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

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

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

NOVEMBER 14, 2008

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PREPARED 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-____

| L | | | | | | | Effective 9/1/2008 | | | | | | | \lceil |
|-------------|--------------|---|--------------------------------|---|--------------------------------|--------------------------------------|---|-------------------------------|---------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------------|-------------|
| | | | | | 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 | 519,701,250 | 101,315,105 | 45,454,885 | 3,598,838 | (12,217,543) | (7,041,204) | (7,759,283) | 32,011,073 | 675,063,121 | 678,509,028 | 1,353,572,149 | - |
| 7 | Small Comm. | 2,103,589,000 | 110,397,116 | 34,583,003 | 16,361,657 | 967,651 | (2,459,531) | (1,956,338) | 0 | 9,975,104 | 167,868,663 | 194,966,622 | 362,835,285 | 7 |
| က | Medium Comm. | 6,117,863,255 | 219,023,649 | 73,698,265 | 35,055,356 | 2,814,217 | 3,602,191 | (5,293,538) | 0 | 26,577,031 | 355,477,171 | 455,308,093 | 810,785,264 | က |
| 4 | Large C&I | 4,634,513,745 | 103,827,817 | 45,088,954 | 26,555,764 | 2,131,876 | 2,315,119 | (3,890,181) | 0 | 18,982,080 | 195,011,429 | 238,019,610 | 433,031,039 | 4 |
| 2 | Agriculture | 94,034,000 | 4,741,158 | 1,545,919 | 698,673 | 43,256 | 51,719 | (87,452) | 0 | 450,519 | 7,443,792 | 7,860,985 | 15,304,777 | 2 |
| 9 | Lighting | 111,000,000 | 8,249,135 | 917,454 | 429,839 | 49,954 | 0 | (95,741) | 0 | 529,526 | 10,080,168 | 7,133,871 | 17,214,039 | 9 |
| 7 | System Total | 20,890,000,000 | 965,940,125 | 257,148,700 | 124,556,174 | 9,605,792 | (8,708,045) | (18,364,454) | (7,759,283) | 88,525,335 | 1,410,944,344 | 1,581,798,209 | 2,992,742,553 | 7 |
| | | | | | | | Proposed RDW | | | | | | | |
| ω | Residential | 7,829,000,000 | 511,317,466 | 101,315,105 | 45,454,885 | 3,598,838 | (12,217,543) | (7,041,204) | (7,759,283) | 32,011,073 | 666,679,337 | 662,061,578 | 1,328,740,915 | 80 |
| 6 | Small Comm. | 2,103,589,000 | 108,746,910 | 34,583,003 | 16,361,657 | 967,651 | (2,459,531) | (1,956,338) | 0 | 9,975,104 | 166,218,456 | 190,322,187 | 356,540,643 | 6 |
| 10 | Medium Comm. | 6,117,863,255 | 211,783,992 | 73,698,265 | 35,055,356 | 2,814,217 | 3,602,191 | (5,293,538) | 0 | 26,577,031 | 348,237,514 | 459,184,789 | 807,422,303 | 9 |
| 7 | Large C&I | 4,634,513,745 | 103,740,521 | 45,088,954 | 26,555,764 | 2,131,876 | 2,315,119 | (3,890,181) | 0 | 18,982,080 | 194,924,134 | 233,292,848 | 428,216,982 | £ |
| 12 | Agriculture | 94,034,000 | 4,705,323 | 1,545,919 | 698,673 | 43,256 | 51,719 | (87,452) | 0 | 450,519 | 7,407,957 | 7,766,404 | 15,174,361 | 12 |
| 13 | Lighting | 111,000,000 | 8,131,362 | 917,454 | 429,839 | 49,954 | 0 | (95,741) | 0 | 529,526 | 9,962,394 | 6,963,926 | 16,926,320 | 5 |
| 4 | System Total | 20,890,000,000 | 948,425,574 | 257,148,700 | 124,556,174 | 9,605,792 | (8,708,045) | (18,364,454) | (7,759,283) | 88,525,335 | 1,393,429,792 | 1,559,591,732 | 2,953,021,524 | 41 |
| | | | | | | Revent | Revenue Change Summary | 2 | | | | | | |
| 15 | Residential | 7,829,000,000 | (8,383,784) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (8,383,784) | (16,447,450) | (24,831,234) | 15 |
| 16 | Small Comm. | 2,103,589,000 | (1,650,206) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (1,650,206) | (4,644,435) | (6,294,641) | 91 (|
| 11 | Medium Comm. | 6,117,863,255 | (7,239,657) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (7,239,657) | 3,876,696 | (3,362,961) | - 11 |
| 8 | Large C&I | 4,634,513,745 | (87,295) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (87,295) | (4,726,762) | (4,814,057) | 18 |
| 19 | Agriculture | 94,034,000 | (35,836) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (35,836) | (94,581) | (130,417) | 19 |
| 20 | Lighting | 111,000,000 | (117,774) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (117,774) | (169,945) | (287,719) | 20 |
| 21 | System Total | 20,890,000,000 | (17,514,551) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (17,514,552) | (22,206,477) | (39,721,029) | 21 |
| | | | | | | Average | Average % Change Summary | ary | | | | | | |
| 22 | Residential | 7,829,000,000 | -1.61% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | -1.24% | -2.42% | -1.83% | 22 |
| 23 | Small Comm. | 2,103,589,000 | -1.49% | 0.00% | %00.0 | %00:0 | 00:00 | %00'0 | 0.00% | %00'0 | %86.0- | -2.38% | -1.73% | , 23 |
| 24 | Medium Comm. | 6,117,863,255 | -3.31% | %00'0 | %00.0 | 0.00% | %00.0 | %00'0 | 0.00% | 0.00% | -2.04% | 0.85% | -0.41% | , 24 |
| 25 | Large C&I | 4,634,513,745 | %80·0 - | %00.0 | 0.00% | 0.00% | %00.0 | %00'0 | 0.00% | 0.00% | -0.04% | -1.99% | -1.11% | , 25 |
| 26 | Agriculture | 94,034,000 | %9 2'0- | %00'0 | %00.0 | 0.00% | %00.0 | %00'0 | 0.00% | 0.00% | -0.48% | -1.20% | -0.85% | , 26 |
| 27 | Lighting | 111,000,000 | -1.43% | 0.00% | %00.0 | 0.00% | %00.0 | 0.00% | 0.00% | 0.00% | -1.17% | -2.38% | -1.67% | , 27 |
| 28 | System Total | 20,890,000,000 | -1.81% | %00.0 | %00.0 | %00.0 | %00.0 | %000 | %00.0 | %00.0 | -1.24% | -1.40% | -1.33% | 82 8 |

TABLE JSP - 2

SAN DIEGO GAS ELECTRIC COMPANY _ ELECTRIC DEPARTMENT RateDesign Window Application (A.) 08-11-____

| | | |)istribution Revent | Distribution Revenue Allocation Summary | 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 |
| ~ | Residential | 471,943.18 | 7,673.00 | 0.0615070 | 7,829.00 | 481,538.27 | 479,110.085 | 55.8295% | - 0 |
| 7 | Small Commercial | 99,960.35 | 2,100.92 | 0.0475794 | 2,103.59 | 100,087.53 | 99,582.834 | 11.6041% | 7 (|
| က | Medium Commercial | | | | 6,107.30 | | 180,402.274 | 21.0218% | ກ 🔻 |
| 4 | Large C&I | | | | 3,952.38 | | 91,184.720 | 10.6255% | 4 r |
| 2 | Medium & Large Subtotal | 269,848.90 | 9,944.90 | 0.0271344 | 10,059.68 | 272,963.43 | 271,586.994 | 31.6474% | ი " |
| 9 | Agriculture | 4,175.36 | 90.07 | 0.0463547 | 94.03 | 4,358.92 | 4,336.941 | 0.5054% | 0 1 |
| 7 | Lighting | 3,519.52 | 109.50 | 0.0321418 | 111.00 | 3,567.74 | 3,549.745 | 0.4136% | - 0 |
| œ | System Total | 849,447.31 | 19,918.39 | 0.0426464 | 20,197.30 | 862,515.89 | 858,166.600 | 100.000% | 0 |
| | | | | | | | | | |
| | Proposed TY 2009 RDW Distribution Revenue for EPMC Allocation | tion Revenue for EPMC | Allocation | 858,166,600 | | | | | |

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TABLE JSP - 3

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

Table JSP-3

| | | | Commodity Revenue Allocation Summary | ation Summary | | | | |
|--------------|--|---|--|---|--|---|--------------------------------|----------|
| | | (A) | (B) Commodity Revenue | (C) Proposed | (a) | (E) | (F) | |
| ë S | Customer Class | at Present Rates From Rates Model (\$) | Softled Rates RDW 2009 Determinants (\$) | Commodity Revenue RDW 2009 Determinants (\$) | Proposed Change Col C - Col A (\$) | Percentage Change (Percentage) | EPMC Factor (Percentage) | 를용 |
| - | Residential | 678,509,028.00 | 600,087,619.69 | 662,061,578.22 | (16,447,449.78) | -2.42% | 42.45% | - |
| 7 | Small Commercial | 194,966,622.00 | 172,506,594.16 | 190,322,186.69 | (4,644,435.31) | -2.38% | 12.20% | 7 |
| ო | Medium Commercial | 455,308,093.00 | 419,584,042.82 | 459,184,789.31 | 3,876,696.31 | 0.85% | 29.44% | က |
| 4 | Large C&I | 238,019,610.00 | 208,072,463.79 | 233,292,848.47 | (4,726,761.53) | -1.99% | 14.96% | 4 |
| 2 | Med & Lg Comm/Ind Subtot | 693,327,703.00 | 627,656,506.61 | 692,477,637.78 | (850,065.22) | -0.12% | 44.40% | 2 |
| 9 | Agriculture | 7,860,985.00 | 7,039,409.79 | 7,766,403.78 | (94,581.22) | -1.20% | 0.50% | 9 |
| 7 | Lighting | 7,133,871.00 | 6,312,049.57 | 6,963,925.54 | (169,945.46) | -2.38% | 0.45% | 7 |
| ∞ | System Total | 1,581,798,209.00 | 1,413,602,179.82 | 1,559,591,732.00 | (22,206,477.00) | -1.40% | 100.00% | ∞ |
| | Proposed TY 2009 Commodity Revenue for EPMC Allocation | ty Revenue for EPMC Alloca | ation | 1,559,591,732.00 | | | | |
| | | | Medium & Large Commerci | Medium & Large Commercial Industrial Class Split Summary | ıry | | | |
| : <u>-</u> 8 | | (A) Class Split MCRRS From 2004-2006 Study (\$ x 1000) | (B) Percentage Breakdown (Percentage) | (C) Revenue from Settled Rates & RDW 2009 Determinants (\$) | (D) Percentage Breakdown (Percentage) | (E) Proposed Class Split Revenue Allocation (\$) | | F. |
| 7 7 8 | Medium Commercial Energy Capacity Subtotal | 360,144.93 61,749.58 421,894.51 | 56.61% 9.71% 66.31% | 353,238,875.01 66,345,167.81 419,584,042.82 | 56.28% 10.57% 66.85% | 391,977,306.84 67,207,482.46 459,184,789.31 | | 7 7 8 |
| 4 5 9 | 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% | 196,996,690.89 36,296,157.59 233,292,848.47 | | 4 & 9 |
| 7 | Total | 636241.7059 | 100.00% | 627,656,506.61 | 100.00% | 692,477,637.78 | | 7 |