ALJ/BDP/bwg

Mailed

APR 1 1 1991

Decision 91-04-026 April 10, 1991

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

ORIGINAL

In the Matter of the Application of SAN DIEGO GAS & ELECTRIC COMPANY for Authority to Decrease its Rates and Charges for Electric, and to Increase its Rates and Charges for Gas and Steam Service. (U 902-M)	Application 87-12-003 (Filed December 1, 1987)

OPINION ON ELECTRIC RATE DESIGN WINDOW FILING

Summary

The Commission realigns the demand and energy charges in San Diego Gas & Electric Company's (SDG&E) rate Schedules AL-TOU and A6-TOU so that demand and energy charges better reflect costs. Corresponding adjustments are made to other time-of-use rate schedules which are predicated on the AL-TOU and A6-TOU rate design.

The adopted rate changes affect time-of-use rate schedules and are made on a revenue neutral basis without affecting the revenue allocation to other classes. Most customers in the affected classes will not experience significant bill impacts because increases in demand and customer charges are limited by a corresponding decrease in energy charges. Bill impacts greater than 5% are largely the result of the increase in the customer charge on accounts that have extremely small consumption. In such accounts the true dollar amounts are small, but represent a large percentage of the total bill. On the other hand, the accounts that show a benefit from the rate changes are, in effect, being rewarded for their high load factors or low on-peak usage.

Procedural History

In Decision (D.) 89-01-040 the Commission established a mechanism to consider rate design changes for the major electric utilities in non-general rate case test years. This new procedure establishes for SDG&E a five-day window, between November 20 and November 25, when rate design proposals may be submitted for attrition year implementation.

On November 20, 1990, Federal Executive Agencies (FEA) submitted proposed changes to SDG&E's adopted rate design, in accordance with D.89-01-040. FEA's submission proposed a modest realignment of the demand and energy charges in Schedules AL-TOU and A6-TOU. No other party submitted a rate design window filing. However, Division of Ratepayer Advocates (DRA) and SDG&E timely filed comments on FEA's proposal, expressing general agreement and suggesting minor corresponding adjustments in related schedules.

On January 14, 1991, FEA, DRA, and SDG&E met to discuss their respective positions. This meeting concluded with the parties reaching consensus on the substance of an agreement to be submitted to the Commission. During the next several days a draft Joint Recommendation was circulated among these three parties. On January 25, 1991, the final text of the Joint Recommendation was distributed to all parties.

A hearing was held in San Francisco on February 4, 1991. The Joint Recommendation was received in evidence as Exhibit 306. No party opposed the terms of the Joint Recommendation. There were no other issues raised at the hearing.

<u>Initial Positions of the Parties</u>

In its November 20, 1990 filing, FEA observed that under SDG&E's existing AL-TOU and A6-TOU rate structure revenues from demand components collect 70% of demand-related costs, while revenues from energy components collect 137% of energy-related costs. In order to move rates closer to costs on a revenue neutral basis, FEA proposed that the demand charges in Schedule AL-TOU and A6-TOU be increased by 5% and that the energy charges be correspondingly reduced. FEA further noted that under its proposal no customer would experience a large rate increase.

SDG&E's reply comments expressed general agreement with the FEA proposals. In SDG&E's view, a modest realignment of the AL-TOU and A6-TOU rate components, at this time, would be consistent with SDG&E's goal of balancing rate equity with rate stability. However, SDG&E pointed out several other rate schedules that have been designed using the relationships established in the design of the AL-TOU and A6-TOU rates. Specifically these schedules are:

Residential - D-SMF;

Commercial - AO-TOU, A06-TOU, AY-TOU, A-E2, R-TOU-3, R-TOU-4, S; and

Agricultural - PA-T-1.

SDG&E suggested that if the FEA proposal were to be adopted, then an analogous change to the structure of the above-described, related rate schedules should also be implemented. In addition, SDG&E suggested that the rates for Schedules AD, AE-1, and AE-2 be adjusted by increasing the AD demand charge by 5% and the AE-1 and AE-2 on-peak energy rates by 5%.[1]

In addition to offering the foregoing comments, SDG&E, in its reply, expressed disagreement with the cents per kilowatt-hour (kWh) methodology that FEA applied in adjusting the AL-TOU and A6-TOU energy rates. SDG&E pointed out that this methodology would distort the relationships between the on-peak, semi-peak, and off-peak rates. The time-of-use relationships inherent in these rates were established in SDG&E's last general rate case. SDG&E urged that these relationships be maintained at this time. As an alternative to the FEA methodology, SDG&E suggested that energy rates be adjusted on an equal percentage basis, a methodology approved in SDG&E's 1990 Energy Cost Adjustment Clause (ECAC)

1 The AE-1 and AE-2 on-peak energy rates function similar to a demand charge in that they recover many demand related costs.

decision (D.90-05-090). In addition, SDG&E urged that no energy rate be set below the current ECAC rate.

DRA also filed a response endorsing the FEA proposal. However, like SDG&E, DRA proposed that the equal percentage methodology be used to produce the compensating reduction in energy charges, as opposed to the FEA proposal to apply a cents per kWh metholodogy. In addition, DRA noted that the AL-TOU customer charge reflects a cost/revenue deficiency similar to that which FEA had noted with respect to the demand charge. DRA proposed that the AL-TOU customer charge be increased to reduce this cost/revenue deficiency in a fashion similar to the proposed demand charge adjustment.

On January 8, 1991, FEA filed a response to the positions of DRA and SDG&E. With only one exception FEA accepted the proposals of DRA and SDG&E. Specifically, FEA agreed that for purposes of this window filing the AL-TOU and A6-TOU energy rate reductions could appropriately be accomplished through an equal percentage change. FEA also expressed no objection to SDG&E's proposal to extend the same types of adjustments proposed for AL-TOU and A6-TOU to other related rate schedules. FEA also agreed with DRA's recommendation that certain customer charges should be increased because they are now substantially below Equal Percent Marginal Cost (EPMC) levels. However, FEA did express an objection to SDG&E's proposal to impose a floor energy rate equal to the ECAC rate. Nevertheless, FEA observed that the proposed floor would not alter the otherwise determined level of the AL-TOU and A6-TOU energy charges that would result from an equal percentage reduction in this case. Accordingly, this issue became moot.

Joint Recommendation

The proposals set forth in the Joint Recommendation can be summarized as follows:

a. Increase Schedules AL-TOU and A6-TOU non-coincident demand and on-peak demand charges by 5%.

b. Increase Schedule AD demand charge by 5%.

c. Increase Schedules AL-TOU and AD customer charges by 50%.

d. Design all changes on a revenue neutral basis, utilizing an equal percentage decrease to energy rates to compensate for the increase in demand and customer charge revenue.

e. Perform a corresponding adjustment to other rate schedules which are predicated on the AL-TOU and A6-TOU rate design. The affected schedules are as follows: D-SMF, AO-TOU, A06-TOU, AY-TOU, A-E2, R-TOU-3, R-TOU-4, S, and PA-T-1.

f. Increase the Schedule AE-1 on-peak energy charge (base rate) and contract demand charge by 5%.

g. Increase the reduction applied to interruptible service in Schedules I-1 and I-2 by 5%.

<u>Discussion</u>

We adopt the recommended changes in SDG&E's rate design. They are reasonable and consistent with Commission policy that rates should reflect true costs to the extent possible. As noted above, cost data established in D.90-05-090 (SDG&E's most recent ECAC decision) demonstrate that current revenues from AL-TOU and A6-TOU demand components collect only about 70% of demand-related costs. As a result, revenues from energy components are well in excess of energy-related costs. The proposal to effect a modest realignment of demand and energy charges by increasing the demand charge 5%, with a corresponding decrease in the energy rate, is an appropriate step in the direction of a more cost-based rate structure. The proposed 5% change can be implemented without altering the revenue allocation to any other class and without risking a significant increase to low energy users on either of these schedules.

Because a similar difference between component revenues and costs exists on Schedule AD, the parties have agreed that the same adjustment should be made to that schedule. This rationale also applies to Schedule AE-1. Schedule AE-1 is designed to reduce system load by sending a strong on-peak energy price signal applicable when the system load exceeds a given point. This on-peak energy rate (base rate) includes many demand-related costs which were developed from the AL-TOU and A6-TOU rates. Accordingly, consistent with the recommendation for AL-TOU and A6-TOU, we agree that the A-E1 on-peak energy rate (base rate) should be increased by 5%, as should Schedule A-E1's contract minimum demand rate. In order to maintain revenue neutrality, we adopt a corresponding reduction in the A-E1 semi-peak energy rate.

Schedules I-1 and I-2 offer general service interruptible rates for customers receiving service under Schedule AL-TOU or A6-TOU. In D.88-12-085 the Commission adopted a methodology for determining I-1 and I-2 credits based on avoided system coincident marginal capacity costs. The Commission adopted this approach, which originated with DRA, to maintain the relationship between I-1 and I-2 credits and AL-TOU seasonal demand charges in calculating the specific charge level. Because of this relationship we should adjust the I-1 and I-2 demand credits consistent with the changes to AL-TOU and A6-TOU rate design that we approved.

As DRA pointed out in its reply comments, FEA's data demonstrate that the customer charge revenue component of AL-TOU also recovers only a small portion of the associated customer cost. We believe that DRA's proposal that the AL-TOU customer charge be increased from $20 per customer per month to $30 per customer per month is a reasonable step in correcting this revenue/cost imbalance. A similar imbalance exists with respect to Schedule AD. Thus a 50% increase (from $10 per customer per month to $15 per customer per month) we believe is also appropriate for Schedule AD.

As with the demand charge increases, to offset the increased revenues associated with these higher customer charges we shall reduce energy rates on an equal percentage basis.

A number of other rate schedules have been designed using components and relationships established in the AL-TOU and A6-TOU rate designs. Accordingly, it is appropriate that we apply the proposed rate structure changes to these other closely related schedules. A description of these schedules, their relationship to AL-TOU and A6-TOU, and the recommended rate design changes are as follows:

a. Schedule D-SMF applies to multi-family and mobilehome accommodations that have cogeneration or small power assist facilities less than 100 kW. The schedule consists of a $20/month customer charge, an on-peak demand charge, and baseline and nonbaseline energy rates for non-LIRA and LIRA customers.

   The original rate structure and design methodology were initiated in response to Commission Resolution E-3009 and became effective in November 1986. The original design methodology has remained the same since the introduction of this schedule.

   Schedule D-SMF is designed to collect the total submetered Schedules DS and DT revenues at proposed rates excluding space and unit discounts. The on-peak demand charge is designed to be equal to the annualized Schedule AL-TOU on-peak demand charge. Thus, a change in the Schedule AL-TOU on-peak demand charge necessitates a change to the Schedule D-SMF on-peak demand charge. D-SMF rates are designated to collect Schedules DS and DT billed revenues minus the submeter discounts, minus the revenues collected by the on-peak demand charge. The D-SMF energy rates proposed in the Joint Recommendation have been reduced to reflect the increased on-peak demand charge revenue.

b. Schedules A0-TOU and A06-TOU are optional schedules to AL-TOU and A6-TOU. The Commission ordered the design of these schedules to reduce rates for good load factor customers (see D.87-01-051). These schedules are designed on a revenue neutral basis to collect Schedule AL-TOU and A6-TOU revenues by using AL-TOU/A6-TOU billing determinants and revenue requirements. The structures of these schedules are similar and are designed on the same basis. Thus, a change to Schedule AL-TOU and A6-TOU rates suggests a corresponding adjustment should be made to the A0-TOU and A06-TOU schedules. Schedules A0-TOU and A06-TOU were closed to new customers effective July 1, 1988.

c. Schedule AY-TOU is a non-seasonal version of Schedule AL-TOU. Its design is based entirely upon the Schedules AL-TOU and A6-TOU. Since AL-TOU and A6-TOU rates are used as inputs in developing the AY-TOU rates, any modification to the AL-TOU and A6-TOU rates will necessarily affect the AY-TOU rates. Schedule AY-TOU was adopted in SDG&E's last rate window decision, D.90-09-061.

d. Schedules A-E2, R-TOU-3, and R-TOU-4 were ordered by D.88-12-085. These schedules are designed so that non-coincident demand charges for secondary, primary, and transmission service levels are equal to those contained in Schedule AL-TOU. Therefore, a change in the AL-TOU non-coincident demand charge will have an identical effect on these schedules. A corresponding reduction in energy changes to offset the increase in demand revenue is also necessary.

e. Schedule S allows cogenerators to contract for standby or breakdown service. D.87-12-069 established Schedule S to be based on 80% of the non-coincident demand charge on Schedule AL-TOU. Thus, Schedule S should reflect the proposed demand charge changes in Schedule AL-TOU.

f. Schedule PA-T-1 is an optional agricultural rate created pursuant to D.85-12-108. In D.88-12-085, the PA-T-1 on-peak demand charge was developed using a weighted average of AL-TOU's summer and winter on-peak demand rates. Thus, the Schedule PA-T-1 on-peak demand charge should reflect changes in the Schedule AL-TOU and A6-TOU on-peak demand charges and a corresponding energy rate reduction to maintain revenue neutrality.

Comments on Proposed Decision

Pursuant to PU Code § 311, the Proposed Decision was published on March 8, 1991. Comments were timely filed by SDG&E. After considering the comments, we affirm the Proposed Decision. Nonsubstantive corrections were made where necessary.

Findings of Fact

1. The proposed adjustments to Schedules AL-TOU and A6-TOU adjust the demand and energy charge components of these rate schedules to better reflect actual costs.

2. Other time-of-use rate schedules, which are predicated on the AL-TOU and A6-TOU rate design, should be similarly adjusted.

3. As a result of the proposed rate changes some customers will experience increases while others will experience decreases, depending on individual usage.

4. Customer accounts that have significantly small usage will experience increases, while customer accounts with high load factors or low on-peak usage will be rewarded.

5. The proposed changes are in accordance with Commission policy that electric rates should reflect true costs to the extent possible.

Conclusions of Law

1. The rate changes set forth in Appendix A which reflect the Joint Recommendation (Exhibit 306) should be adopted.

2. To avoid multiple rate changes, we will make this rate change concurrent with the rate changes resulting from SDG&E's ECAC

proceeding in A.90-10-003. This order should be made effective on the date of signature with rates to be effective on May 1, 1991.

O R D E R

IT IS ORDERED that:

1. San Diego Gas & Electric Company shall file revised tariff schedules as set forth in the pending decision in A.90-10-003.

2. The revised tariff schedules shall be effective on May 1, 1991.

3. The revised tariff schedules shall be filed on or after the effective date of this order and at least 3 days prior to their effective date.

4. The revised tariff schedules shall comply with General Order 96-A and shall apply to service rendered on or after their effective date.

5. This proceeding remains open for consideration of other matters.

This order is effective today.

Dated April 10, 1991, at San Francisco, California.

PATRICIA M. ECKERT
President
G. MITCHELL WILK
JOHN B. OHANIAN
DANIEL Wm. FESSLER
NORMAN D. SHUMWAY
Commissioners

I CERTIFY THAT THIS DECISION WAS APPROVED BY THE ABOVE COMMISSIONERS TODAY

Neal J. Shulman

NEAL J. SHULMAN, Executive Director

pB

APPENDIX A

SAN DIEGO GAS & ELECTRIC COMPANY
ELECTRIC DEPARTMENT

SUMMARY OF RATES

APPENDIX A
TABLE 1
Sheet 1 of 1

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

RESIDENTIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE D-SMF				
Customer Charge	$/Month	20.00	20.00	0.00%
On-Peak Demand	$/KW	8.83	9.28	5.06%
Baseline Energy	$/Kwh	0.07925	0.07866	-0.74%
Non-Baseline Energy	$/Kwh	0.10903	0.10822	-0.74%
Baseline Energy L/I	$/Kwh	0.06736	0.06686	-0.74%
Non-Baseline Energy L/I	$/Kwh	0.09268	0.09199	-0.74%
Unit Discount	$/Kwh	0.110	0.110	0.00%
Space Discount	$/Kwh	0.312	0.312	0.00%

APPENDIX A
TABLE 2
Sheet 1 of 6

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE AD				
Customer Charge	$/Month	10.00	15.00	50.00%
Demand Charge	$/Kw	5.96	6.26	5.00%
Energy Charge	$/Kwh	0.06578	0.06460	-1.79%
On-peak Rate Limiter: Summer	$/Kw	0.67	0.67	0.00%
On-peak Rate Limiter: Winter	$/Kw	0.26	0.26	0.00%

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE AL-TOU (Default Times)				
Service Charge	$/Month	20.00	30.00	50.00%
On-Peak Rate Limiter: Summer	$/Kwh	0.72	0.72	0.00%
On-Peak Rate Limiter: Winter	$/Kwh	0.28	0.28	0.00%
Average Rate Limiter	$/Kwh	0.21	0.21	0.00%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
On-Peak Demand: Summer				
Secondary	$/KW	15.99	16.79	5.00%
Primary	$/KW	15.99	16.79	5.00%
Transmission	$/KW	10.06	10.56	5.00%
On-Peak Demand: Winter				
Secondary	$/KW	3.72	3.91	5.00%
Primary	$/KW	3.72	3.91	5.00%
Transmission	$/KW	1.49	1.56	5.00%
On-Peak Energy: Summer				
Secondary	$/Kwh	0.08404	0.08137	-3.18%
Primary	$/Kwh	0.07863	0.07613	-3.18%
Transmission	$/Kwh	0.07627	0.07385	-3.18%
Semi-Peak Energy: Summer				
Secondary	$/Kwh	0.05434	0.05261	-3.18%
Primary	$/Kwh	0.05176	0.05012	-3.18%
Transmission	$/Kwh	0.05021	0.04861	-3.18%
Off-Peak Energy: Summer				
Secondary	$/Kwh	0.04110	0.03979	-3.18%
Primary	$/Kwh	0.03847	0.03725	-3.18%
Transmission	$/Kwh	0.03731	0.03612	-3.18%
On-Peak Energy: Winter				
Secondary	$/Kwh	0.07536	0.07297	-3.18%
Primary	$/Kwh	0.07048	0.06824	-3.18%
Transmission	$/Kwh	0.06836	0.06619	-3.18%
Semi-Peak Energy: Winter				
Secondary	$/Kwh	0.04753	0.04602	-3.18%
Primary	$/Kwh	0.04413	0.04273	-3.18%
Transmission	$/Kwh	0.04280	0.04144	-3.18%
Off-Peak Energy: Winter				
Secondary	$/Kwh	0.03999	0.03872	-3.18%
Primary	$/Kwh	0.03639	0.03523	-3.18%
Transmission	$/Kwh	0.03529	0.03417	-3.18%

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE AL-TOU (Optional Times)				
Service Charge	$/Month	20.00	30.00	50.00%
On-Peak Rate Limiter: Summer	$/Kwh	0.72	0.72	0.00%
On-Peak Rate Limiter: Winter	$/Kwh	0.28	0.28	0.00%
Average Rate Limiter	$/Kwh	0.21	0.21	0.00%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
On-Peak Demand: Summer				
Secondary	$/KW	17.96	18.86	5.00%
Primary	$/KW	17.96	18.86	5.00%
Transmission	$/KW	11.30	11.87	5.00%
On-Peak Demand: Winter				
Secondary	$/KW	3.72	3.91	5.00%
Primary	$/KW	3.72	3.91	5.00%
Transmission	$/KW	1.49	1.56	5.00%
On-Peak Energy: Summer				
Secondary	$/Kwh	0.09439	0.09139	-3.18%
Primary	$/Kwh	0.08830	0.08549	-3.18%
Transmission	$/Kwh	0.08566	0.08294	-3.18%
Semi-Peak Energy: Summer				
Secondary	$/Kwh	0.06103	0.05909	-3.18%
Primary	$/Kwh	0.05813	0.05628	-3.18%
Transmission	$/Kwh	0.05639	0.05460	-3.18%
Off-Peak Energy: Summer				
Secondary	$/Kwh	0.04110	0.03979	-3.18%
Primary	$/Kwh	0.03847	0.03725	-3.18%
Transmission	$/Kwh	0.03731	0.03612	-3.18%
On-Peak Energy: Winter				
Secondary	$/Kwh	0.07536	0.07297	-3.18%
Primary	$/Kwh	0.07048	0.06824	-3.18%
Transmission	$/Kwh	0.06836	0.06619	-3.18%
Semi-Peak Energy: Winter				
Secondary	$/Kwh	0.04753	0.04602	-3.18%
Primary	$/Kwh	0.04413	0.04273	-3.18%
Transmission	$/Kwh	0.04280	0.04144	-3.18%
Off-Peak Energy: Winter				
Secondary	$/Kwh	0.03999	0.03872	-3.18%
Primary	$/Kwh	0.03639	0.03523	-3.18%
Transmission	$/Kwh	0.03529	0.03417	-3.18%

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE A-6 TOU (Default Times)				
Service Charge	$/Month	600.00	600.00	0.00%
On-Peak Rate Limiter: Summer	$/Kwh	0.72	0.72	0.00%
On-Peak Rate Limiter: Winter	$/Kwh	0.28	0.28	0.00%
Average Rate Limiter	$/Kwh	0.21	0.21	0.00%
Non-Coincident Demand				
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
On-Peak Demand: Summer				
Primary	$/KW	19.05	20.00	5.00%
Transmission	$/KW	12.21	12.82	5.00%
On-Peak Demand: Winter				
Primary	$/KW	4.45	4.67	5.00%
Transmission	$/KW	1.98	2.08	5.00%
On-Peak Energy: Summer				
Primary	$/Kwh	0.07863	0.07613	-3.18%
Transmission	$/Kwh	0.07627	0.07385	-3.18%
Semi-Peak Energy: Summer				
Primary	$/Kwh	0.05176	0.05012	-3.18%
Transmission	$/Kwh	0.05021	0.04861	-3.18%
Off-Peak Energy: Summer				
Primary	$/Kwh	0.03847	0.03725	-3.18%
Transmission	$/Kwh	0.03731	0.03612	-3.18%
On-Peak Energy: Winter				
Primary	$/Kwh	0.07048	0.06824	-3.18%
Transmission	$/Kwh	0.06836	0.06619	-3.18%
Semi-Peak Energy: Winter				
Primary	$/Kwh	0.04413	0.04273	-3.18%
Transmission	$/Kwh	0.04280	0.04144	-3.18%
Off-Peak Energy: Winter				
Primary	$/Kwh	0.03639	0.03523	-3.18%
Transmission	$/Kwh	0.03529	0.03417	-3.18%
SCHEDULE A-6 TOU (Optional Times)				
Service Charge	$/Month	600.00	600.00	0.00%
On-Peak Rate Limiter: Summer	$/Kwh	0.72	0.72	0.00%
On-Peak Rate Limiter: Winter	$/Kwh	0.28	0.28	0.00%
Average Rate Limiter	$/Kwh	0.21	0.21	0.00%
Non-Coincident Demand				
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
On-Peak Demand: Summer				
Primary	$/KW	21.40	22.47	5.00%
Transmission	$/KW	13.71	14.40	5.00%
On-Peak Demand: Winter				
Primary	$/KW	4.45	4.67	5.00%
Transmission	$/KW	1.98	2.08	5.00%
On-Peak Energy: Summer				
Primary	$/Kwh	0.08830	0.08549	-3.18%
Transmission	$/Kwh	0.08566	0.08294	-3.18%
Semi-Peak Energy: Summer				
Primary	$/Kwh	0.05813	0.05628	-3.18%
Transmission	$/Kwh	0.05639	0.05460	-3.18%
Off-Peak Energy: Summer				
Primary	$/Kwh	0.03847	0.03725	-3.18%
Transmission	$/Kwh	0.03731	0.03612	-3.18%
On-Peak Energy: Winter				
Primary	$/Kwh	0.07048	0.06824	-3.18%
Transmission	$/Kwh	0.06836	0.06619	-3.18%
Semi-Peak Energy: Winter				
Primary	$/Kwh	0.04413	0.04273	-3.18%
Transmission	$/Kwh	0.04280	0.04144	-3.18%
Off-Peak Energy: Winter				
Primary	$/Kwh	0.03639	0.03523	-3.18%
Transmission	$/Kwh	0.03529	0.03417	-3.18%

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE AO-TOU				
Customer Charge	$/Month	50.00	50.00	0.00%
Non-Coincident Demand	$/KW	8.03	8.43	5.00%
On-Peak Demand: Summer	$/KW	14.28	14.99	5.00%
On-Peak Demand: Winter	$/KW	3.84	4.03	5.00%
Energy: On-Peak	$/Kwh	0.04697	0.04458	-5.09%
Energy: Semi-Peak	$/Kwh	0.03929	0.03729	-5.09%
Energy: Off-Peak	$/Kwh	0.03512	0.03333	-5.09%
SCHEDULE A06-TOU				
Customer Charge	$/Month	250.00	250.00	0.00%
Non-Coincident Demand	$/KW	8.03	8.43	5.00%
On-Peak Demand: Summer	$/KW	17.02	17.87	5.00%
On-Peak Demand: Winter	$/KW	4.58	4.81	5.00%
Energy: On-Peak	$/Kwh	0.04697	0.04458	-5.09%
Energy: Semi-Peak	$/Kwh	0.03929	0.03729	-5.09%
Energy: Off-Peak	$/Kwh	0.03512	0.03333	-5.09%
SCHEDULE AY-TOU				
Service Charge	$/Month	20.00	30.00	50.00%
On-Peak Rate Limiter	$/Kwh	0.46	0.46	0.00%
Average Rate Limiter	$/Kwh	0.21	0.21	0.00%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
On-Peak Demand				
Secondary	$/KW	9.29	9.64	3.77%
Primary	$/KW	9.29	9.64	3.77%
Transmission	$/KW	5.32	5.52	3.76%
On-Peak Energy				
Secondary	$/Kwh	0.08191	0.07927	-3.22%
Primary	$/Kwh	0.07649	0.07402	-3.23%
Transmission	$/Kwh	0.07418	0.07183	-3.17%
Semi-Peak Energy				
Secondary	$/Kwh	0.05049	0.04885	-3.25%
Primary	$/Kwh	0.04734	0.04580	-3.25%
Transmission	$/Kwh	0.04640	0.04493	-3.17%
Off-Peak Energy				
Secondary	$/Kwh	0.04097	0.03967	-3.17%
Primary	$/Kwh	0.03774	0.03653	-3.21%
Transmission	$/Kwh	0.03672	0.03556	-3.16%
SCHEDULE A-E1				
Customer Charge	$/Month	600.00	600.00	0.00%
Contract Demand	$/KW	13.75	14.44	5.00%
Semi-Peak Demand	$/KW	0.50	0.50	0.00%
Energy: On-Peak	$/Kwh	8.29493	8.70795	4.98%
Energy: Semi-Peak	$/Kwh	0.05040	0.04697	-6.81%
Energy: Off-Peak	$/Kwh	0.03445	0.03445	0.00%
SCHEDULE A-E2				
Customer Charge	$/Month	600.00	600.00	0.00%
Contract Demand	$/KW	10.77	10.67	-0.93%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
Energy: On-Peak	$/Kwh	4.57713	4.53618	-0.89%
Energy: Semi-Peak	$/Kwh	0.06816	0.06732	-1.23%
Energy: Off-Peak	$/Kwh	0.03445	0.03445	0.00%

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

COMMERCIAL AND INDUSTRIAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE R-TOU-3				
Customer Charge	$/Month	600.00	600.00	0.00%
Contract Demand	$/KW	10.77	10.67	-0.93%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
Energy: Super-Peak	$/Kwh	1.28872	1.27376	-1.16%
Energy: On-Peak	$/Kwh	0.10424	0.10303	-1.16%
Energy: Semi-Peak	$/Kwh	0.04985	0.04928	-1.14%
Energy: Off-Peak	$/Kwh	0.03445	0.03445	0.00%
SCHEDULE R-TOU-4				
Customer Charge	$/Month	600.00	600.00	0.00%
Contract Demand	$/KW	10.77	10.67	-0.93%
Non-Coincident Demand				
Secondary	$/KW	3.38	3.55	5.00%
Primary	$/KW	2.69	2.82	5.00%
Transmission	$/KW	1.13	1.19	5.00%
Energy: Super-Peak	$/Kwh	0.50413	0.49828	-1.16%
Energy: On-Peak	$/Kwh	0.08331	0.08235	-1.15%
Energy: Semi-Peak	$/Kwh	0.04496	0.04440	-1.25%
Energy: Off-Peak	$/Kwh	0.03445	0.03445	0.00%
SCHEDULE S				
Contracted Demand				
Secondary	$/Kwh	2.70	2.84	5.00%
Primary	$/Kwh	2.15	2.26	5.00%
Transmission	$/Kwh	0.90	0.95	5.00%
SCHEDULE I-1				
Rate A: Utility Control	$/KW	3.27	3.43	5.00%
Rate B: Customer Control	$/KW	2.18	2.29	5.00%
Rate C				
Utility Control	$/KW	3.27	3.43	5.00%
Customer Control	$/KW	2.18	2.29	5.00%
SCHEDULE I-2				
Rate A: 1 YR Cancellation				
Guaranteed Load	$/KW	5.33	5.60	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate A: 5 YR Cancellation				
Guaranteed Load	$/KW	6.72	7.06	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate B: 1 YR Cancellation				
Guaranteed Load	$/KW	4.90	5.15	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate B: 5 YR Cancellation				
Guaranteed Load	$/KW	6.16	6.47	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate C: 1 YR Cancellation				
Guaranteed Load	$/KW	3.95	4.15	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate C: 5 YR Cancellation				
Guaranteed Load	$/KW	4.99	5.24	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate D: 1 YR Cancellation				
Guaranteed Load	$/KW	3.62	3.80	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%
Rate D: YR Cancellation				
Guaranteed Load	$/KW	4.57	4.80	5.00%
Each Interruption	$/KW	0.27	0.28	5.00%

APPENDIX A
TABLE 3
Sheet 1 of 1

SAN DIEGO GAS & ELECTRIC COMPANY - ELECTRIC DEPARTMENT

AGRICULTURAL RATES

RATE SCHEDULE	UNITS	1/1/91 RATE	ADOPTED RATE	CHANGE %
SCHEDULE PA-T-1				
Customer Charge	$/Month	20.00	30.00	50.00%
Demand: On-Peak				
Option A	$/KW	10.52	11.05	5.06%
Option B	$/KW	9.24	9.71	5.06%
Option C	$/KW	9.04	9.50	5.06%
Option D	$/KW	9.42	9.90	5.06%
Option E	$/KW	9.23	9.70	5.06%
Option F	$/KW	8.83	9.28	5.06%
Demand: Semi-Peak	$/KW	0.50	0.50	0.00%
Energy: On-Peak	$/Kwh	0.08836	0.08522	-3.55%
Energy: Semi-Peak	$/Kwh	0.06531	0.06351	-2.76%
Energy: Off-Peak	$/Kwh	0.04239	0.04193	-1.09%

(END OF APPENDIX A)