

Application of San Diego Gas & Electric Company
(U-902-E) for Adoption of an Advanced Metering
Infrastructure Deployment Scenario and Associated Cost
Recovery and Rate Design.

Application 05-03-015

Exhibit No.: _____

**CHAPTER 14
COST RECOVERY AND RATE DESIGN**

JULY 14, 2006 AMENDMENT

**Prepared Supplemental, Consolidating,
Superseding and Replacement Testimony**

of

ROBERT W. HANSEN

SAN DIEGO GAS & ELECTRIC COMPANY

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

July 14, 2006 Update

*Material changes to this testimony can be found on page 4 and in the
attachments.*

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CHAPTER 14
COST RECOVERY AND RATE DESIGN
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ROBERT W. HANSEN

SAN DIEGO GAS & ELECTRIC COMPANY

I. INTRODUCTION

The purpose of my this amended testimony is to update my March 28, 2006 testimony to include material information which impacts my (Chapter 14) testimony in which I: (1) present illustrative electric rate designs that would be enabled with AMI; (2) describe the regulatory balancing account treatment for SDG&E's proposed AMI revenue requirements, and for costs associated with SDG&E's proposed Peak Time Rebate (PTR) program for residential and small commercial customers; and (3) to provide estimates of electric and gas rate impacts for years 2007 through 2011 based on the changes to electric revenue requirements and gas transportation revenues.

Section 2 describes Critical Peak Pricing (CPP) and Time-of-Use (TOU) rate structures that could be employed with AMI. SDG&E does not propose implementation of rate structure changes in this proceeding but, rather, plans to pursue more cost-based rate designs in future rate design proceedings. No residential or small commercial customer rate alternatives are presented in this chapter since SDG&E is instead proposing a demand response program for residential and small commercial customers.

For Medium Commercial & Industrial (C&I) customers with demands up to 200 kilowatts (kW) SDG&E presents a CPP rate structure that may be utilized once AMI meters are deployed. The illustrative C&I CPP rate structure would enable more cost-based price signals and is described in Section 2. As described by SDG&E witness Dr. George in Chapter 6, the illustrative C&I rates presented in this chapter are used to support SDG&E's AMI demand response estimates.

1 Section 2 also presents an illustrative CPP rate offering for Large C&I customers
2 (with demands of 200 kW or greater) which is consistent with that presented in
3 Application 05-01-016.¹

4 Section 3 presents regulatory accounting proposals. The regulatory treatment of
5 SDG&E's proposed annual AMI revenue requirements, applicable to both gas and
6 electric, are discussed in this section. This section also describes the proposed recovery
7 method for credit costs associated with the residential and small commercial PTR
8 program that is sponsored by SDG&E witness Gaines in Chapter 5.

9 Section 4 presents estimates of gas and electric rate impacts and customer bill
10 impacts. Two versions of rate and bill impacts are presented: (1) impacts due solely to
11 the net changes in SDG&E's electric distribution and gas transportation revenue
12 requirements, and (2) impacts when other benefits are included. The annual revenue
13 requirement adjustments and benefit data used in this impact analysis are based on tables
14 sponsored by SDG&E witness Calabrese in Chapter 15.

15 This testimony consolidates, supersedes, and replaces all previous direct and
16 supplemental testimony filed by any other SDG&E witness testifying in this docket, on
17 the topics covered herein.

18 **II. ILLUSTRATIVE ELECTRIC RATE DESIGNS**

19 The following rate designs are strictly illustrative, although they are used to
20 forecast expected demand response in Volume II. They represent SDG&E's best current
21 estimate of the appropriate rate structures, however, the actual rate structure applicable to
22 this proceeding will not be implemented until the next appropriate proceeding (e.g. the
23 Rate Design Window).² or GRC Phase 2). In that proceeding and subsequent
24 proceedings, SDG&E will also evaluate and consider changes to the rate structures that
25 may be warranted based on actual participation data. In addition, while the Peak Time
26 Rebate cost recovery is discussed herein, the actual program is discussed in Mr. Gaines'
27 testimony (Chapter 5).

28

¹ SDG&E's settlement in the A.05-01-016 was rejected by the Commission on May 25, 2006 in D.06-05-038.

² SDG&E has sent a letter to the Executive Director of the Commission for leave to consolidate the Rate Design Window and the General Rate Case – Phase 2 to be filed by June 1, 2007.

1 **A. Residential and Small Commercial (demand less than 20 kW)**

2 SDG&E proposes no change to the default rate structures of residential and
3 small commercial customers as a result of AMI deployment in this proceeding.
4 Instead, as described by SDG&E witness Gaines in Chapter 5, SDG&E proposes
5 a Peak Time Rebate (PTR) program for these customer classes.

6 As described by SDG&E witness Gaines in Chapter 5, SDG&E recommends a
7 Peak Time Rebate (PTR) program for residential and small commercial customer
8 classes. To evaluate and quantify the impact of more cost-based rate designs for
9 small commercial customers, SDG&E presents an illustrative small commercial
10 time-of-use (TOU) commodity rate structure. This illustrative small commercial
11 TOU rate structure is set forth in Attachment RWH 14-1. Current Schedule A
12 (SDG&E's small commercial electric retail rate tariff) consists of seasonal non-
13 TOU commodity rates with seasonal price differentials of approximately 2.5 cents
14 per kWh.

15 The default TOU rate schedule would instead be non-seasonal, and would
16 incorporate a price differential between on-peak and off-peak periods of
17 approximately 7.0 cents per kWh. This differential results from recovering the
18 vast majority of generation capacity costs during on-peak hours. SDG&E
19 proposes that season and TOU periods be defined consistently with its current
20 definitions applicable to C&I TOU rate schedules to avoid potential customer
21 confusion. The On-Peak TOU period is defined as 11am to 6pm on weekdays
22 during the summer (excluding holidays), and 5pm to 8pm on weekdays during the
23 winter (excluding holidays).

24 **B. Medium Commercial & Industrial (with demands 20 kW to 200 kW)**

25 A CPP tariff for Medium C&I could be similar to that proposed for Large C&I
26 customers with (with demands greater than 200 kW). For Medium C&I, SDG&E
27 suggests that a CPP rate structure could be designed based on the 13 days with
28 highest system peak demand. This CPP rate design methodology is consistent
29 with the design criteria for the proposed default CPP rate for Large C&I
30 customers.

1 The illustrative rates for the Medium C&I CPP tariff also assume that the
2 current seasonal and TOU definitions applicable to Schedule AL-TOU (General
3 Service – Time Metered) would be applicable. The summer season is defined as
4 the five months of May 1 through September 30. The On-Peak TOU period is
5 defined as 11am to 6pm on weekdays during the summer (excluding holidays),
6 and 5pm to 8pm on weekdays during the winter (excluding holidays). CPP rates
7 would be applicable during the summer CPP event days. The CPP TOU hours on
8 a CPP event day are the same as the summer season On-Peak period.

9 Attachment RWH 14-2 shows current Schedule AL-TOU commodity rates
10 and illustrative CPP commodity rates for Medium C&I customers. The CPP rates
11 shown are designed to be revenue-neutral with currently-effective Schedule AL-
12 TOU commodity rates effective February 1, 2006. The CPP rates have been
13 designed to recover the generation capacity costs associated with the customer
14 class using a generation capacity cost of \$85 per kW per year. The rationale for
15 using \$85 per kW is described in the testimony of SDG&E witness Martin in
16 Chapter 7.

17 SDG&E has incorporated a Capacity Reservation Charge (CRC). The CRC
18 enables customers to reserve and pay for capacity costs on a monthly basis when
19 they have loads that cannot be curtailed during a CPP event. Customers will have
20 the option under the CPP rate to exempt a portion of their load from the CPP rate
21 by paying a monthly CRC. The magnitude of the monthly CRC charge depends
22 upon the amount of load protected. The protected load will be charged at the non-
23 CPP day rate during CPP events, any load above the protected level will be
24 charged at the CPP price.

25 **C. Large Commercial & Industrial (with demands greater than 200 kW)**

26 Illustrative Large C&I customer CPP rates are revenue-neutral with currently-
27 rates effective rates February 1, 2006 and are consistently designed to recover the
28 generation capacity costs associated with the customer class using a generation
29 capacity cost of \$85 per kW per year. To ensure overall revenue neutrality during
30 a design year with 13 CPP events, the revenue collected through the higher CPP
31 rates is used to reduce rates during summer non-CPP periods. Again, the rate

1 design incorporates a Capacity Reservation Charge (CRC) to enable customers to
2 reserve and pay for capacity costs on a monthly basis when they have loads that
3 cannot be curtailed during a CPP event.

4 Data used in the CPP rate design are consistent with SDG&E's most recent
5 Rate Design Window marginal cost of service study filed in A.05-02-019.
6 Attachment RWH 14-3 shows current commodity rates applicable to Schedule
7 AL-TOU and illustrative CPP commodity rates for Large C&I customers.

8 **III. REGULATORY BALANCING ACCOUNT TREATMENT**

9 **A. Distribution Revenues**

10 Electric Distribution rates will be adjusted annually during years 2007 through
11 2011 based on the annual net changes in Distribution revenue requirements
12 presented in the testimony of SDG&E witness Calabrese in Chapter 15.
13 Attachment RWH 14-4 also shows annual revenue requirements and adjustments
14 for "other benefits" by year. Annual revenue requirement and benefit values are
15 based on calculations sponsored by SDG&E witness Calabrese in Chapter 15.
16 SDG&E proposes that net Distribution cost/benefits associated with AMI full
17 deployment be recovered from all customer classes in which AMI will be
18 installed, and accounted for by means of a balancing account mechanism.
19 Distribution rates would never increase as a result of the AMI account balance but
20 rates are subject to downward pressure.

21 Recovery of the electric AMI revenue requirement would be implemented by
22 first allocating the annual incremental change in revenues to the customer classes.
23 SDG&E proposes that the revenue allocation to the classes be in proportion to the
24 number of meters planned to be installed by class multiplied by the net AMI cost
25 per installed meter. This interim allocation methodology would be employed
26 until SDG&E has incorporated the AMI costs in future marginal cost studies.
27 Once AMI costs are incorporated in a CPUC-approved Distribution marginal cost
28 study then SDG&E would allocate the AMI incremental costs based on an Equal
29 Percent of Marginal Cost (EPMC) methodology consistent with other distribution
30 revenue requirements.

1 AMI deployment O&M and capital-related costs and benefits should be
2 recorded monthly in a new AMI balancing account. Incremental changes in AMI
3 Distribution benefits would also be incorporated through balancing account
4 adjustments based on the number of installed meters and the dollar benefit per
5 meter. SDG&E proposes to record actual O&M and capital-related costs and
6 make annual adjustments for the variation from the Commission-approved annual
7 AMI revenue requirement. Benefits will be tied to the annual average number of
8 meters actually installed as compared to the annual average number of installed
9 meters supporting SDG&E's revenue requirement calculations.

10 If AMI meter installations progress at SDG&E's proposed schedule,
11 adjustments to the AMI balancing account would only be due to O&M and
12 capital-related cost variations. There would be no additional adjustment due to
13 AMI Distribution benefit differences.

14 If, however, the annual average of monthly installed meters exceeds the
15 proposed schedule, then SDG&E proposes that the AMI balancing account also
16 be credited by a dollar amount that is based upon the difference between the
17 annual average of installed meters and the annual average number of meters on
18 which the proposed revenue requirement is based. Attachment RWH 14-5 sets
19 forth the calculation of benefits per meter based upon the average number of
20 forecasted meters for 2007-2011. Attachment RWH 14-6 includes a scenario for
21 2008 to illustrate how the benefits calculation works.

22 As a hypothetical example, assume that the average forecasted meters for
23 2008 is 150,000 with an associated monthly benefit of \$15,000 per 10,000 meters
24 (with 10,000 representing the number of meters associated with a manually read
25 meter route). A hypothetical rate of installation is assumed such that actual
26 installs are greater than forecasted. The actual average number of meter installs is
27 assumed to be 200,000. The difference between the actual and the forecasted
28 averages is adjusted to blocks of 10,000 meters, i.e., 5 in this example, and the
29 dollar benefits per 10,000 meters are applied for a full year. The result is an
30 additional benefit of \$900,000 associated with the additional meters ($\$15,000 \times 5$
31 $\times 12$). By assuming the straight-line rate of installation in the calculation of

1 benefits it is not necessary to track each month's level of meters installed and the
2 calculation is simplified by incorporating beginning and ending year meter
3 balances for a given year. This simplifying assumption is consistent with the
4 constant rate of installation forecasted in determining the AMI revenue
5 requirement.

6 If the average number of meter installations are in-line with SDG&E's
7 proposed schedule supported in this filing, but O&M and capital-related costs are
8 actually less than the estimates presented in this application, the result would
9 again be a credit to the AMI balancing account. The resulting over-collection in
10 the year-end balance in the AMI balancing account would be credited against the
11 following year's Distribution revenue requirement.

12 On the other hand, SDG&E would not increase Distribution rates as a result of
13 the AMI balancing account being under-collected. Instead, the under-collected
14 amount would be carried over to the next year's balance and recovered only to the
15 extent that the approved forecasted revenue requirement is not exceeded in total
16 for that year.

1 **B. Commodity Revenues**

2 Illustrative CPP structures have been designed to be revenue-neutral with
3 currently-effective commodity rates, assuming no customer demand response.
4 Commodity revenue shortfalls resulting from C&I demand response would be
5 contained within the commodity rate component. Direct Access (DA) and future
6 Community Choice Aggregation (CCA) customers would be exempt from cost
7 recovery of ERRA revenue shortfalls caused by the CPP rates. Revenue over- or
8 under-collections associated with the CPP rate design, including any future CPP
9 participation credits and first-year bill protection, would flow through SDG&E's
10 ERRA balancing account in the same way as other revenues from the generation
11 portion of the standard tariffs. Generation benefits described by other SDG&E
12 witnesses will flow through SDG&E's existing rate mechanisms, e.g., the Energy
13 Resource Recovery Account (ERRA) for fuel and purchased power costs, and
14 through the Non-Fuel Generation Balancing Account (NGBA) for other
15 generation costs. CPP program costs should be recovered through the Advanced
16 Metering and Demand Response Account (AMDRA).

17 For transmission revenue accounting, SDG&E has a FERC-authorized
18 ratemaking mechanism that provides for annual true-ups and rate adjustments.
19 Thus, there is no need to include such transmission benefits in the AMI recovery
20 mechanism. Special tracking of revenue shortfalls associated with CPP is also
21 unnecessary for other rate components with balancing account treatment. These
22 components include: Distribution, Public Purpose Programs, Nuclear
23 Decommissioning, Fixed Transition Amounts, Ongoing CTCs, and DWR Bond
24 Charges.

25 A summary of AMI annual revenue requirements is shown in Attachment
26 RWH 14-4 for the period 2007-2011 based on SDG&E's AMI full deployment
27 proposal. The year 2011 is the final year in which rate impacts are estimated
28 since this testimony assumes that SDG&E will address AMI recovery of post-
29 2011 costs in a Test-Year 2012 General Rate Case (GRC) filing.

1 **C. Residential and Small Commercial Demand Response Cost Recovery**

2 SDG&E proposes that monthly credit payments associated with the new
3 residential and small commercial Peak Time Rebate (PTR) program be recorded
4 in the AM DRA and recovered in the subsequent year's Distribution revenue
5 requirement. The demand response program and credit method is described by
6 SDG&E witness Gaines in Chapter 5. The PTR program costs are proposed to be
7 recovered consistent with other SDG&E demand response program costs which
8 are in the Distribution rate component and from all customer classes. Authorized
9 PTR program costs will be allocated to customer classes consistent with
10 SDG&E's currently-authorized EPMC methodology for Distribution revenue
11 requirements.

12 **IV. CUSTOMER CLASS RATE IMPACTS**

13 **A. Rate Impact from Revenue Requirement Recovery**

14 SDG&E proposes to recover revenue requirements associated with AMI
15 implementation from its gas and electric customers through electric distribution
16 and gas transportation rates, as explained in my direct testimony. The projected
17 rate impacts that will result from recovering forecasted 2007-2011 AMI revenue
18 requirements in electric and gas rates are described below.

19 **1. Electric Rate Impact**

20 SDG&E proposes to allocate the electric Distribution revenue requirement
21 changes associated with residential Peak Time Rebate (PTR) program based
22 on currently-adopted electric Distribution allocation factors. Electric
23 Distribution revenue requirements are currently allocated on a Distribution
24 Equal Percent of Marginal Cost (EPMC) basis. SDG&E's Distribution EPMC
25 methodology was approved as part of SDG&E's Rate Design Window
26 proceeding in Decision 05-12-003. Impacts of the PTR program will depend
27 on the amount of credits provided. Rate impacts of the PTR program are not
28 included in this application.

29 AMI revenue requirements are proposed to be allocated in proportion to
30 meter installation costs per class. Electric revenue allocation percentages are
31 as follows:

Residential	63.79%
Small Commercial	30.27%
Medium and Large C&I	5.08%
Agricultural	0.87%
<u>Lighting</u>	<u>0.00%</u>
Total	100.00%

Class-average rate impacts on total rates, due to changes in Distribution revenue requirements only, are presented in Attachment RWH 14-7. The class-average rates when “other benefits” are included are shown in Attachment RWH 14-8. For illustration of total rate impacts, the other benefits are allocated in the same manner as AMI revenue requirements. Actual rate impacts of the other benefits will differ since the benefits can be associated with other unbundled rate categories, i.e., transmission and commodity revenue requirements are allocated differently than distribution revenue requirements, and the results are shown for years 2007 through 2011. By 2012, it is assumed that AMI Distribution revenue requirement impacts will be incorporated by means of a future General Rate Case proceeding. The proposed rate changes and year-to-year percentage changes, by customer class, are set forth in Attachments RWH 14-7 and RWH 14-8.

Typical monthly residential bill impacts, for each year 2007 – 2011, for a customer using 500 kWh per month are presented in Attachment RWH 14-9. The typical monthly residential bill impacts and year-to-year percentage changes for each year 2007 - 2011, when other benefits are included, are set forth in Attachment RWH 14-10.

Residential monthly bill impacts by usage level and season for customers in the inland climate zone, are presented in Attachment RWH 14-11 for year 2007. Attachment RWH 14-12 sets forth the Residential monthly bill impacts for year 2011, by usage level and season, for customers in the inland climate zone, when excluding and when including other benefits. For both 2007 and

2011, the bill impacts presented are measured from currently-rates effective rates February 1, 2006.

2. Gas Rate Impact

SDG&E proposes to allocate the gas transportation revenue requirement changes associated with AMI implementation and incremental operating costs primarily to its core customer classes. This allocation method is proposed since non-core customers currently have metering capabilities enabled with SDG&E's Automated Meter Reading (AMR) devices.

Gas revenue allocation percentages are as follows:

Residential	93.17%
Core C&I	6.82%
NGV	0.01%
Total Core	100.00%
<u>Noncore C&I</u>	<u>0%</u>
System Total	100.00%

Class average rate impacts resulting from the change in gas transportation revenue requirements are presented in Attachment RWH 14-13. Results are shown for years 2007 through 2011. By 2012, it is assumed that AMI transportation revenue requirement impacts will be incorporated by means of a future General Rate Case proceeding. The impacts of including other benefits are shown in Attachment RWH 14-14.

Typical residential bill impacts for a customer using 40 therms per month are presented in Attachment RWH 14-15. Typical customer bills are presented for years 2007 through 2011. The impacts of including other benefits are shown in Attachment RWH 14-16.

This concludes my prepared supplemental testimony.

1 | **V. QUALIFICATIONS OF ROBERT W. HANSEN**

2 | My name is Robert W. Hansen. My business address is 8330 Century Park Court,
3 | San Diego, California, 92123. I am Electric Rate Design Manager in the Regulatory
4 | Strategy Department for San Diego Gas & Electric Company (SDG&E). My primary
5 | responsibilities include the development of cost-of-service studies, determination of
6 | revenue allocation and electric rate design methods, analysis of ratemaking theories, and
7 | preparation of various regulatory filings.

8 | I received a Bachelor of Science degree in Mining Engineering from South
9 | Dakota School of Mines & Technology in 1981. I received a Master of Science degree in
10 | Policy Economics from the University of Illinois in 1987, where my areas of
11 | specialization were natural resource and environmental economics. I am a Registered
12 | Professional Engineer in the State of Indiana.

13 | From 1991 to 1998, I was employed by SDG&E as a Pricing Design Analyst and
14 | Senior Pricing Analyst. From 1998 to July 2000, I was employed by Sempra Energy as a
15 | Regulatory Policy Analyst in the Regulatory Affairs Division. From July 2000 to
16 | December 2001, I was employed by Enron Energy Services as Director – Utility Risk
17 | Management, and Director – Product Management. I have been employed in my current
18 | position since April 2002.

19 | I have testified before the FERC and the CPUC in other proceedings.

Attachment RWH 14-1
San Diego Gas & Electric Company
Illustrative Commodity Rates for Small Commercial (20 kW or less)

<u>Line #</u>	<u>Commodity Rates</u> (\$ per kWh)	<u>(A)</u> <u>Applicable to Default Schedule A¹</u>	<u>(B) TOU Scenario</u>	<u>Line #</u>
<u>1</u>	<u>Summer</u>			<u>1</u>
<u>2</u>	<u>On-Peak</u>	<u>0.08144</u>	<u>0.11792</u>	<u>2</u>
<u>3</u>	<u>Semi-Peak</u>	<u>0.08144</u>	<u>0.06796</u>	<u>3</u>
<u>4</u>	<u>Off-Peak</u>	<u>0.08144</u>	<u>0.04646</u>	<u>4</u>
<u>5</u>				
<u>6</u>	<u>Winter</u>			<u>6</u>
<u>7</u>	<u>On-Peak</u>	<u>0.05617</u>	<u>0.11792</u>	<u>7</u>
<u>8</u>	<u>Semi-Peak</u>	<u>0.05617</u>	<u>0.06796</u>	<u>8</u>
<u>9</u>	<u>Off-Peak</u>	<u>0.05617</u>	<u>0.04646</u>	<u>9</u>

Deleted: [REDACTED]

¹ Reflects rates effective 2/1/06

Attachment RWH 14-2
San Diego Gas & Electric Company
Illustrative Commodity Rates for Medium Commercial & Industrial
(with demands 20 kW to 200 kW)

<u>Line #</u>		<u>(A) Applicable to Schedule AL-TOU¹</u>	<u>(B) Cost-Based CPP Scenario²</u>	<u>Line #</u>
<u>1</u>	<u>Capacity Reservation Charge (\$ per Month)</u>		<u>7.08</u>	<u>1</u>
<u>2</u>				<u>2</u>
<u>3</u>	<u>Commodity Rates (\$ per kWh)</u>			<u>3</u>
<u>4</u>	<u>Summer</u>			<u>4</u>
<u>5</u>	<u>CPP</u>	<u>=</u>	<u>0.90991</u>	<u>5</u>
<u>6</u>	<u>On-Peak</u>	<u>0.11515</u>	<u>0.05815</u>	<u>6</u>
<u>7</u>	<u>Semi-Peak</u>	<u>0.06637</u>	<u>0.05275</u>	<u>7</u>
<u>8</u>	<u>Off-Peak</u>	<u>0.04537</u>	<u>0.04429</u>	<u>8</u>
<u>9</u>	<u>Winter</u>			<u>9</u>
<u>10</u>	<u>On-Peak</u>	<u>0.11515</u>	<u>0.05815</u>	<u>10</u>
<u>11</u>	<u>Semi-Peak</u>	<u>0.06637</u>	<u>0.05275</u>	<u>11</u>
<u>12</u>	<u>Off-Peak</u>	<u>0.04537</u>	<u>0.04429</u>	<u>12</u>

¹ Reflects rates effective 2/1/06

² CPP energy rates exclude any participation credits

Attachment RWH 14-3
San Diego Gas & Electric Company
Illustrative Commodity Rates for Large Commercial & Industrial
(with demands greater than 200 kW)

<u>Line #</u>		<u>(A)</u> <u>Applicable to</u>	<u>(B)</u> <u>Cost-Based CPP</u>	<u>Line #</u>
		<u>Schedule AL-TOU1</u>	<u>Scenario 2</u>	
<u>1</u>	<u>Capacity Reservation Charge (\$ per Month)</u>		<u>7.08</u>	<u>1</u>
<u>2</u>				<u>2</u>
<u>3</u>	<u>Commodity Rates (\$ per kWh)</u>			<u>3</u>
<u>4</u>	<u>Summer</u>			<u>4</u>
<u>5</u>	<u>CPP</u>	<u>∞</u>	<u>0.94347</u>	<u>5</u>
<u>6</u>	<u>On-Peak</u>	<u>0.11515</u>	<u>0.06137</u>	<u>6</u>
<u>7</u>	<u>Semi-Peak</u>	<u>0.06637</u>	<u>0.05352</u>	<u>7</u>
<u>8</u>	<u>Off-Peak</u>	<u>0.04537</u>	<u>0.04436</u>	<u>8</u>
<u>9</u>	<u>Winter</u>			<u>9</u>
<u>10</u>	<u>On-Peak</u>	<u>0.11515</u>	<u>0.06137</u>	<u>10</u>
<u>11</u>	<u>Semi-Peak</u>	<u>0.06637</u>	<u>0.05352</u>	<u>11</u>
<u>12</u>	<u>Off-Peak</u>	<u>0.04537</u>	<u>0.04436</u>	<u>12</u>

1 Reflects rates effective 2/1/06

2 CPP energy rates exclude any participation credits

Attachment RWH 14-4
San Diego Gas & Electric Company
Annual AMI Revenue Changes Used in Rate Impact Analyses

Electric:

<u>Year</u>	<u>Revenue Requirement (RR)</u> <u>(\$000)</u>	<u>RR plus Other Benefits</u> <u>(\$000)</u>
2007	\$6,693	\$6,693
2008	\$10,315	\$9,296
2009	\$41,659	\$18,481
2010	\$55,294	\$25,061
2011	\$55,281	\$18,988

Gas:

<u>Year</u>	<u>Revenue Requirement (RR)</u> <u>(\$000)</u>	<u>RR plus Other Benefits</u> <u>(\$000)</u>
2007	\$976	\$976
2008	\$7,764	\$7,671
2009	\$19,847	\$19,588
2010	\$24,042	\$23,607
2011	\$22,221	\$21,766

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Attachment RWH 14-5

San Diego Gas & Electric Company

Calculation of Benefit Adjustment for AMI Balancing Account

<u>Line No.</u>		<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>Line No.</u>
1							1
2	Total Electric Revenue Requirement	(\$6,692,623)	\$10,314,974	\$40,658,842	\$55,294,190	\$56,281,315	2
3	Total Electric Benefits	(\$279,597)	(\$1,944,249)	(\$8,156,986)	(\$16,205,210)	(\$20,558,987)	3
4							4
5	Total Gas Revenue Requirement	(\$976,375)	\$7,763,647	\$19,846,961	\$24,041,564	\$22,221,088	5
6	Total Gas Benefits	(\$56,478)	(\$509,547)	(\$2,475,075)	(\$4,999,087)	(\$6,214,888)	6
7							7
8	Total Electric & Gas Revenue Requirement	(\$7,668,998)	\$18,078,621	\$60,505,803	\$79,335,755	\$78,502,403	8
9	Total Electric & Gas Benefits	(\$348,074)	(\$2,456,797)	(\$10,632,061)	(\$21,204,296)	(\$26,773,875)	9
10							10
11	Per Year Forecasted EOY Installed Electric Meters					20,453	11
12	Cumulative EOY Forecasted Electric Meters	500	321,223	550,667	550,667	1,443,510	12
13	AVG. Number Electric Meters (Assumes Straight Line Rate)	500	321,723	872,390	1,423,057	10,227	13
14		500	160,862	275,334	275,334		14
15	Per Year Forecasted EOY Installed Gas Meters					14,264	15
16	Cumulative EOY Forecasted Gas Meters	500	201,188	344,894	344,894	905,740	16
17	AVG. Number Gas Meters (Assumes Straight Line Rate)	500	201,688	546,582	891,476		17
18		500	101,094	172,447	172,447	7,132	18
19	Average Number of Meters Installed						19
20	Electric	500	160,862	275,334	275,334	10,227	20
21	Gas	500	101,094	172,447	172,447	7,132	21
22							22
23	Per 10,000 Meters Benefit Formula Offset -- Annual						23
24	Formula - \$/Meter Electric	\$ 485,994	\$ 10,042	\$ 24,688	\$ 49,047	\$ 4,675,303	24
25	Formula - \$/ Meter Gas	\$ 94,129	\$ 4,200	\$ 11,961	\$ 24,158	\$ 726,174	25
26	Total	\$ 580,123	\$ 14,242	\$ 36,649	\$ 73,205	\$ 5,401,477	26

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Attachment RWH 14-6

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San Diego Gas & Electric Company

Example of AMI Benefit Adjustments for AMI Balancing Account

<u>Jan-08</u>	<u>Feb-08</u>	<u>Mar-08</u>	<u>Apr-08</u>	<u>May-08</u>	<u>Jun-08</u>	<u>Jul-08</u>	<u>Aug-08</u>	<u>Sep-08</u>	<u>Oct-08</u>	<u>Nov-08</u>	<u>Dec-08</u>	<u>Total</u>
36,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	331,223
36,769	63,537	90,306	117,074	143,843	170,612	197,380	224,149	250,917	277,686	304,454	331,223	160,862
10,000	10,724	11,911	13,699	16,317	20,126	25,708	34,008	46,587	66,092	97,099	147,730	500,000
10,000	20,724	32,635	46,334	62,651	82,777	108,485	142,493	189,080	255,172	352,270	500,000	245,000
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Attachment RWH 14-7

San Diego Gas & Electric Company

Class-Average Electric Rate Impacts

Not Including Including Excluding Other Benefits

Year-to-Year Changes

	2006	2007			2008			2009			2010			2011		
	¢/kWh	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%
Residential	15.376	15.311	0.465	-0.4%	15.407	0.000	0.6%	15.721	2.124	2.1%	15.852	0.129	0.8%	15.862	0.000	0.0%
Small Comm.	16.757	16.659	0.499	-0.6%	16.810	0.000	1.0%	16.833	0.213	3.4%	16.567	-0.215	-1.2%	16.562	0.014	0.1%
Med. & Lg. C&I	11.815	11.815	0.000	0.0%	11.924	0.000	0.9%	11.825	-0.007	-0.2%	11.945	0.007	0.1%	11.847	0.000	0.0%
Agriculture	14.294	14.294	0.000	0.0%	14.325	0.000	0.2%	14.330	0.006	0.5%	14.340	0.009	0.9%	14.352	0.012	0.1%
Lighting	14.203	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%
System Total	14.631	14.497	0.464	-0.2%	14.525	0.000	0.2%	14.909	0.074	0.6%	14.900	-0.074	-0.5%	14.834	-0.006	-0.0%

Line No.	Benefits Tracked to Balan	
1	Forecasted Elec Installed	
2	Average Number of Meter	
3	Cumulative Meters Per M	
4		
5	Scenario Installs -- Increa	
6	Average Number of Meter	
7	Cumulative Installs	
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Attachment RWH 14-8

San Diego Gas & Electric Company

Class-Average Electric Rate Impacts

Including Other Benefits

Year-to-Year Changes

	2006		2007				2008			2009			2010			2011		
	¢/kWh	¢/kWh	Change		Change		Change			Change			Change					
			¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%	¢/kWh	¢/kWh	%		
Residential	15.37	15.31	-0.06	-0.4%	15.36	0.08	0.5%	15.53	0.139	0.9%	15.59	0.058	0.4%	15.54	-0.053	-0.3%		
Small Comm.	15.75	15.65	-0.09	-0.6%	15.79	0.136	0.9%	16.02	0.233	1.5%	16.12	0.096	0.6%	16.03	-0.089	-0.6%		
Med. & Lg. C&I	11.87	11.81	-0.06	-0.5%	11.82	0.005	0.0%	11.82	0.008	0.1%	11.83	0.003	0.0%	11.82	-0.003	-0.0%		
Agriculture	14.29	14.22	-0.07	-0.5%	14.31	0.092	0.7%	14.47	0.158	1.1%	14.53	0.065	0.5%	14.47	-0.060	-0.4%		
Lighting	14.20	14.20	0.000	0.0%	14.20	0.000	0.0%	14.20	0.000	0.0%	14.20	0.000	0.0%	14.20	0.000	0.0%		
System Total	13.53	13.49	-0.04	-0.3%	13.52	0.047	0.3%	13.82	0.086	0.6%	13.85	0.033	0.2%	13.82	-0.031	-0.2%		

	2006
Residential	15.37
Small Comm.	15.75
Med. & Lg. C&I	11.81
Agriculture	14.29
Lighting	14.20
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Attachment RWH 14-9

San Diego Gas & Electric Company

Electric - Residential Typical Customer Bill Impact

Not Including Including Excluding Other Benefits

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						2009			2010			2011			
Typical	Typical	Change		Typical	Change		Typical	Change		Typical	Change		Typical	Change	
Bill	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%
70.05	69.96	-0.09	-0.1%	70.19	0.20	0.3%	70.80	0.4	0.6%	70.73	0.20	0.3%	70.81	0.01	0.0%
- Current Typical Bill based Inland Climate Zone and Schedule DR rates effective 2/1/06.															

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Typical	Typical	Typical	C
Bill	Bill	Bill	\$
70.05	69.96	-0.09	

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Attachment RWH 14-10
San Diego Gas & Electric Company
Electric - Residential Typical Customer Bill Impact
Including Other Benefits

				2009			2010			2011					
Typical	Typical	Change		Typical	Change		Typical	Change		Typical	Change				
Bill	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%			
70.05	69.96	-0.09	-0.1%	70.17	0.21	0.3%	70.30	0.12	0.2%	70.39	0.09	0.1%	70.30	-0.09	-0.1%
- Current Typical Bill based Inland Climate Zone and Schedule DR rates effective 2/1/06.															

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2006	2007	
Typical Bill	Typical Bill	CI \$
70.05	69.96	-0.09

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Attachment RW14-11

San Diego Gas & Electric Company

Residential Electric Bill Impacts – Year 2007

Schedule DR (Summer Billing Period)						
LINE NO.	ENERGY (KWH) (A)	PRESENT	PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$) (B)	BILL (\$) (C)	(\$)(D)	(%)(E)	
1	25	\$5.10	\$5.10	\$0.00	0.0%	1
2	50	6.44	6.44	0.00	0.0%	2
3	75	9.67	9.67	0.00	0.0%	3
4	100	12.89	12.89	0.00	0.0%	4
5	150	19.33	19.33	0.00	0.0%	5
6	200	25.78	25.78	0.00	0.0%	6
7	250	32.22	32.22	0.00	0.0%	7
8	300	38.67	38.67	0.00	0.0%	8
9	350	45.11	45.11	0.00	0.0%	9
10	400	52.38	52.38	0.00	0.0%	10
11	450	59.84	59.84	0.00	0.0%	11
12	500	69.63	69.57	-0.06	-0.1%	12
13	600	91.64	91.38	-0.26	-0.3%	13
14	700	113.65	113.49	-0.16	-0.1%	14
15	800	136.40	135.75	-0.65	-0.5%	15
16	900	159.31	158.47	-0.84	-0.5%	16
17	1000	182.23	181.16	-1.07	-0.6%	17
18	1500	303.49	302.148	(2.02)	-0.7%	18
19	2000	425.98	422.98	(2.990)	-0.7%	19
20	3000	670.95	666.00	(4.94)	-0.7%	20

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Schedule DR (Winter Billing Period)						
LINE NO.	ENERGY (KWH) (A)	2006 PRESENT	2007 PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$) (B)	BILL (\$) (C)	(\$)(D)	(%)(E)	
25	25	5.10	5.10	0.00	0.0%	25
26	50	6.44	6.44	0.00	0.0%	26
27	75	9.67	9.67	0.00	0.0%	27
28	100	12.89	12.89	0.00	0.0%	28
29	150	19.33	19.33	0.00	0.0%	29
30	200	25.78	25.78	0.00	0.0%	30
31	250	32.22	32.22	0.00	0.0%	31
32	300	38.67	38.67	0.00	0.0%	32
33	350	45.13	45.13	0.00	0.0%	33
34	400	52.58	52.58	0.00	0.0%	34
35	450	60.04	60.04	0.00	0.0%	35
36	500	70.05	69.95	-0.09	-0.1%	36
37	600	90.52	90.24	-0.28	-0.3%	37
38	700	111.01	110.53	-0.48	-0.4%	38
39	800	132.36	131.68	-0.68	-0.5%	39
40	900	153.71	152.84	-0.87	-0.6%	40
41	1000	175.06	174.00	-1.06	-0.6%	41
42	1500	290.01	287.97	(2.04)	-0.7%	42
43	2000	405.81	402.80	(3.02)	-0.7%	43
44	3000	637.41	632.44	(4.97)	-0.8%	44

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Attachment RWH 14-12

(Sheet 1 of 2)

Residential Electric Bill Impacts – Year 2011

Excluding Other Benefits

Schedule DR (Summer Billing Period)						
LINE NO.	ENERGY (KWH) (A)	PRESENT	PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$ (B))	BILL (\$ (C))	(\$ (D))	(%) (E)	
1	25	\$5.10	\$5.10	\$0.00	0.0%	1
2	50	6.44	6.44	0.00	0.0%	2
3	75	9.67	9.67	0.00	0.0%	3
4	100	12.89	12.89	0.00	0.0%	4
5	150	19.33	19.33	0.00	0.0%	5
6	200	25.78	25.78	0.00	0.0%	6
7	250	32.22	32.22	0.00	0.0%	7
8	300	38.67	38.67	0.00	0.0%	8
9	350	45.11	45.11	0.00	0.0%	9
10	400	52.38	52.38	0.00	0.0%	10
11	450	59.84	59.84	0.00	0.0%	11
12	500	69.63	70.17	0.54	0.8%	12
13	600	91.64	93.62	2.18	2.4%	13
14	700	113.65	117.48	3.82	3.4%	14
15	800	136.40	141.80	5.40	4.0%	15
16	900	159.31	166.42	7.11	4.5%	16
17	1000	182.23	190.92	8.76	4.8%	17
18	1500	303.49	320.42	16.95	5.6%	18
19	2000	425.98	451.14	25.16	5.9%	19
20	3000	670.95	722.62	51.67	7.7%	20

Schedule DR (Winter Billing Period)						
LINE NO.	ENERGY (KWH) (A)	2006 PRESENT	2011 PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$ (B))	BILL (\$ (C))	(\$ (D))	(%) (E)	
23						23
24						24
25						25
26						26
27						27
28						28
29						29
30						30
31	25	5.10	5.10	0.00	0.0%	31
32	50	6.44	6.44	0.00	0.0%	32
33	75	9.67	9.67	0.00	0.0%	33
34	100	12.89	12.89	0.00	0.0%	34
35	150	19.33	19.33	0.00	0.0%	35
36	200	25.78	25.78	0.00	0.0%	36
37	250	32.22	32.22	0.00	0.0%	37
38	300	38.67	38.67	0.00	0.0%	38
39	350	45.13	45.13	0.00	0.0%	39
40	400	52.58	52.58	0.00	0.0%	40
41	450	60.04	60.04	0.00	0.0%	41
42	500	70.05	70.81	0.75	1.1%	42
43	600	90.52	92.02	1.49	2.6%	43
44	700	111.01	115.02	4.04	3.6%	44
45	800	132.36	138.02	5.68	4.3%	45
46	900	153.71	161.02	7.32	4.8%	46
47	1000	175.06	184.02	8.98	5.1%	47
48	1500	290.01	307.12	17.11	5.9%	48
49	2000	405.81	431.12	25.31	6.2%	49
50	3000	637.41	679.22	41.81	6.6%	50

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Attachment RWH 14-12

(Sheet 2 of 2)

Residential Electric Bill Impacts – Year 2011
Including Other Benefits

Schedule DR (Summer Billing Period)

LINE NO.	ENERGY (KWH) (A)	PRESENT	PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$)(B)	BILL (\$)(C)	(\$)(D)	(%)(E)	
1	25	\$5.10	\$5.10	\$0.00	0.0%	1
2	50	6.44	6.44	0.00	0.0%	2
3	75	9.67	9.67	0.00	0.0%	3
4	100	12.89	12.89	0.00	0.0%	4
5	150	19.33	19.33	0.00	0.0%	5
6	200	25.78	25.78	0.00	0.0%	6
7	250	32.22	32.22	0.00	0.0%	7
8	300	38.67	38.67	0.00	0.0%	8
9	350	45.11	45.11	0.00	0.0%	9
10	400	52.38	52.38	0.00	0.0%	10
11	450	59.84	59.84	0.00	0.0%	11
12	500	69.63	69.82	0.19	0.3%	12
13	600	91.64	92.39	0.75	0.8%	13
14	700	113.65	114.94	1.29	1.1%	14
15	800	136.40	138.24	1.84	1.4%	15
16	900	159.31	161.71	2.40	1.5%	16
17	1000	182.23	185.18	2.95	1.6%	17
18	1500	303.49	309.21	5.72	1.9%	18
19	2000	425.98	434.46	8.49	2.0%	19
20	3000	670.95	684.97	14.03	2.1%	20

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Schedule DR (Winter Billing Period)

LINE NO.	ENERGY (KWH) (A)	2006 PRESENT	2011 PROPOSED	CHANGE	CHANGE	LINE NO.
		BILL (\$)(B)	BILL (\$)(C)	(\$)(D)	(%)(E)	
25	25	5.10	5.10	0.00	0.0%	25
26	50	6.44	6.44	0.00	0.0%	26
27	75	9.67	9.67	0.00	0.0%	27
28	100	12.89	12.89	0.00	0.0%	28
29	150	19.33	19.33	0.00	0.0%	29
30	200	25.78	25.78	0.00	0.0%	30
31	250	32.22	32.22	0.00	0.0%	31
32	300	38.67	38.67	0.00	0.0%	32
33	350	45.13	45.13	0.00	0.0%	33
34	400	52.58	52.58	0.00	0.0%	34
35	450	60.04	60.04	0.00	0.0%	35
36	500	70.05	70.36	0.31	0.4%	36
37	600	90.52	91.33	0.81	0.9%	37
38	700	111.01	112.37	1.36	1.2%	38
39	800	132.36	134.25	1.89	1.4%	39
40	900	153.71	156.18	2.47	1.6%	40
41	1000	175.06	178.09	3.03	1.7%	41
42	1500	290.01	295.81	5.79	2.0%	42
43	2000	405.81	414.33	8.52	2.1%	43

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50	3000	637.41	65.15%	14.1%	2.2%	50
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Attachment RWH 14-13
 San Diego Gas & Electric Company
 Gas Transportation Rate Impacts
Not Including Other Benefits 7

	2006	2007			2008			2009			2010
	¢/thm	¢/th m	Change		¢/th m	Change		¢/th m	Change		
			¢/th m	%		¢/th m	%		¢/th m	%	
1 Residential	54.863	54.572	-0.29	-0.5%	57.134	2.56	4.7%	60.670	3.54	6.2%	61.393
2 Core C&I	90.677	90.928	0.25	0.3%	91.494	0.47	1.5%	91.738	0.24	0.3%	91.738
3 NGV	90.154	90.154	0.00	0.0%	90.166	0.02	0.0%	90.188	0.02	0.0%	90.188
4 Total Core	48.346	48.133	-0.21	-0.4%	50.071	1.94	4.0%	52.768	2.69	5.3%	53.000
5 Noncore C&I	11.581	11.581	0.00	0.0%	11.581	0.00	0.0%	11.581	0.00	0.0%	11.581
6 System Total	19.058	19.906	0.848	4.4%	19.606	-0.300	-1.5%	20.402	0.796	4.0%	20.402

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Not Including Excluding Other Benefits7

Attachment RWH 14-14
San Diego Gas & Electric Company
Gas Transportation Rate Impacts
Including Other Benefits

		2006		2007		2008		2009		2010		2011					
		c/thm	c/th	Change		c/th	c/th	%	c/th	c/th	%	c/th	c/th	%			
				m	m										m	m	
1	Residential	54.883	54.577	-0.26	-0.5%	57.107	2.53	4.6%	60.695	3.49	6.1%	61.774	1.18	1.9%	61.233	-0.54	-0.9%
2	Core C&I	80.677	80.625	-0.05	-0.2%	81.090	0.47	1.5%	81.731	0.64	2.1%	81.948	0.22	0.7%	81.849	-0.10	-0.3%
3	NGV	90.164	90.149	0.00	0.0%	90.166	0.02	0.0%	90.188	0.02	0.0%	90.198	0.01	0.0%	90.198	0.00	0.0%
4	Total Core	85.325	85.131	-0.22	-0.4%	89.265	3.93	4.6%	92.210	2.95	3.3%	93.608	1.40	1.7%	93.168	-0.44	-0.5%
5	Noncore C&I	11.581	11.581	0.00	0.0%	11.581	0.00	0.0%	11.581	0.00	0.0%	11.581	0.00	0.0%	11.581	0.00	0.0%
6	System Total	19.055	18.988	-0.063	-0.4%	19.500	0.515	2.7%	20.145	0.645	3.3%	20.730	0.585	2.9%	20.600	-0.130	-0.6%

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Attachment RWH 14-15
 San Diego Gas & Electric Company
 Gas - Residential Typical Customer Bill Impacts
Not IncludingIncludingExcluding Other Benefits

2006		2007		2008			2009			2010			2011		
Typical	Typical	Change		Typical	Change		Typical	Change		Typical	Change		Typical	Change	
Bill	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%
\$ 55.06	\$54.96	\$0.11	0.2%	\$55.94	0.99	1.8%	\$57.30	1.36	2.4%	\$57.28	0.47	0.8%	\$57.57	\$0.29	0.4%

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Attachment RWH 14-16
 San Diego Gas & Electric Company
 Gas - Residential Typical Customer Bill Impacts
 Including Other Benefits

2006		2007			2008			2009			2010			2011		
Typical	Typical	Change		Typical	Change		Typical	Change		Typical	Change		Typical	Change		
Bill	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%	Bill	\$	%	
\$ 55.06	\$54.95	-0.1	-0.2%	\$55.93	0.98	1.8%	\$57.27	1.34	2.4%	\$57.73	0.45	0.8%	\$57.52	-0.21	-0.4%	

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Line No.	Benefits Tracked to Balancing Account	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Total
1	Forecasted Elec Installed Mtrs Per Month: Straight-Line Rate	36,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	26,769	331,223
2	Average Number of Meters (EOY - BOY)/2													160,862
3	Cumulative Meters Per Month	36,769	63,537	90,306	117,074	143,843	170,612	197,380	224,149	250,917	277,686	304,454	331,223	
4														
5	Scenario Installs -- Increasing Rate & Total > Forecasted:	10,000	10,724	11,911	13,699	16,317	20,126	25,708	34,008	46,587	66,092	97,099	147,730	500,000
6	Average Number of Meters (EOY - BOY)/2													245,000
7	Cumulative Installs	10,000	20,724	32,635	46,334	62,651	82,777	108,485	142,493	189,080	255,172	352,270	500,000	
8	Average Installs Less Forecasted Average (per 10,000)													8
9	\$ per 10,000 meter benefits monthly													\$10,072
10	Balancing Account Adjustment - \$ Benefits													\$966,918

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Residential	15.376	15.317	-0.059	-0.4%	15.407	0.090	0.6%	15.731	0.324	2.1%	15.859	0.128	0.8%	15.868	0.009	0.1%								
Small Comm.	15.757	15.659	-0.098	-0.6%	15.810	0.151	1.0%	16.353	0.543	3.4%	16.567	0.215	1.3%	16.582	0.014	0.1%								
Med. & Lg. C&I	11.819	11.816	-0.003	0.0%	11.821	0.005	0.0%	11.839	0.018	0.2%	11.846	0.007	0.1%	11.847	0.000	0.0%								
Agriculture	14.290	14.223	-0.067	-0.5%	14.326	0.103	0.7%	14.694	0.368	2.6%	14.840	0.146	1.0%	14.850	0.010	0.1%								
Lighting	14.203	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%	14.203	0.000	0.0%								
System Total	13.531	13.497	-0.034	-0.2%	13.549	0.052	0.4%	13.735	0.186	1.4%	13.809	0.074	0.5%	13.814	0.005	0.0%								

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