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January 23, 2001

**ADVICE 1514-E**  
**(U 338-E)**

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA  
ENERGY DIVISION

**SUBJECT:** Revision to Schedule PX - Power Exchange Energy, to Modify the Power Exchange Energy Cost Calculation to Reflect the Self-Provision of Power from Retained Generation Assets, Including Power Purchase Contracts, and the Purchase of Excess Power Requirements from Available Markets

In compliance with the FERC Order Directing Remedies for California Wholesale Electric Markets (FERC Order), Docket No. EL00-95-000, et al, and in consideration of the expiration of the California Power Exchange (PX) as an available market, Southern California Edison Company (SCE) hereby submits for filing the following changes to its tariff schedules. The revised tariff sheets are listed on Attachment A and are attached hereto.

**PURPOSE**

This advice filing revises Schedule PX, Power Exchange Energy to rename it Schedule PE, Procured Energy, and to modify Section 1, PX Energy Cost, on an interim basis, to reflect available generation sources for procurement that were authorized in the FERC Order and the termination of procurement from the PX.

SCE proposes an interim method for reflecting the costs associated with procuring power from retained generation assets, including power purchase contracts and existing markets in the calculation of the Procured Energy Cost. This method will terminate at the end of the rate freeze or earlier.

## **BACKGROUND**

On January 19, 2001, SCE officially ended participation in day-ahead and day-of market power purchases with the PX. Also, pursuant to the FERC Order revoking SCE's authority to sell power from its retained generation assets into the PX markets, SCE ceased bidding its retained generation into the PX on December 28, 2000. Hence, as of January 19 SCE has served native load requirements from retained generation, including power purchase contracts, and continues to obtain requirements in excess of retained generation in the Independent System Operator (ISO) real time markets.

The existing methodology for calculating the PX energy charge in Schedule PX anticipates that all SCE resources are bid into, and that all SCE bundled service customers' energy requirements are obtained from, the PX. The Average Energy Charge calculated under Schedule PX is utilized to determine the Direct Access credit and is displayed on Bundled Service customers' bills. SCE's proposal revises this calculation to include the cost of power from retained generation and power purchase contracts and the ISO imbalance market. SCE proposes to use this revised calculation, now referred to as the Procured Energy Cost, on an interim basis beginning January 19, 2001, for the determination of credit for Direct Access customers, subject to adjustment as of that date if the Commission modifies SCE's proposal.

In accordance with the FERC Order and recent developments in existing energy markets, this advice filing revises Schedule PX, Section 1 to reflect the fact that SCE's native load requirements will be supplied through a combination of retained generation assets and existing power purchase contracts, with all remaining requirements procured through the ISO imbalance market. The Procured Energy Cost will be the weighted hourly cost of (1) retained generation, based on current operating and capital costs, including recovery of plant-in-service, return and taxes; (2) quantities provided under power purchase contracts; and (3) remaining load requirements obtained through the ISO imbalance markets, included in the manner currently described in Schedule PX, Section 1(b), 'Cost of Settlement for Imbalance Energy'.

With the termination of PX operations, references to all markets formerly managed by the PX, such as the CalPX Block Forward Market (BFM), are eliminated from Schedule PX. In addition, with the expiration of the Schedule VPRC, Voluntary Power Reduction Credit, cost recovery mechanism the VPRC credit component of the Procured Energy Cost calculation is eliminated. These modifications are reflected in the attached tariff sheets.

SCE has provided, as an appendix to this advice filing, preliminary generation costs in support of those used in the calculation of the Procured Energy Power Cost as described above.

This advice filing will not increase any rate or charge for bundled service customers, cause the withdrawal of service, or conflict with any other schedule or rule. This advice filing will impact credits received by direct access customers

**EFFECTIVE DATE**

In consideration of current market conditions and in compliance with the FERC Order, the tariff changes described in this advice filing are requested to be effective on January 19, 2001. SCE requests the Commission issue a resolution confirming this effective date and approving the tariff changes proposed in this filing.

**NOTICE**

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 20 days after the date of this advice filing. Protests should be mailed to:

IMC Program Manager  
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:

Donald A. Fellows  
Manager of Revenue and Tariffs  
Southern California Edison Company  
2244 Walnut Grove Avenue, Rm. 303  
Rosemead, California 91770  
Facsimile: (626) 302-4829  
E-mail: [fellowda@sce.com](mailto:fellowda@sce.com)

Bruce Foster  
Vice President of Regulatory Operations  
Southern California Edison Company  
601 Van Ness Avenue, Suite 2040  
San Francisco, California 94102  
Facsimile: (415) 673-1116  
E-mail: [fosterbc@sce.com](mailto:fosterbc@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 mailing copies of this advice filing to the interested parties shown on the attached service list. Address change requests to the attached GO 96-A Service List should be directed to Emelyn Lawler at (626) 302-3985 (E-mail: Emelyn.Lawler@sce.com).

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.

For questions, please contact Jim Schichtl @ (626) 302-1707  
(James.Schichtl@SCE.COM).

**Southern California Edison Company**

Donald A. Fellows, Jr.

DAF:js/eml  
Enclosures

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 28371-E Revised 28372-E Revised 28373-E Revised 28374-E Revised 28375-E Revised 28376-E	Schedule PX Schedule PX Schedule PX Schedule PX Schedule PX Schedule PX	Revised 26736-E* Revised 26737-E* Revised 27000-E* Revised 27001-E* Revised 27002-E Revised 27003-E
Revised 28377-E Revised 28378-E	Table of Contents Table of Contents	Revised 28354-E Revised 28360-E



Schedule PE  
PROCURED ENERGY

Sheet 1 (C)  
(C)

APPLICABILITY

Applicable to all SCE Bundled Service Customers in the calculation of the Averaged Procured Energy Charge and Direct Access Customers in the calculation of the Procured Energy Credit. The cost recovery mechanism reflected in this Schedule will apply on an interim basis through the end of SCE's rate freeze period. (C)  
|  
(C)  
(D)

TERRITORY

Within the entire territory served.

RATES

All charges, terms, and conditions of the customer's otherwise applicable rate schedule, or contract rate shall apply, except that the customer's total bill shall be adjusted as follows:

1. Procured Energy Cost (C)

The Procured Energy Cost shall equal SCE's total hourly cost of procuring energy from all sources. The Procured Energy Cost shall be calculated for each hour as the sum of the weighted average cost of energy from retained generation assets, including existing Power Purchase contracts with Qualifying Facilities (QFs), plus the cost of settlements for imbalance energy, plus uplift charges paid to the ISO by SCE on behalf of SCE Bundled Service Customers. (C)  
|  
|  
|  
(C)

a. Weighted Average of Retained Generation and Power Purchase Costs (C)

The weighted average of Retained Generation and Power Purchase prices shall be calculated for each hour as the sum of the SCE Owned Generation Asset cost per kWh times the kWh generated for that hour, plus the weighted average of capacity and energy payments under the applicable Power Purchase contract per kWh times the kWh provided by these resources for that hour, all divided by the total kWh procured from these sources for that hour. (C)  
|  
|  
|  
(C)

(Continued)

(To be inserted by utility)  
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Issued by  
John R. Fielder  
Senior Vice President

(To be inserted by Cal. PUC)  
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Schedule PE  
PROCURED ENERGY

Sheet 2 (C)  
(C)

(Continued)

RATES (Continued)

1. Procured Energy Cost (Continued) (C)

b. Adjustment For Cost of Settlement For Imbalance Energy

An adjustment for settlement costs paid by SCE to the ISO for imbalance energy shall be included in the hourly Procured Energy Cost. On the trading day on which energy consumption occurs ("transaction date"), or as soon as practicable thereafter, a per kWh adjustment amount will be calculated for each hour, based on actual prices and estimated volumes for imbalance energy. Imbalance energy estimates will be based on native load requirements net of available retained generation and energy purchased under power purchase contracts by the hour. This estimated settlement for imbalance energy, on an hourly basis, will be included in the hourly Procured Energy Cost. (C)  
(C)  
(C)

Approximately 60 days following the transaction date, a per kWh adjustment amount will be calculated based on actual settlement information provided by the ISO for the transaction date. The settlement information will be used to re-calculate the weighted average price for each hour on the transaction date. The adjustment for each hour will be calculated by subtracting the weighted average prices determined using estimated settlement data for imbalance energy from the weighted average price calculated using actual settlement costs. (C)  
(C)  
(C)

c. Adjustment For Uplift Charges

An adjustment for uplift charges shall be included in the hourly Procured Energy Cost. Uplift charges shall include charges for ancillary services, administrative fees, congestion fees, subscription fees, and any additional charges not included in the charges described in Section 1.a and 1.b above that are paid to the ISO by SCE for imbalance energy purchased on behalf of SCE Bundled Service Customers that are similar in nature to charges paid by Scheduling Coordinators on behalf of Direct Access Customers. (C)  
(C)  
(C)

To the extent there are uplift charges anticipated that are not available at the time energy prices are calculated, an hourly estimate of these uplift charges shall be calculated on or as soon as practicable after the transaction date using actual unit prices and estimated volumes. For uplift charges that are assessed on an hourly basis, the estimated hourly uplift charge shall be calculated by dividing the estimated forecast for uplift amount for each hour on the transaction date by the total kWh forecast for that hour. For uplift charges that are assessed on a non-hourly basis, the estimated hourly uplift charge shall be calculated by dividing the estimated uplift amount charged to SCE by the total kWh purchased in the period. (C)  
(C)

(D)

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Schedule PE  
PROCURED ENERGY

Sheet 3 (C)  
(C)

(Continued)

RATES (Continued)

1. Procured Energy Cost (Continued) (C)

c. Adjustment For Uplift Charges (Continued)

Approximately 60 days following the transaction date, an hourly adjustment for uplift charges shall be calculated based on actual unit prices and purchase volumes. The adjustment for each hour will be calculated by subtracting the hourly estimates developed on or after the transaction date from the actual uplift amounts charged to SCE by the ISO. (C)

2. Averaged Procured Energy Charge or Procured Energy Credit (C)

a. Non-Time-of-Use Rate Schedules

The amount of the Averaged Procured Energy Charge for SCE Bundled Service Customers and Averaged Procured Energy Credit for Direct Access Customers shall be the rate group average Energy Cost multiplied by the customer's metered kWh during the billing period or, for unmetered service, by the monthly kWh shown in the applicable rate schedule. In accordance with Section 367.7 of the Public Utilities Code, between January 1, 2000 and June 30, 2000, Direct Access Customers with meters capable of recording hourly data may make a one time election to have their Procured Energy Credit calculated using actual hourly data. If a Direct Access Customer installs such a meter after June 30, 2000 the customer's Procured Energy Credit shall use the actual hourly data rather than the average customer class load profile calculation. For these customers, the Procured Energy Credit shall be the sum of the hourly Energy Factor, which is the product of the hourly procured energy cost, the hourly line loss Adjustment Factors as set forth in Section 3 below for the applicable service voltage, and the uncollectibles expense factor of 1.00313, multiplied by the customer's actual hourly usage. The Average Procured Energy Credit is the Procured Energy Credit divided by the total kWh usage during the billing period. (C)

The rate group average Procured Energy Cost for the billing period is the sum of the products of the hourly Procured Energy Cost determined as described in Section 1 above, and the hourly load percentages from SCE's Statistical Load Profile for the applicable rate group, and the hourly Line Loss Adjustment Factors determined as set forth in Section 3 below for the applicable service voltage and the uncollectibles expense factor of 1.00313. This average Procured Energy Cost is calculated on a weekly basis using all calendar weeks from the time of the customer's previous billing through the calendar week prior to the current billing. For purposes of this calculation, calendar week shall be defined as the seven day period beginning on Wednesday and ending on the following Tuesday. The average Procured Energy Cost is calculated each Sunday and is utilized for all billing executed through the following Saturday. In the event of a seasonal change, the average Procured Energy Cost as described above will be recalculated daily until a full week of price data for the new season is available. (C)

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Schedule PE  
PROCURE ENERGY

Sheet 4 (C)  
 (C)

(Continued)

RATES (Continued)

2. Averaged Procured Energy Charge or Procured Energy Credit (Continued) (C)

b. Time-of-Use Rate Schedules

The amount of the Averaged Procured Energy Charge for SCE Bundled Service Customers and Averaged Procured Energy Credit for Direct Access Customers shall be the sum of the products of the rate group average Procured Energy Cost in each time-of-use period as defined in the applicable rate schedule and the customer's metered kWh in each time-of-use period during the billing period. In accordance with Section 367.7 of the Public Utilities Code, between January 1, 2000 and June 30, 2000, Direct Access Customers with meters capable of recording hourly data may make a one time election to have their Procured Energy Credit calculated using actual hourly data. If a Direct Access Customer installs such a meter after June 30, 2000 the customer's Procured Energy Credit shall use the actual hourly data rather than the average customer class load profile calculation. For these customers, the Procured Energy Credit shall be the sum of the hourly Energy Factor, which is the product of the hourly procured energy cost, the hourly line loss Adjustment Factors as set forth in Section 3 below for the applicable service voltage, and the uncollectibles expense factor of 1.00313, multiplied by the customer's actual hourly usage. The Averaged Procured Energy Credit is the Procured Energy Credit divided by the total kWh usage during the billing period. (C)

The rate group average Procured Energy Cost for each time-of-use period is the sum of the products of the hourly Procured Energy Cost determined as described in Section 1 above, the hourly load percentages from SCE's Statistical Load Profile for the applicable rate group, and the hourly Line Loss Adjustment Factors determined as set forth in Section 3 below for the applicable service voltage and the uncollectibles expense factor of 1.00313. The average Procured Energy Costs are calculated on a weekly basis using all calendar weeks from the time of the customer's previous billing through the calendar week prior to the current billing. For purposes of this calculation, calendar week shall be defined as the seven day period beginning on Wednesday and ending the following Tuesday. The average Procured Energy Cost is calculated each Sunday and is utilized for all billing executed through the following Saturday. In the event of a seasonal change, the average Procured Energy Cost as described above will be recalculated daily until a full week of price data for the new season is available. (C)

3. Distribution Line Loss Adjustment Factors

a. Adjustments

Distribution Line Loss Adjustment Factors shall be calculated on an hourly basis for each service voltage. The day-ahead hourly forecast of total system load in megawatts (Loadh), as determined by SCE, shall be used in the calculation of the Distribution Line Loss Adjustment Factors:

Service metered and delivered at voltages greater than 50 kV:  
 Loss Factor =  
 $1 + [(14.3 / \text{Loadh}) + (0.000000495 * \text{Loadh}) + 0.00497]$

Service metered and delivered at voltages between 2kV and 50kV:  
 Loss Factor =  
 $1 + [(20.3 / \text{Loadh}) + (0.00000267 * \text{Loadh}) + 0.00979]$

Service metered and delivered at voltages below 2kV:  
 Loss Factor =  
 $1 + [(87.4 / \text{Loadh}) + (0.00000452 * \text{Loadh}) + 0.00642]$

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Schedule PE  
PROCURED ENERGY

(Continued)

RATES (Continued)

3. Distribution Line Loss Adjustment Factors (Continued)

b. Hourly loss factors for the following day will be accessible according to the procedures as outlined in the Retail Settlements and Information Flows Supplemental Report filed August 15, 1997, with the Commission.

4. Competition Transition Charge (CTC)

The CTC is the sum of the following rates under the applicable tariff multiplied by the customer's billing determinants:

- a. The Generation portion of the Customer Charge for the applicable tariff as set forth in the Rate Components Section of such Tariff, if applicable;
- b. The Generation portion of the per kW monthly Demand Charges for the applicable tariff as set forth in the Rate Components Section of such Tariff, if applicable;
- c.. The CTC portion of the per kWh Energy Charge which is calculated by subtracting the average Procured Energy Charge determined in accordance with Schedule PE from the Generation portion of the per kWh Energy Charge for the applicable tariff as set forth in the Rate Components Section of such tariff, for each Time-of-Use period, if applicable; (C)
- d. The Generation portion of all other charges for the applicable tariff as set forth in the Rate Components Section of such tariff, if applicable.

SPECIAL CONDITIONS

- 1. Billing: A Customer's bill is first calculated according to the total rates and conditions of the customer's applicable rate schedule. The following adjustments are made depending on the option applicable to the customer.
  - a. Bundled Service Customers receive supply and delivery services solely from SCE. The Customer's bill is based on the total rates set forth in the customer's applicable rate schedule. The Procured Energy (supply) component is equal to the Averaged Procured Energy Charge as set forth in Section 2 above. (C)  
(C)
  - b. Direct Access Customers purchase energy from an Energy Service Provider and continue receiving delivery services from SCE. The Averaged Procured Energy Charge is determined as specified for a Bundled Service Customer. The bill will be calculated as for a Bundled Service Customer, but the Customer will receive a credit for the Averaged Procured Energy Charge. In accordance with Section 367.7 of the Public Utilities Code, between January 1, 2000 and June 30, 2000, Direct Access Customers with meters capable of recording hourly data may make a one time election to have their Procured Energy Credit calculated using actual hourly data. If a Direct Access Customer installs such a meter after June 30, 2000 the customer's Procured Energy Credit shall be based on the actual hourly data rather than the Averaged Procured Energy Charge. (C)  
(C)

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Schedule PE  
PROCURED ENERGY

Sheet 6 (C)  
(C)

(Continued)

SPECIAL CONDITIONS (Continued)

1. Billing: (Continued)
  - c. Hourly Procured Energy Pricing Option Customers receive supply and delivery services solely from SCE. A Customer taking Hourly Procured Energy Pricing Option service must have an interval meter installed at its premise to record hourly usage, since Procured Energy Costs change hourly. If such metering is not currently installed, it shall be installed at the Customer's expense before Hourly Procured Energy Pricing can be provided. SCE's charges for such metering are determined as set forth in Rule 2. The bill for a Hourly Pricing Option Customer is determined by calculating the bill as if it were a Bundled Service Customer, then crediting the bill by the amount of the Averaged Procured Energy Charge, as determined for Bundled Service and Direct Access Customers, then adding the hourly Procured Energy Cost amount which is determined by multiplying the hourly energy used in the billing period by the hourly procured energy cost as set forth in Section 1 above, and the appropriate hourly Line Loss Adjustment Factor as set forth in Section 3, and the uncollectibles expense factor of 1.00313. (C)
  
2. Generation Charge: The generation charge is calculated based on the total rate less the sum of: Distribution, Transmission, Public Purpose Programs, Nuclear Decommissioning, and Fixed Transition Amount (where applicable) charges, the transmission Revenue Balancing Account Adjustment (TRBAA), and the Public Utilities Commission Reimbursement Fee. The Competition Transition Charge (CTC) is calculated residually by subtracting the Averaged Procured Energy Charge as calculated as set forth in Schedule PE from the generation charge (See Rate Component Table of the applicable rate schedule). (C)
  
3. Negotiating of CTC Payment Method: Nothing in this rate schedule prohibits a marketer or broker from negotiating with Customers the method by which their Customer will pay the CTC.

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Estimated Generation Costs of SCE Owned Assets  
Assumes Retention of All Assets @ Book Value

**2001**

Costs (\$)	(\$000)		
	Operating	Capital	Total
SONGS	544,569	85,634	630,203
PV	86,600	46,762	133,362
Four Corners	89,890	23,905	113,795
Mohave	115,758	19,664	135,422
Hydro	53,204	70,491	123,695
	890,021	246,456	1,136,477

	GWh	\$/MWh		
		SONGS	Other	Total
SONGS	12,635	43.10	6.78	49.88
PV	4,531	19.11	10.32	29.43
Four Corners	4,823	18.64	4.96	23.59
Mohave	5,480	21.12	3.59	24.71
Hydro	4,842	10.99	14.56	25.55
Total	32,311	27.55	7.63	<b>35.17</b>

**NOTES:**

Operating Costs:

SONGS - Current ICIP Tariffed rate (\$43.10/MWh) for 2001

All Other (PV, Four Corners, Mohave and Hydro) - Estimated 2001 O&M expenses

Capital Costs Revenue Requirement (Includes recovery of plant-in-service @ 12/31/00  
book value, return and taxes)

	Book Value @ 12/31/00	Remaining Life	Rate of Return
SONGS	405,318	13	9.49%
PV	241,775	20	9.49%
Four Corners	117,023	15	9.49%
Mohave	79,194	16	9.49%
Hydro	484,532	40	9.92%
	1,327,842		