

## PUBLIC UTILITIES COMMISSION

SAN FRANCISCO, CA 94102-3298



November 4, 2005

NOV 08 2005

Advice Letter 1850-E

## REVENUE &amp; TARIFFS DEPT.

Akbar Jazayeri  
Director of Revenue and Tariffs  
Southern California Edison Company  
P O Box 800  
Rosemead, CA 91770

Reference: Cost recovery proposal for installation of real time energy meters and revisions to tariff schedules necessary to extend time of use pricing to all customers with demands of 200kW and greater

Dear Mr. Jazayeri:

Advice Letter 1850-E is effective December 22, 2004. A copy of the advice is included herewith for your records.

Sincerely,

A handwritten signature in black ink, appearing to read "Sean H. Gallagher".

Sean H. Gallagher, Director  
Energy Division

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December 22, 2004

**ADVICE 1850-E**  
**(U 338-E)**

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA  
ENERGY DIVISION

**SUBJECT:** Southern California Edison Company's Cost Recovery Proposal for Installation of Real Time Energy Meters and Revisions to Tariff Schedules Necessary to Extend Time of Use Pricing to All Customers with Demands of 200 kW and Greater

**PURPOSE**

In accordance with the California Public Utilities Commission's (Commission) Assigned Commissioner and Administrative Law Judge's Ruling Directing the Filing of Rate Design Proposals for Large Customers issued on December 8, 2004 (Ruling), Southern California Edison Company (SCE) hereby submits for the Commission's approval SCE's cost recovery proposal regarding the installation of Real Time Energy Meters (RTEM) for customers with demands of 200kW or greater who do not already have interval meters. SCE also submits for filing certain changes to its tariff schedules GS-2, PA-1, and PA-2 to require that all customers with demands greater than 200 kW who have an RTEM or other type of interval meter take service on a Time-of-Use (TOU) rate schedule, regardless of the funding source of the meter. This requirement will be in effect until a new default rate is approved in accordance with the Ruling. The revised tariff sheets are listed on Attachment A and are attached hereto.

**BACKGROUND**

In April 2001, Assembly Bill 1X-29 (AB1X-29) allocated funds for the installation of RTEMs for all customers with peak electric demands exceeding 200 kW. Decision (D.) 01-08-021 implemented AB1X-29 and required all customers with peak demands in excess of 200 kW to receive an AB1X-29-funded RTEM or other types of interval meters. A subsequent Decision, D.01-09-062, also required that customers who receive these meters take service on a TOU rate schedule.

To meet the AB1X-29 and Commission mandate to install RTEM for all accounts with demands over 200 kW, SCE estimated that it would exceed the AB1X-29 dollar allocation. Therefore, on May 25, 2001, SCE filed Advice 1549-E requesting the Commission's approval to establish the

RTEM Memorandum Account. On June 28, 2001, the Commission approved Advice 1549-E in Resolution E-3746. As a result of D.04-07-022 issued in SCE's 2003 GRC, the RTEM memorandum account was eliminated.<sup>1</sup>

SCE's tariffs, however, currently require only those customers who receive an AB1X-29-funded meter to take service on a TOU rate schedule. The tariffs do not require customers who receive a ratepayer-funded RTEM or another type of interval meter, installed when SCE exceeded its AB1X-29 allotted funding, to take service on a TOU rate schedule.

On September 6, 2002, SCE filed Advice 1649-E to require all customers with peak demands exceeding 200 kW to have a real-time or interval meter installed and to take service on a TOU rate schedule. On October 16, 2003, the Commission issued Resolution E-3835, which denied SCE's request. The resolution confirmed that TOU pricing is mandatory for customers who received RTEM funded by the CEC in accordance with ABX1-29; however, it stated that there is no policy that makes this mandatory for all customers with demands of 200 kW or greater. The Resolution also stated that the Commission Vision Statement promotes TOU rates for all customers with demands of 200 kW or greater, but that no such policy has yet been adopted by the Commission. The Resolution ordered SCE to seek to resolve its proposed tariff language in R.02-06-001. In addition, SCE was ordered to suspend the installation of RTEM until the Commission resolves the issue in R.02-06-001.

On December 8, 2004, the Commission issued the Ruling ordering that "to the extent that any new or existing customers with demand of 200kW or greater do not currently have interval meters installed, the utilities shall move immediately to install such meters, place those customers on time-of-use rates (to be replaced by the new default tariff upon adoption), and propose cost recovery mechanisms for the costs of any new interval meters that need to be installed."

In accordance with the Ruling, SCE intends to immediately begin installation of RTEM or other interval meters on customers with demands of 200 kW or greater who do not already have such metering.<sup>2</sup> To assist these customers in managing their energy usage effectively, SCE proposes to provide these customers with access to SCE's Energy Manager program.

In addition, pursuant to the Ruling and consistent with SCE's Demand Response Program Proposals for 2005-2008 submitted on October 15, 2004, SCE proposes to revise certain of its tariffs by removing references to state-funded meters and clarify that all customers with monthly maximum demands of 200 kW or greater should have an RTEM or other type of interval meter installed and be required to take service on a TOU rate schedule. Therefore, regardless of the source of funding for a customer's meter, similarly situated customers will be required to take service on one of SCE's TOU rate schedules.

Customers who are expected to reach or who have reached 200 kW of demand or greater in any three months during the preceding 12 months and are served under schedule GS-2 shall be required to be served under the TOU pricing option of that schedule or choose another applicable TOU rate schedule. Customers served under Schedule PA-1 and Schedule PA-2 who are

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<sup>1</sup> See Advice Letter 1808-E.

<sup>2</sup> Approximately 200 Direct Access accounts for which SCE is not the Meter Service Provider (MSP) or the Meter Data Management Agent will not receive RTEM or interval meters from SCE.

expected to reach or have reached 200 kW of demand or greater in any three months during the preceding 12 months shall no longer be eligible for service under these rate schedules and shall be transferred to the applicable TOU rate schedule upon installation of RTEM or other types of interval meter. However, a customer placed on a TOU rate schedule as a result of exceeding the 200 kW threshold who makes a permanent change in operating conditions after installation of the RTEM or other type of interval meter that will reduce the customer's demand to less than 200 kW, or has reduced the customer's demand to less than 200 kW for 12 consecutive months, may transfer to an applicable non-TOU rate schedule.

### **COST ESTIMATE FOR RTEM INSTALLATIONS<sup>3</sup>**

In this Advice Filing, SCE requests approval of a cost recovery proposal for on-going Operations and Maintenance (O&M) expenses associated with the new meter installations in 2005. SCE estimates that the number of accounts that will be eligible for RTEM through 2005 will be approximately 2,000.<sup>4</sup> SCE has included this investment for RTEM in its 2006 GRC.<sup>5</sup> In addition, SCE has included all of the on-going O&M for RTEM from 2006 forward in the 2006 GRC.<sup>6</sup> Therefore, estimates in this filing reflect only the on-going O&M costs related to the meters SCE expects to install in 2005 once the Commission approves this request and the meters SCE installed in 2003 above the 12,000 state funded meters. SCE estimates the total 2005 O&M cost to support these RTEMs and the RTEMs installed in 2003 over the 12,000 state funded meters at \$354,000. The projected 2005 RTEM O&M costs are summarized in Table 1.

*Table 1*  
*RTEM Cost Estimate for 2005*

Item	O&M
<b>Maintenance</b>	<b>\$10,000</b>
<b>Communications</b>	<b>\$240,000</b>
<b>Program Management</b>	<b>\$104,000</b>
<b>Total</b>	<b>\$354,000</b>

The on-going annual O&M costs relate to on-going meter maintenance, communications and program management. The communications expense consists of paging, phone line and radio communications costs incurred to communicate between the RTEM and SCE's billing system. Program management costs include informational and outreach communications to enrolled customers, and the additional labor required to establish new accounts, support enrolled accounts, and managing the metering equipment and installation process.

### **COST RECOVERY AND RATEMAKING PROPOSAL**

On October 15, 2004, SCE submitted its Demand Response Program Proposals for 2005-2008. In that filing, SCE set forth its ratemaking proposal for the recovery of its Demand Response Programs' costs, including recovery of the RTEM incremental costs discussed above. If that

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<sup>3</sup> See SCE's Demand Response Program Proposals for 2005-2008 filed in R.02-06-001 on October 15, 2004, pp. 16-17.

<sup>4</sup> See SCE's Reply Comments on Demand Response Program Proposals for 2005-2008 filed November 16, 2005, p. 4.

<sup>5</sup> See SCE-4, Volume 2, Chapter 5.

<sup>6</sup> See SCE-4, Volume 2 Chapter 3 and SCE-3 Volume 2.

ratemaking proposal is approved, SCE will recover its incremental RTEM program costs through the operation of a new Demand Response Program Balancing Account (DRPBA).

Given the fact that there will not be a Commission decision issued on the October 15<sup>th</sup> proposal by January 1, 2005, and as discussed above, SCE will immediately begin to install these interval meters, SCE requests that until such time as the Commission issues a decision on SCE's October 15<sup>th</sup> proposal, incremental O&M costs associated with the RTEM program be recovered through its existing distribution subaccount of the Base Revenue Requirement Balancing Account (BRRBA). As such, SCE is modifying its Preliminary Statement, Part YY, BRRBA, to set forth recovery of the incremental RTEM costs through the operation of the BRRBA to be in effect until the Commission has adopted the appropriate ratemaking for the cost of the programs set forth in SCE's October 15, 2004 filing.

### **EFFECTIVE DATE**

In light of the Ruling ordering SCE to begin its installation activities immediately, SCE respectfully requests that the Commission expedite the protest period for good cause shown. In addition, because of the immediate need to begin incurring costs associated with these new meter installations and to record costs associated with the meter installations in the interim before SCE's October 15<sup>th</sup> ratemaking proposal is approved, SCE requests that this advice filing become effective as of the date of this filing.

### **NOTICE**

In consideration of the need to begin installation efforts as soon as possible, SCE respectfully requests expedited treatment of this advice filing and a limitation of the protest period, as noted above, such that the notice period for this filing be shortened from twenty days to **ten (10) calendar days** after the date of this filing, pursuant to General Order 96-A, Section IV-B Effective Date and Section XV-Exceptions. SCE requests that it have five (5) calendar days to reply to any protest. Anyone wishing to protest this advice filing may do so by letter via U.S. Mail, facsimile, or electronically, any of which must be received by the Energy Division and SCE no later than **ten (10) calendar days** after the date of this advice filing. Protests should be mailed to:

IMC Program Manager  
c/o Jerry Royer  
Energy Division  
California Public Utilities Commission  
505 Van Ness Avenue, Room 4002  
San Francisco, California 94102  
Facsimile: (415) 703-2200  
E-mail: [jjr@cpuc.ca.gov](mailto:jjr@cpuc.ca.gov)

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

In addition, protests and all other correspondence regarding this advice letter should also be sent by letter and transmitted via facsimile or electronically to the attention of:

Akbar Jazayeri  
Director of Revenue and Tariffs  
c/o Melinda Martinez  
Southern California Edison Company  
2244 Walnut Grove Avenue, Quad 3D  
Rosemead, California 91770  
Facsimile: (626) 302-4829  
E-mail: [melinda.martinez@sce.com](mailto:melinda.martinez@sce.com)

Bruce Foster  
Vice President of Regulatory Operations  
c/o Karyn Gansecki  
Southern California Edison Company  
601 Van Ness Avenue, Suite 2040  
San Francisco, California 94102  
Facsimile: (415) 673-1116  
E-mail: [karyn.gansecki@sce.com](mailto:karyn.gansecki@sce.com)

There are no restrictions on who may file a protest, but the protest shall set forth specifically the grounds upon which it is based and shall be submitted expeditiously.

In accordance with Section III, Paragraph G, of General Order No. 96-A, SCE is furnishing copies of this advice filing to the interested parties shown on the attached service list and R.02-06-001. Address change requests to the attached GO 96-A Service List should be directed to (626) 302-4039 or by electronic mail to [AdviceTariffManager@sce.com](mailto:AdviceTariffManager@sce.com). For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at [Process\\_Office@cpuc.ca.gov](mailto:Process_Office@cpuc.ca.gov).

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by filing and keeping the advice filing open for public inspection at SCE's corporate headquarters. To view other SCE advice letters filed with the Commission, log on to SCE's web site at <http://www.sce.com/adviceletters>.

For questions, please contact Chris Dominski at (626) 302-1398 or by electronic mail at [chris.dominski@sce.com](mailto:chris.dominski@sce.com).

**Southern California Edison Company**

Akbar Jazayeri

AJ:jrh:mm  
Enclosures

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 37305-E	Preliminary Statement Part YY	Original 36614-E
Revised 37306-E*	Schedule GS-2	Revised 36645-E
Revised 37307-E	Schedule GS-2	Revised 34789-E
Revised 37308-E	Schedule GS-2	Revised 34790-E
Revised 37309-E	Schedule GS-2	Revised 34791-E
Revised 37310-E	Schedule GS-2	Revised 36925-E
Revised 37311-E	Schedule GS-2	Revised 34793-E**
Revised 37312-E	Schedule GS-2	Revised 34794-E*
Revised 37313-E	Schedule GS-2	Revised 33796-E*
Revised 37314-E	Schedule GS-2	Revised 33797-E*
Revised 37315-E	Schedule GS-2	Revised 33798-E*
Revised 37316-E*	Schedule PA-1	Revised 37815-E*
Revised 37317-E**	Schedule PA-2	Revised 36706-E
Revised 37318-E	Table of Contents	Revised 36956-E
Revised 37319-E	Table of Contents	Revised 36943-E
Revised 37320-E	Table of Contents	Revised 33933-E*
Revised 37321-E	Table of Contents	Revised 33934-E*

PRELIMINARY STATEMENT

Sheet 5

(Continued)

YY. Base Revenue Requirement Balancing Account (BRRBA) (Continued)

3. Operation of the BRRBA:

The BRRBA consists of the Distribution Sub-account and the Generation Sub-account. Entries to the BRRBA shall be made monthly as follows:

- a. Recorded monthly activity in the Distribution Sub-account;
- b. Plus: recorded monthly activity in the Generation Sub-account;
- c. Equals: recorded monthly activity in the BRRBA.

Interest Expense shall accrue monthly to the BRRBA by applying the Interest Rate to the average of the beginning-of-month and end-of-month balances in the BRRBA.

4. Distribution Sub-account:

The purpose of the Distribution Sub-account of the BRRBA is to record the monthly difference between: 1) the ADBRR; and 2) recorded Distribution Revenue.

Entries to the Distribution Sub-account shall be made monthly as follows:

- a. A debit entry equal to the monthly amount of the ADBRR calculated by multiplying the applicable MDP to the annual ADBRR (as determined in Section 2 above), less a provision for FF & U;
- b. A credit entry equal to BRRBA Distribution Revenue;
- c. A debit entry to record incremental RTE M O&M costs until the Commission has adopted ratemaking in SCE's October 15, 2004 Demand Response Program proceeding. (N)  
|  
(N)
- d. An entry to record other Distribution-related amounts as authorized by the Commission (e.g., transfer of amounts recorded in the Late Payment Charge Revenue Balancing Account). (T)

5. Generation Sub-account:

The purpose of the Generation Sub-account of the BRRBA is to record the monthly difference between: 1) the AGBRR; and 2) recorded Generation Revenue.

Entries to the Generation Sub-account shall be made monthly as follows:

- a. A debit entry equal to the monthly amount of the AGBRR calculated by multiplying the applicable MDP (as determined in Section 2 above) to the annual AGBRR without an amount for refueling (as shown in Table C), less a provision for FF & U;

(Continued)

(To be inserted by utility)

Advice 1850-E  
Decision 01-08-021

Issued by

John R. Fielder  
Senior Vice President

(To be inserted by Cal. PUC)

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Effective Dec 22, 2004  
Resolution \_\_\_\_\_

Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 1

APPLICABILITY

Applicable to single- and three-phase service including lighting and power, except that the customer whose monthly Maximum Demand, in the opinion of SCE, is expected to exceed 500 kW or has exceeded 500 kW for any three months during the preceding 12 months is ineligible for service under this Schedule. Effective with the date of ineligibility, the customer's account shall be transferred to Schedule TOU-8. Further, any customer served under this Schedule whose monthly Maximum Demand has registered 20 kW or less for 12 consecutive months is eligible for service under another applicable rate schedule. However, a Schedule GS-2 customer who makes a permanent change in operating conditions that SCE, in its sole opinion, anticipates will reduce the customer's demand to 20 kW or less, may transfer to another applicable rate schedule before completing 12 consecutive months at 20 kW or less. Such customer shall be required to sign the Permanent Change in Operating Conditions Declaration, Form No. 14-548. Customers served under this Schedule with monthly Maximum Demands that reach or exceed 200 kW in any three months during the preceding 12 months shall have a Real Time Energy Meter (RTM) or other type of interval meter installed and shall receive service under the Time-of-Use (TOU) pricing provision of the Energy Charge of this Schedule, or may elect service under another applicable TOU rate schedule. This Schedule is subject to meter availability.

(C)  
|  
(C)  
(D)

TERRITORY

Within the entire territory served.

RATES

	Delivery Service							Gen <sup>8</sup>	
	Trans <sup>1</sup>	Distrbn <sup>2</sup>	NDC <sup>3</sup>	PPPC <sup>4</sup>	PUCRF <sup>5</sup>	DWRBC <sup>6</sup>	Total <sup>7</sup>	URG	DWR
Energy Charge - \$/kWh/Meter/Month									
Non TOU									
For the first 300 kWh per kW									
of Maximum Demand	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.06539	0.09056
All excess kWh	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.07910	0.09056
TOU Pricing Option									
Summer Season – On-Peak	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.11832	0.09056
Mid-Peak	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.06769	0.09056
Off-Peak	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.05336	0.09056
Winter Season – Mid-Peak	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.07502	0.09056
Off-Peak	0.00016	0.00954	0.00056	0.00366	0.00012	0.00493	0.01897	0.05336	0.09056
Customer Charge - \$/Meter/Month	0.00	67.78					67.78	6.25	
Demand Charge - \$/kW of Billing Demand/Meter/Month									
Facilities Related	1.09	4.35					5.44	0.77	
Time Related									
Summer	0.00	7.04					7.04	1.87	
Winter	0.00	0.00					0.00	0.00	
Single Phase Service - \$/Month	0.00	(2.40)					(2.40)	0.00	
Excess Transformer Capacity - \$/kVA/Month	0.00	1.00					1.00	0.00	
Power Factor Adjustment - \$/kVA/Month									
Greater than 50 kV	0.00	0.18					0.18	0.00	
50 kV or less	0.00	0.23					0.23	0.00	

(Continued)

(To be inserted by utility)

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John R. Fielder  
Senior Vice President

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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 3

(Continued)

SPECIAL CONDITIONS

1. Time periods are defined as follows:

- On-Peak: Noon to 6:00 p.m. summer weekdays except holidays
- Mid-Peak: 8:00 a.m. to Noon and 6:00 p.m. to 11:00 p.m. summer weekdays except holidays
- Off-Peak: 8:00 a.m. to 9:00 p.m. winter weekdays except holidays  
All other hours.

Holidays are New Year's Day (January 1), Washington's Birthday (third Monday in February), Memorial Day (last Monday in May), Independence Day (July 4), Labor Day (first Monday in September), Veterans Day (November 11), Thanksgiving Day (fourth Thursday in November), and Christmas (December 25).

When any holiday listed above falls on Sunday, the following Monday will be recognized as an off-peak period. No change will be made for holidays falling on Saturday.

The summer season shall commence at 12:00 a.m. on the first Sunday in June and continue until 12:00 a.m. of the first Sunday in October of each year. The winter season shall commence at 12:00 a.m. on the first Sunday in October of each year and continue until 12:00 a.m. of the first Sunday in June of the following year. A pro rata computation will be made for seasonal billing purposes.

- 2. Time-of-Use (TOU) Energy Charge: Customers served under this Schedule whose monthly Maximum Demands reach or exceed 200 kW in any three months during the preceding 12 months shall be provided service under the TOU pricing provision of the Energy Charge of this Schedule or may choose another applicable TOU rate schedule. Once such customer's monthly Maximum Demand has registered less than 200 kW for 12 consecutive months, the customer may elect service under either the TOU or non TOU pricing provision of the Energy Charge of this Schedule or chose to receive service under another applicable rate schedule. However, if such customer makes a permanent change in operating conditions that SCE, in its sole opinion, anticipates will permanently reduce the customer's demand below 200 kW, the customer may transfer to another applicable rate schedule before completing 12 consecutive months below 200 kW. Such customers shall be required to sign the Permanent Change in Operating Conditions Declaration, Form No. 14-548. In addition, a customer with monthly Maximum Demands that do not reach 200 kW as described above may elect service under the TOU pricing provisions of the Energy Charge, but only after installation of an RTEM or other type of interval meter provided at the customer's expense. (C)
- 3. Voltage: Service will be supplied at one standard voltage. (D)
- 4. Billing Demand: The Billing Demand shall be the kilowatts of Maximum Demand, determined to the nearest kW. The Demand Charge shall include the following billing components. The Time Related Component shall be for the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period. The Facilities Related Component shall be for the greater of the kilowatts of Maximum Demand recorded during (or established for) the monthly billing period or 50% of the highest Maximum Demand established in the preceding eleven months (Ratcheted Demand). However, when SCE determines the customer's meter will record little or no energy use for extended periods of time or when the customer's meter has not recorded a Maximum Demand in the preceding eleven months, the Facilities Related Component of the Demand Charge may be established at 50 percent of the customer's connected load. (T)

(Continued)

(To be inserted by utility)  
Advice 1850-E  
Decision 01-08-021

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Senior Vice President

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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 4

(Continued)

SPECIAL CONDITIONS (Continued)

- 5. Maximum Demand: The maximum demand in any month shall be the measured maximum average kilowatt input, indicated or recorded by instruments, during any 15-minute metered interval in the month, but, where applicable, shall not be less than the diversified resistance welder load computed in accordance with the section designated Welder Service in Rule 2. Where the demand is intermittent or subject to violent fluctuations, a 5-minute interval may be used. (T)
- 6. Single-Phase Service: Where SCE provides single-phase service, the billing will be reduced by the amount shown in the Rates section, above. (T)
- 7. Excess Transformer Capacity: Excess Transformer Capacity is the amount of transformer capacity requested by a customer in excess of that which the Company would normally install to serve the customer's Maximum Demand. Excess Transformer Capacity shall be billed at the amount shown in the Rates section, above. (T)
- 8. Voltage Discount: The monthly Facilities Related Demand Charge will be reduced by 23.3% for service delivered and metered at voltages of 2 kV through 50 kV and by 71.1% for service delivered and metered at voltages over 50 kV. The discount applied to Energy Charges is calculated by taking the Base Rate Energy Charge in effect on June 10, 1996 of \$0.02307 per kWh and multiplying by 3.2% for service delivered and metered at voltages of 2 kV through 50 kV, and by 14.8% for service delivered and metered at voltages over 50 kV. (T)
- 9. Power Factor Adjustment: When the Maximum Demand has exceeded 200 kW for three consecutive months, kilovar metering will be installed as soon as practical, and, thereafter, until the Maximum Demand has been less than 150 kW for twelve consecutive months, the billing will be increased each month for power factor by the amount shown in the Rates section above for service metered and delivered at the applicable voltage level, based on the per kilovar of maximum Reactive Demand imposed on SCE. The reactive demand will be determined as follows: (T)
  - a. Service metered and delivered at voltages of 4 kV or greater and for all Cogeneration and Small Power Production customers:  
  
The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.

(Continued)

(To be inserted by utility)  
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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 5

(Continued)

SPECIAL CONDITIONS (Continued)

9. Power Factor Adjustment: (Continued) (T)
- b. Service metered and delivered at voltages Less than 4 kV:
- (1) For customers with metering used for billing that measures reactive demand.
- The maximum reactive demand shall be the highest measured maximum average kilovar demand indicated or recorded by metering during any 15-minute metered interval in the month. The kilovars shall be determined to the nearest unit. A device will be installed on each kilovar meter to prevent reverse operation of the meter.
- (2) For customers with metering used for billing that measures kilovar-hours instead of reactive demand.
- The kilovars of reactive demand shall be calculated by multiplying the kilowatts of measured maximum demand by the ratio of the kilovar-hours to the kilowatt-hours. Demands in kilowatts and kilovars shall be determined to the nearest unit. A ratchet device will be installed on the kilovar-hour meter to prevent its reverse operation on leading power factors.
10. Temporary Discontinuance of Service: Where the use of energy is seasonal or intermittent, no adjustments will be made for a temporary discontinuance of service. Any customer resuming service within twelve months after such service was discontinued will be required to pay all charges which would have been billed if service had not been discontinued. (T)

(Continued)

(To be inserted by utility)

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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 6

(Continued)

SPECIAL CONDITIONS (Continued)

11. Customer-Owned Electrical Generating Facilities: (T)
- a. Where customer-owned electrical generating facilities are used to meet a part or all of the customer's electrical requirements, service shall be provided concurrently under the terms and conditions of Schedule S and this Schedule. Parallel operation of such generating facilities with SCE's electrical system is permitted. A generation interconnection agreement is required for such operation.
- b. Customer-owned electrical generating facilities used solely for auxiliary, emergency, or standby purposes (auxiliary/emergency generating facilities) to serve the customer's load during a period when SCE's service is unavailable and when such load is isolated from the service of SCE are not subject to Schedule S. However, upon approval by SCE, momentary parallel operation may be permitted to allow the customer to test the auxiliary/emergency generating facilities. A Momentary Parallel Generation Contract is required for this type of service.
12. CARE Discount: Customers who meet the definition of a group living facility as defined in the Preliminary Statement, Part O, Section 3.f., may qualify for an Energy Charge credit and a 20% discount off of their bill after the Energy Charge credit, shown below, has been applied, and prior to application of the PUC Reimbursement Fee and any applicable user fees, taxes, and late payment charges. Customers eligible for the CARE Discount will not be required to pay the CARE Surcharge, as set forth in Preliminary Statement, Part O, Section 5 and are not subject to the DWRBC rate component of the Total charges for Delivery Service. An Application and Eligibility Declaration (Form No. 14-526), as defined in the Preliminary Statement, Part O, Section 3.h., is required for service under this Special Condition. Eligible customers shall be billed on this Schedule commencing no later than one billing period after receipt and approval of the customer's application by SCE. Customers may be rebilled on the applicable rate schedule for periods in which they do not meet the eligibility requirements for the CARE discount as defined in the Preliminary Statement, Part O, Section 3.g. and Section 3.i. (T)

Energy Charge Credit - \$/kWh

1 <sup>st</sup> Block	\$0.02476
2 <sup>nd</sup> Block	\$0.06993

Time-of-Use Energy Charge Credit - \$/kWh

Summer	On-Peak	\$0.06832
	Mid-Peak	\$0.02341
	Off-Peak	\$0.01070
Winter	Mid-Peak	\$0.02991
	Off-Peak	\$0.01070

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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 7

(Continued)

SPECIAL CONDITIONS (Continued)

13. Bill Limiter: For customers transferred to Schedule GS-2 for the first time due to becoming ineligible for service under Schedule GS-1, the customer's total monthly bill for charges under Schedule GS-2, excluding the Public Utilities Reimbursement Fee, California Alternate Rates for Energy Surcharge, as set forth in Preliminary Statement, Part O, Section 5, Power Factor Adjustment, and Excess Transformer Capacity charge, shall for the first three years following transfer be limited to no more than the customer's comparable monthly bill for charges under Schedule GS-1 for the same period plus the following percentages: (T)

<u>Period</u>	<u>Percentages</u>
1st Year	10
2nd Year	20
3rd Year	30

The Bill Limiter shall not apply commencing in the fourth year after the customer has transferred to Schedule GS-2. This Special Condition is applicable to customers purchasing Delivery and Generation services from SCE pursuant to this Schedule. Direct Access customers and customers receiving Transitional Bundled Service are not eligible.

14. Billing Calculation: A customer's bill is calculated according to the rates and conditions above. (T)

Except for the Energy Charge, the charges listed in the Rates section are calculated by multiplying the Total Delivery Service rates and the Generation rates, when applicable, by the billing determinants (e.g., per kilowatt [kW], kilowatthour [kWh], kilovar [kVa] etc.),

The Energy Charge, however, is determined by multiplying the total kWhs by the Total Delivery Service per kWh rates to calculate the Delivery Service amount of the Charge. To calculate the Generation amount, SCE determines what portion of the total kWhs is supplied by the Utility Retained Generation (URG) and the Department of Water Resources (DWR). The kWhs supplied by the URG are multiplied by the URG per kWh rates and the kWhs supplied by the DWR are multiplied by the DWR per kWh rate and the two products are summed to arrive at the Generation amount. The Energy Charge is the sum of the Delivery Service amount and the Generation amount.

For each billing period, SCE determines the portion of total kWhs supplied by SCE's URG and by the DWR. This determination is made by averaging the daily percentages of energy supplied to SCE's Bundled Service Customers by SCE's URG and by the DWR.

- a. Bundled Service Customers receive Delivery Service from SCE and receive supply (Gen) service from both SCE's URG and the DWR. The customer's bill is the sum of the charges for Delivery Service and Gen determined, as described in this Special Condition, and subject to applicable discounts or adjustments provided under SCE's tariff schedules.
- b. Direct Access Customers receive Delivery Service from SCE and purchase energy from an Energy Service Provider. The customer's bill is the sum of the charges for Delivery Service determined as described in this Special Condition except that the DWRBC rate component is subtracted from the Total Delivery Service rates before the billing determinants are multiplied by such resulting Total rates; plus the applicable charges as shown in Schedule DA and subject to applicable discounts or adjustments provided under SCE's tariff schedules.

(Continued)

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Schedule GS-2  
GENERAL SERVICE - DEMAND

Sheet 8

(Continued)

SPECIAL CONDITIONS (Continued)

15. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (T)

Sub-transmission customers, except for those customers exempt from rotating outages, are to be included in controlled, rotating outages when required by the Independent System Operator (ISO). To the extent feasible, SCE will coordinate rotating outages applicable to Sub-transmission customers who are fossil fuel producers and pipeline operators and users to minimize disruption to public health and safety. SCE shall not include a Sub-transmission customer in an applicable rotating outage group if the customer's inclusion would jeopardize electric system integrity. Sub-transmission customers who are not exempt from rotating outages, and seek such exemption, may submit an Optional Binding Mandatory Curtailment (OBMC) Plan to SCE in accordance with Schedule OBMC. If SCE approves a customer's OBMC Plan, the customer will become exempt from rotating outages and will be subject to the terms and conditions of Schedule OBMC and its associated contract.

Non-exempt Sub-transmission customers shall be required to drop their entire electrical load during applicable rotating outages by either (1) implementing the load reduction on their own initiative, in accordance with subsection a, below; or (2) having SCE implement the load reduction through remote-controlled load drop equipment (control equipment) in accordance with subsection b, below. A Sub-transmission customer shall normally be subject to the provisions of subsection a. If SCE approves a customer's request to have SCE implement the load reduction or if the customer does not comply with prior required load reductions, as specified in subsection c, the customer will be subject to the provisions of subsection b.

a. Customer-Implemented Load Reduction.

- (i) Notification of Required Load Reduction. At the direction of the ISO, SCE shall notify each Sub-transmission customer in an affected rotating outage group to drop its entire load. Within 30 minutes of such notification, the customer must drop its entire load. The customer shall not return the dropped load to service until 90 minutes after SCE sent the notification to the customer to drop its load, unless SCE notifies the customer that it may return its load to service prior to the expiration of the 90 minutes.

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GENERAL SERVICE - DEMAND

Sheet 9

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SPECIAL CONDITIONS (Continued)

15. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued) (T)

a. Customer-Implemented Load Reduction. (Continued)

(ii) Method of Notification. SCE will notify Sub-transmission customers who are required to implement their own load reduction via telephone, by either an automated calling system or a manual call to a business telephone number or cellular phone number designated by the customer. The designated telephone number will be used for the sole purpose of receiving SCE's rotating outage notification and must be available to receive the notification at all times. When SCE sends the notification to the designated telephone number the customer is responsible for dropping its entire load in accordance with subsection a. (i), above. The customer is responsible for informing SCE, in writing, of the telephone number and contact name for purposes of receiving the notification of a rotating outage.

(iii) Excess Energy Charges. If a Sub-transmission customer fails to drop its entire load within 30 minutes of notification by SCE, and/or fails to maintain the entire load drop until 90 minutes after the time notification was sent to the customer, unless SCE otherwise notified the customer that it may return its load to service earlier in accordance with subsection a. (i) above, SCE shall assess Excess Energy Charges of \$6 per kWh for all kWh usage in excess of the Authorized Residual Ancillary Load. Such charges will be based on the total kWh usage during the applicable rotating outage penalty period, less the product of Authorized Residual Ancillary Load in kW and the applicable rotating outage penalty period in hours. Excess Energy Charges will be determined and applied by SCE subsequent to the Sub-transmission customer's regularly scheduled meter read date following the applicable rotating outage.

(iv) Authorized Residual Ancillary Load. Authorized Residual Ancillary Load is load that is deemed to be equivalent to five percent of the Sub-transmission customer's prior billing month's recorded Maximum Demand. This minimum load level is used as a proxy to allow for no-load transformer losses and/or load attributed to minimum grid parallel operation for generators connected under Rule 21.

(Continued)

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GENERAL SERVICE - DEMAND

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SPECIAL CONDITIONS (Continued)

15. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued) (T)

b. SCE-Implemented Load Reduction.

Non-exempt Sub-transmission customers may request, in writing, to have SCE drop the customer's entire load during all applicable rotating outages using SCE's remote-controlled load drop equipment (control equipment). If SCE agrees to such arrangement, SCE will implement the load drop by using one of the following methods:

- (i) Control Equipment Installed. For a Sub-transmission customer whose load can be dropped by SCE's existing control equipment, SCE will implement the load drop during a rotating outage applicable to the customer. The customer will not be subject to the Notification and Excess Energy Charge provisions set forth in subsection a, above.
- (ii) Control Equipment Pending Installation. For a Sub-transmission customer whose load can not be dropped by SCE's existing control equipment, the customer must request the installation of such equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities. Pending the installation of the control equipment, the customer will be responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy Charge provisions.

c. Non-compliance: A non-exempt Sub-transmission customer subject to subsection a, above, who fails to drop load during three rotating outages in a three year period to a demand level of 20% or less of the customer's prior billing month's recorded Maximum Demand averaged over the applicable rotating outage period, is not in compliance with this tariff. The three year period shall commence with the first failure to drop load as specified in this subsection. A customer not in compliance with this condition will be placed at the top of the Sub-transmission customer rotating outage group list and will be expected to comply with subsequent applicable rotating outages. In addition, the customer must select one of the two options below within fifteen days after receiving written notice of non-compliance from SCE. A customer failing to make a selection within the specified time frame will be subject to subsection c. (ii) below.

- (i) Subject to Schedule OBMC: The customer shall submit an OBMC Plan, in accordance with Schedule OBMC, within 30 calendar days of receiving written notice of non-compliance from SCE. Pending the submittal of the OBMC Plan by the customer and pending the review and acceptance of the OBMC Plan by SCE, the customer will remain responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy charge provisions. If the customer fails to submit an OBMC Plan within 30 days of receiving notice of non-compliance from SCE, or if the customer's OBMC Plan is not approved by SCE, or if the customer fails to meet the requirements of Schedule OBMC once the OBMC Plan is approved, the customer shall be subject subsection c. (ii), below.

(Continued)

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GENERAL SERVICE - DEMAND

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SPECIAL CONDITIONS (Continued)

15. Customers with Service Metered and Delivered at Voltages above 50 kV (Sub-transmission customers) Included in Rotating Outages. (Continued) (T)

c. Non-compliance: (Continued)

(ii) Installation of Control Equipment. The customer shall be subject to the installation of control equipment at the customer's expense in accordance with SCE's Rule 2, Section H, Added Facilities, if such equipment is not currently installed. If such switching capability is installed, SCE will drop the customer's load for all applicable subsequent rotating outages in accordance with the provisions of subsection b, above. Pending the installation of control equipment, the customer will remain responsible for dropping load in accordance with the provisions of subsection a, above, including the Notification and Excess Energy Charge provisions.

d. Net-Generators

Sub-transmission customers who are also net-generators are normally exempt from rotating outages, but they must be net suppliers of power to the grid during all rotating outages. For the purpose of this Special Condition, a net-generator is an SCE customer who operates an electric generating facility as part of its industrial or commercial process, and the generating facility normally produces more electrical power than is consumed in the industrial or commercial process, with the excess power supplied to the grid. Sub-transmission customers whose primary business purpose is to generate power are not included in this Special Condition.

(i) Notification of Rotating Outages. SCE will notify sub-transmission customers who are net-generators of all rotating outages applicable to customers within SCE's service territory. Within 30 minutes of notification, the customer must ensure it is a net supplier of power to the grid throughout the entire rotating outage period. Failure to do so will result in the customer losing its exemption from rotating outages, and the customer will be subject to Excess Energy Charges, as provided below.

(ii) Excess Energy Charges. Net generators who are not net suppliers to the grid during each rotating outage period will be subject to Excess Energy Charges of \$6 per kWh for all kWh usage in excess of the Authorized Residual Ancillary Load. Such charges will be based on the total kWh usage during a rotating outage penalty period, less the product of Authorized Residual Ancillary Load in kW and the applicable rotating outage period hours. Excess Energy Charges will be determined and applied by SCE subsequent to the customer's regularly scheduled meter read date following the applicable rotating outage. Excess Energy Charges shall not apply during periods of verifiable scheduled generator maintenance or if the customer's generator suffers a verifiable forced outage. The scheduled maintenance must be approved in advance by either the ISO or SCE, but approval may not be unreasonably withheld.

(Continued)

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**Schedule PA-1  
POWER - AGRICULTURAL AND PUMPING  
CONNECTED LOAD BASIS**

Sheet 1

APPLICABILITY

Applicable where SCE determines that 70% or more of the customer's electrical usage is for general agricultural purposes or for general water or sewerage pumping and none of any remaining electrical usage is for purposes for which a domestic schedule is applicable. The customer whose monthly Maximum Demand, in the opinion of SCE, is expected to, or has reached, 200 kW or above in any three months during the preceding 12 months shall have a Real Time Energy Meter (RTEM) or other type of interval meter installed and shall become ineligible for service under this Schedule. Upon such ineligibility a customer whose Maximum Demand is 500 kW or below shall be transferred to an applicable agricultural Time-of Use (TOU) rate schedule, while a customer whose Maximum Demand exceeds 500 kW will be transferred to Schedule TOU-8. However, in accordance with Schedule TOU-8, a large individual water agency or other large water pumping account with 70% or more of the water pumped used for agricultural purposes, must take service on a TOU agricultural class rate schedule. This Schedule is subject to meter availability.

 (C)  
 -----  
 (C)

TERRITORY

Within the entire territory served.

RATES

	Delivery Service							Gen <sup>8</sup>	
	Trans <sup>1</sup>	Distrbtn <sup>2</sup>	NDC <sup>3</sup>	PPPC <sup>4</sup>	PUCRF <sup>5</sup>	DWRBC <sup>6</sup>	Total <sup>7</sup>	URG	DWR
Energy Charge - \$/kWh/Meter/Month	0.00015	0.02077	0.00070	0.00435	0.00012	0.00493	0.03102	0.05823	0.09056
Customer Charge - \$/Meter/Month	0.00	22.69					22.69	0.00	
Service Charge* - \$/hp/Month	0.23	2.33					2.56	0.01	
Off-Peak Credit - \$/hp/Month	0.00	0.00					0.00	(1.57)	
Voltage Discount, Energy - %									
From 2 kV to 50 kV	0.00	72.50					72.50**	27.50**	
Above 50 kV	0.00	72.50					72.50**	27.50**	
Bill Limiter*** - %	2.52	28.22					30.74**	69.26**	

\* In no case will charges be based on less than two horsepower (hp) for single-phase service or on less than three hp for three-phase service.  
 \*\* Represents 100% of the discount percentage as shown in the applicable Special Condition of this Schedule.  
 \*\*\* Certain customers may also be eligible for an Average Rate Limiter as provide by Special Condition 9.  
<sup>1</sup> Trans = Transmission and the Transmission Owners Tariff Charge Adjustments (TOTCA) which are FERC approved. The TOTCA represents the Transmission Revenue Balancing Account Adjustment (TRBAA) of negative \$0.00047 per kWh, Reliability Services Balancing Account Adjustment (RSBAA) of \$0.00021 per kWh, and Transmission Access Charge Balancing Account Adjustment (TACBAA) of \$0.00041 per kWh.  
<sup>2</sup> Distrbtn = Distribution  
<sup>3</sup> NDC = Nuclear Decommissioning Charge  
<sup>4</sup> PPPC = Public Purpose Programs Charge  
<sup>5</sup> PUCRF = The PUC Reimbursement Fee is described in Schedule RF-E.  
<sup>6</sup> DWRBC = Department of Water Resources (DWR) Bond Charge. The DWR Bond Charge is not applicable to exempt Bundled Service and Direct Access Customers, as defined in and pursuant to D.02-10-063, D.02-02-051, and D.02-12-082.  
<sup>7</sup> Total = Total Delivery Service rates that are applicable to both Bundled Service and Direct Access (DA) Customers, except DA Customers are not subject to the DWRBC rate component of this Schedule but instead pay the DWRBC as provided by Schedule DA.  
<sup>8</sup> Gen = Generation – The Gen rates are applicable only to Bundled Service Customers. When calculating the Energy Charge, the Gen portion is calculated as described in the Billing Calculation Special Condition of this Schedule.

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(To be inserted by utility)  
Advice 1850-E  
Decision 01-08-021

Issued by  
John R. Fielder  
Senior Vice President

(To be inserted by Cal. PUC)  
Date Filed Dec 22, 2004  
Effective Dec 22, 2004  
Resolution \_\_\_\_\_



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Advice 1850-E  
Decision 01-08-021

Issued by

John R. Fielder  
Senior Vice President

(To be inserted by Cal. PUC)

Date Filed Dec 22, 2004  
Effective Dec 22, 2004  
Resolution \_\_\_\_\_



March 22, 2005

California Public Utilities Commission  
505 Van Ness Avenue, Room 4005  
San Francisco, CA 94102

Attn: Jerry Royer  
Energy Division

Re: Substitute Sheets for Advice: 1830-E, 1850-E, 1851-E, 1852-E,  
1854-E, 1856-E, 1864-E, 1868-E

Dear Mr. Royer:

Enclosed are an original and four copies of Attachment A and Substitute Sheet Nos. 36979-E\*, 37029-E\*, 37030-E\*, 37306-E\*, 37316-E\*, 37317-E\*, 37343-E\*, 37350-E\*, 37352-E\*, 37385-E\*, 37386-E\*, 37445-E\*, 37447-E\*, 37480-E\*, 37557-E\*, 37559-E\*, 37597-E\*, 37670-E\*, 37680-E\*, 37682-E\*, 37720-E\*, 37721-E\*, 37845-E\*, 37859-E\*, 37861-E\*, 37897-E\*\*, 37898-E\*\*, 38024-E\*, 38028-E\*, 38072-E\*\* and 38076-E\*. These Substitute Sheets are for Schedules GS-2, PA-1, PA-2, TOU-GS-1, TOU-EV-3 and are necessary due to the following filings that became effective out of order.

Advice No. 1830-E	Effective Date: January 1, 2005
Advice No. 1850-E	Effective Date: December 22, 2004
Advice No. 1851-E	Effective Date: December 23, 2004
Advice No. 1852-E	Effective Date: January 1, 2005
Advice No. 1854-E	Effective Date: January 1, 2005
Advice No. 1856-E	Effective Date: April 1, 2005
Advice No. 1864-E	Effective Date: February 10, 2005
Advice No. 1868-E	Effective Date: February 14, 2005

Please include the enclosed sheets in your master Advice 1830-E, 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E and 1868-E files. If you have any questions, please contact Rosie Yocupicio at (626) 302-4858.

Sincerely,

Enclosures

1830, E 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E, 1868-E Sub.doc

November 28, 2005

California Public Utilities Commission  
505 Van Ness Avenue, Room 4005  
San Francisco, CA 94102

Attn: Jerry Royer  
Energy Division

Re: Substitute Sheets for Advice 1808-E, 1830-E, 1850-E, 1851-E, 1852-E,  
1854-E, 1856-E, 1864-E and 1868-E

Dear Mr. Royer:

Enclosed are an original and four copies of Attachment A and Substitute Sheet Nos. 36706-E\*, 37030-E\*\*, 37317-E\*\*, 37386-E\*\*, 37481-E\*, 37598-E\*, 37721-E\*\*, 37898-E\*\*\* and 38076-E\*\* for Advice Letters 1808-E, 1830-E, 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E and 1868-E. These Substitute Sheets are necessary to correct an inadvertent rate oversight error in Advice Letter 1808-E for Schedule PA-2. Rate components have been updated in the Energy Charge, Public Purpose Programs Charge (PPPC) rate components columns from "0.00000" to "0.00327". This rate change will not have an impact on customers, as customers served on this rate schedule are being billed with the correct rate.

Please replace and include the enclosed sheets in your master Advice 1808-E, 1830-E, 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E and 1868-E files. If you have any questions, please contact Rosie Yocupicio at (626) 302-4858.

Sincerely,

Enclosures

1808-E, 1830-E, 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E, 1868-E

March 17, 2005

California Public Utilities Commission  
505 Van Ness Avenue, Room 4005  
San Francisco, CA 94102

Attn: Jerry Royer  
Energy Division

Re: Substitute Sheets for Advice: 1830-E, 1850-E, 1851-E, 1852-E,  
1854-E, 1856-E, 1864-E, 1868-E

Dear Mr. Royer:

Enclosed are an original and four copies of Attachment A and Substitute Sheet Nos. 37029-E\*, 37316-E\*, 37385-E\*, 37480-E\*, 37597-E\*, 37720-E\*, 37897-E\*\* and 38072-E.\*\* These Substitute Sheets are necessary due to the following filings become effective out of order.

Advice No.	1830-E	Effective Date:	January 1, 2005
Advice No.	1850-E	Effective Date:	December 22, 2004
Advice No.	1851-E	Effective Date:	December 23, 2004
Advice No.	1852-E	Effective Date:	January 1, 2005
Advice No.	1854-E	Effective Date:	January 1, 2005
Advice No.	1856-E	Effective Date:	April 1, 2005
Advice No.	1864-E	Effective Date:	February 10, 2005
Advice No.	1868-E	Effective Date:	February 14, 2005

Please include the enclosed sheets in your master Advice 1830-E, 1850-E, 1851-E, 1852-E, 1854-E, 1856-E, 1864-E and 1868-E files. If you have any questions, please contact Rosie Yocupicio at (626) 302-4858.

Sincerely,

Enclosures  
1868-ESub.doc