

Table JSP-1 provides the proposed system revenue allocation of all the revenue components, including Distribution and Commodity revenue requirements that incorporate both TY 2009 sales and allocation determinants, and a rate class split for the C&I class in to Medium and Large classes.

II. MARGINAL COSTS

A. General Approach

Because no marginal costs were explicitly adopted in the GRC Phase 2 Settlement, a proxy for rate class marginal costs was devised in order to incorporate TY 2009 sales and allocation determinants into a revenue allocation. These proxy class marginal costs were then applied to the TY 2009 sales and allocation determinants to derive class Marginal Cost Revenue Responsibilities (MCRR). The class MCRR values were then used for an Equal Percent Marginal Cost (EPMC) revenue allocation of the revenue requirement for system Distribution and Commodity revenue requirements.

The C&I class split into Medium and Large classes also required the derivation of marginal cost proxies to calculate MCRR for these two classes. These MCRRs were then used to split the total Commercial Industrial class allocated distribution and commodity revenue requirements in an intra-class type approach.

B. Distribution

Proxy marginal distribution rates were derived from the adopted class revenue requirements by using the adopted TY 2008 class' sales that were consistent with the GRC Phase 2 Settlement. These customer class proxy marginal costs were then applied to the TY 2009 class sales to derive class MCRR for distribution revenue allocation.

The C&I class split required deriving marginal costs for Large and Medium customers. The same distribution marginal cost methodology (and models) as proposed by SDG&E in the GRC Phase 2 proceeding was used to derive unit marginal costs. This was necessary since implicit in the distribution rates currently in effect are the SDG&E GRC Phase 2 distribution marginal costs. The Large and Medium unit marginal costs were then applied to TY 2009 distribution allocation determinants. The resulting MCRR values for the Large and Medium classes were then used to split the Commercial Industrial distribution revenue allocation into two distribution revenue requirements.

C. Commodity

Proxy marginal commodity rates were derived from the adopted class revenue requirements using the same general methodology as for distribution. The C&I class split required deriving marginal costs for Large and Medium customers. The same commodity marginal cost methodologies (and models) as proposed by SDG&E in the GRC Phase 2 proceeding for both commodity capacity and commodity energy components were used to derive unit marginal costs. This required analyzing 8760 hourly interval data for Large and Medium customers for the three years of 2004 through 2006. This analysis required constructing typical weekday and weekend day hourly profiles for each month using the three years of data for the calculating of commodity energy MCRRs for the Large and Medium classes. The capacity MCRRs for the Large and Medium classes were derived by using the Top 300 hour methodology (100 hours from each of the years 2004 through 2006) from the hourly data.

III. REVENUE ALLOCATION

A. Distribution

The MCRR values by customer class, before the C&I class split, were used in the EPMC methodology to allocate the marginal distribution revenue requirement. The large and Medium class MCRRs were then used in a second calculation to split the distribution revenue allocation of the C&I class into two parts. These revenue allocations are only for that part of the

distribution revenue requirement attributable to marginal costs. Other distribution revenue components are either directly assigned, or use other than EPMC allocation methods, and are calculated in the Rates model sponsored by witness Hansen. The results of the distribution revenue allocation are shown in column (B) of Table JSP-1. The details of the distribution allocation are shown in Table JSP-2.

B. Commodity

The MCRR values by customer class, before the C&I class split, were used in the EPMC methodology to allocate the marginal commodity revenue requirement. The large and Medium class MCRRs, for both capacity and energy, were then used in a second calculation to split the commodity revenue allocation of the C&I class into two parts. The results of the commodity revenue allocation are shown in column (K) of Table JSP-1. The details of the Large and Medium class split are shown on JSP-3.

Table JSP-3 shows a decrease to the proposed RDW Medium C&I class commodity revenue allocation from present commodity revenue allocation, and a corresponding increase to the Large C&I class proposed revenue allocation from the present revenue allocation, in order to maintain the same proposed C&I class revenue allocation in the case of no rate class split at the 500 kW demand level. These somewhat anomalous results are a result of trying to incorporate an intra-class revenue allocation split based on settled revenue requirements of all classes, and without a new marginal cost study and revised revenue allocation to all classes.

This concludes my prepared direct testimony.

IV. QUALIFICATIONS OF JAMES S. PARSONS

My name is James S Parsons. My business address is 8315 Century Park Court, San Diego, California, 92123. I am a Principal Regulatory Economics Advisor in the Electric Rates Section of the Rates and Revenues Group at San Diego Gas & Electric Company ("SDG&E"). My primary responsibilities include the development of electric cost-of-service studies, revenue allocation studies, and derivation of rate designs.

I received a Bachelor of Science degree in Engineering from The Pennsylvania State University 1966. I received a Master of Science degree in Business Administration from the San Diego State University 1972 I am a Registered Professional Engineer, Mechanical Branch, in the State of California. I have been employed by SDG&E since 1972 in various engineering, regulatory analysis, and rate design capacities.

I have testified before this Commission since 1980 in numerous costs of service, revenue allocation, and rate design proceedings.

TABLE JSP - 1

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT Rate Design Window Application (A.) 08-11-014

						Ü	Effective 9/1/2008							
					J	Class Sales &	Class Sales & Average Revenue Summary	Summary						
Line No.		(A) Determinants (2009 Forecast) (KWhr)	(B) Distribution Revenues (\$)	(C) Transmission Revenues (\$)	(D) Public Goods Revenues (\$)	(E) Nuc Decom Revenues (\$)	(F) On-Going CTC Revenues (\$)	(G) RS Revenues (\$)	(H) TRAC Revenues (\$)	(I) DWR-BC Revenues (\$)	(J) Total UDC Revenues (\$)	(K) Commodity Revenues (\$)	(L) Total Revenues (\$)	Line No.
-	Residential	7,829,000,000	576,751,946	100,454,514	26,130,691	3,598,838	16,332,066	3,990,016	(22,500,000)	32,950,602	737,708,673	736,155,899	1,473,864,572	-
7	Small Comm.	2,103,589,000	120,968,016	34,351,608	8,771,358	967,651	5,981,620	1,072,830	0	10,267,874	182,380,958	211,531,479	393,912,437	7
8	Medium Comm.	6,117,863,255	235,444,114	73,025,300	23,431,416	2,814,217	17,092,236	3,054,098	0	27,357,070	382,218,452	493,992,176	876,210,628	က
4	Large C&I	4,634,513,745	107,311,734	44,579,157	17,750,188	2,131,876	10,992,209	2,284,486	0	19,539,207	204,588,856	258,242,485	462,831,341	4
2	Agriculture	94,034,000	5,200,100	1,535,575	405,287	43,256	237,906	47,957	0	463,742	7,933,822	8,521,421	16,455,243	2
9	Lighting	111,000,000	8,546,563	903,327	(14,459)	49,954	0	54,390	0	545,068	10,084,843	7,740,045	17,824,888	9
7	System Total	20,890,000,000	1,054,222,473	254,849,481	76,474,481	9,605,792	50,636,037	10,503,777	(22,500,000)	91,123,562	1,524,915,603	1,716,183,505	3,241,099,108	7
						•	Proposed RDW							
∞	Residential	7,829,000,000	567,377,943	100,454,514	26,130,691	3,598,838	16,332,066	3,990,016	(22,500,000)	32,950,602	728,334,669	718,299,269	1,446,633,938	®
6	Small Comm.	2,103,589,000	118,836,563	34,351,608	8,771,358	967,651	5,981,620	1,072,830	0	10,267,874	180,249,504	206,488,780	386,738,284	6
10	Medium Comm.	6,117,863,255	226,978,024	73,025,300	23,431,416	2,814,217	17,092,236	3,054,098	0	27,357,070	373,752,362	498,189,458	871,941,820	9
7	Large C&I	4,634,513,745	107,584,949	44,579,157	17,750,188	2,131,876	10,992,209	2,284,486	0	19,539,207	204,862,072	253,109,511	457,971,583	7
12	Agriculture	94,034,000	5,164,049	1,535,575	405,287	43,256	237,906	47,957	0	463,742	7,897,772	8,426,108	16,323,880	12
13	Lighting	111,000,000	8,420,837	903,327	(14,459)	49,954	0	54,390	0	545,068	9,959,117	7,555,464	17,514,581	13
4	System Total	20,890,000,000	1,034,362,365	254,849,481	76,474,481	9,605,792	50,636,037	10,503,777	(22,500,000)	91,123,562	1,505,055,495	1,692,068,590	3,197,124,085	4
						Reveni	Revenue Change Summary	Ž						
15	Residential	7,829,000,000	(9,374,004)	0	0	0	0	0	0	0	(9,374,004)	(17,856,630)	(27,230,634)	15
16	Small Comm.	2,103,589,000	(2,131,453)	0	0	0	0	0	0	0	(2,131,453)	(5,042,699)	(7,174,152)	16
11	Medium Comm.	6,117,863,255	(8,466,090)	0	0	0	0	0	0	0	(8,466,090)	4,197,282	(4,268,808)	17
8	Large C&I	4,634,513,745	273,216	0	0	0	0	0	0	0	273,216	(5,132,974)	(4,859,758)	8
19	Agriculture	94,034,000	(36,051)	0	0	0	0	0	0	0	(36,051)	(95,313)	(131,364)	19
20	Lighting	111,000,000	(125,726)	0	0	0	0	0	0	0	(125,726)	(184,581)	(310,307)	70
21	System Total	20,890,000,000	(19,860,108)	0	0	0	0	0	0	0	(19,860,108)	(24,114,915)	(43,975,023)	21
						Average	Average % Change Summary	ary						
22	Residential	7,829,000,000	-1.63%	00:00	0.00%	%00.0	%00.0	0.00%	0.00%	0.00%	-1.27%	-2.43%	-1.85%	22
23	Small Comm.	2,103,589,000	-1.76%	0.00%	0.00%	%00.0	0.00%	0.00%	0.00%	0.00%	-1.17%	-2.38%	-1.82%	23
24	Medium Comm.	6,117,863,255	-3.60%	%00'0	%00.0	%00.0	%00.0	0.00%	%00'0	0.00%	-2.21%	0.85%	-0.49%	24
25	Large C&I	4,634,513,745	0.25%	%00'0	0.00%	%00.0	%00.0	%00'0	%00'0	0.00%	0.13%	-1.99%	-1.05%	52
26	Agriculture	94,034,000	%69:0-	0.00%	0.00%	0.00%	%00.0	0.00%	0.00%	0.00%	-0.45%	-1.12%	-0.80%	56
27	Lighting	111,000,000	-1.47%	0.00%	0.00%	0.00%	%00.0	0.00%	0.00%	0.00%	-1.25%	-2.38%	-1.74%	27
28	System Total	20,890,000,000	-1.88%	0.00%	%00.0	%00.0	%00.0	0.00%	%00.0	%00.0	-1.30%	-1.41%	-1.36%	28

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TABLE JSP - 2

			Distribution Revenue Allocation Summary	re Allocation Sumn	nary				
Line No		(A) Present Rates GRC Sales (\$ x 1000)	(B) GRC Phase 2 Sales (gWhr)	(C) GRC Phase 2 Rate (\$/kWhr)	(D) TY 2009 RDW Sales (gWhr)	(E) Unscaled Revnue Allocation (\$ x 1000)	(F) Proposed Revenue Allocation (\$ x 1000)	(G) EPMC Factor (Percentage)	Line No
-	Residential	471,943.18	7,673.00	0.0615070	7,829.00	481,538.27	553,599.321	55.7794%	- (
7	Small Commercial	99,960.35	2,100.92	0.0475794	2,103.59	100,087.53	115,065.391	11.5937%	v (
က	Medium Commercial				6,107.30		217,589.360	21.9238%	າ -
4	Large C&I				3,952.38		97,112.642	9.7849%	4 տ
2	Medium & Large Subtotal	269,848.90	9,916.76	0.0272114	10,059.68	273,737.80	314,702.001	31.7087%	ი დ
9	Agriculture	4,175.36	90.07	0.0463547	94.03	4,358.92	5,011.222	0.5049%	۱ ٥
7	Lighting	3,519.52	109.50	0.0321418	111.00	3,567.74	4,101.639	0.4133%	- 0
∞	System Total	849,447.31	19,890.25	0.0427067	20,197.30	863,290.25	992,479.574	100.000%	•
	Proposed TY 2009 RDW Distribution Revenue for EPMC Al	tion Revenue for EPMC	Allocation	992,479,574					
	<u>.</u>			•					

Updated Direct Testimony Tables - Parsons.xls: JSP-2

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TABLE JSP - 3

			Commodity Revenue Allocation Summary	ation Summary				
		(A) Commodity Revenue	(B) Commodity Revenue	(C) Proposed	(a)	(E)	(F)	
들용	Customer Class	at Present Rates From Rates Model (\$)	Settled Rates RDW 2009 Determinants (\$)	Commodity Revenue RDW 2009 Determinants (\$)	Proposed Change Col C - Col A (\$)	Percentage Change (Percentage)	EPMC Factor (Percentage)	F. S
-	Residential	736,155,899.00	600,087,619.69	718,299,269.50	(17,856,629.50)	-2.43%	42.45%	-
7	Small Commercial	211,531,479.00	172,506,594.16	206,488,780.14	(5,042,698.86)	-2.38%	12.20%	7
က	Medium Commercial	493,992,176.00	419,584,042.82	498,189,457.86	4,197,281.86	0.85%	29.44%	က
4	Large C&I	258,242,485.00	208,072,463.79	253,109,511.49	(5,132,973.51)	.1.99%	14.96%	4
5	Med & Lg Comm/Ind Subtot	752,234,661.00	627,656,506.61	751,298,969.35	(935,691.65)	-0.12%	44.40%	5
9	Agriculture	8,521,421.00	7,039,409.79	8,426,107.69	(95,313.31)	-1.12%	0.50%	9
7	Lighting	7,740,045.00	6,312,049.57	7,555,464.31	(184,580.69)	-2.38%	0.45%	7
∞	System Total	1,716,183,505.00	1,413,602,179.82	1,692,068,591.00	(24,114,914.00)	-1.41%	100.00%	∞
	Proposed TY 2009 Commodity Revenue for EPMC Allocation	Revenue for EPMC Alloca	ation	1,692,068,591.00				
			Medium & Large Commerci	Medium & Large Commercial Industrial Class Split Summary	ئ			
Ë		(A) Class Split MCRRS	(B) Percentage	(C) Revenue from Settled Rates	(D) Percentage	(E) Proposed Class Split		Ę
2	:	From 2004-2006 Study (\$ × 1000)	Breakdown (Percentage)	& RDW 2009 Determinants (\$)	Breakdown (Percentage)	Revenue Allocation (\$)		2
-	Medium Commercial Energy	360,144.93	56.61%	353,238,875.01	56.28%	425,273,150.46		-
ი ო	Capacity Subtotal	61,749.58 421,894.51	9.71% 66.31%	66,345,167.81 419,584,042.82	10.57% 66.85%	72,916,307.40 498,189,457.86		ო თ
4 10 0	Large C&I Energy Capacity Subtotal	180,998.64 33,348.56 214,347.20	28.45% 5.24% 33.69%	178,921,346.84 29,151,116.95 208,072,463.79	28.51% 4.64% 33.15%	213,730,238,72 39,379,272,77 253,109,511,49		4 र
7	Total	636241.7059	100.00%	627,656,506.61	100.00%	751,298,969.35		7

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