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Docket 07-OllP-01\_GHG: Reply Comments of Southern California Edison Company

(U 338-E) on the Interim Opinion on Reporting and Tracking of Greenhouse Gas Emissions in the

**Electricity Sector** 

Attachments:

07-OIIP-01 GHG - SCE Reply Comments on Reporting PD.pdf

To the California Energy Commission's Docket Unit:

Attached please find in PDF format "Reply Comments of Southern California Edison Company (U 338-E) on on the Interim Opinion on Reporting and Tracking of Greenhouse Gas Emissions in the Electricity Sector, in CEC Docket No. 07-OIIP-01". This document is being electronically served with the California Energy Commission's (CEC's) Docket Office today, August 30, 2007.

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(See attached file: 07-OIIP-01 GHG - SCE Reply Comments on Reporting PD.pdf)

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Thank you and Regards.

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

Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework and to Examine the Integration of Greenhouse Gas Emissions Standards Into Procurement Policies.	) ) ) _)	R.06-04-009
In The Matter Of,	)	Docket 07-OIIP-01
AB 32 Implementation – Greenhouse Gas Emissions.	) ) )	Don't of Oil of

# REPLY COMMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) ON THE INTERIM OPINION ON REPORTING AND TRACKING OF GREENHOUSE GAS EMISSIONS IN THE ELECTRICITY SECTOR

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

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# REPLY COMMENTS OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) ON THE INTERIM OPINION ON REPORTING AND TRACKING OF GREENHOUSE GAS EMISSIONS IN THE ELECTRICITY SECTOR

Pursuant to Rules 14.3 and 14.6 of the Rules of Practice and Procedure of the California Public Utilities Commission ("CPUC"), Southern California Edison Company ("SCE") submits these comments in response to issues raised by parties responding to the proposed decision, Interim Opinion on Reporting and Tracking of Greenhouse Gas Emissions in the Electricity Sector, issued on August 15, 2007 ("PD"). In addition to the changes suggested by SCE in its opening comments, SCE urges the CPUC to consider the revisions suggested herein, which address the complexity of the PD's protocols regarding "null power" and recognize the actual emissions of resources used to "firm" intermittent renewable resources and substitute power.

# THE PD'S PROPOSED TREATMENT OF "NULL POWER" INCREASES THE COMPLEXITY OF THE REPORTING PROTOCOLS AND IMPLEMENTATION OF ASSEMBLY BILL 32

The Sacramento Municipal Utility District ("SMUD") endorses the PD's proposed treatment of "null power" associated with renewable energy production that has been "stripped" of its renewable attributes. As set forth in the PD, "null power" will be accounted for by a "geographic emissions factor." Because the best available emissions information for "null power" is known, there is no reason for assigning an arbitrary geographic emissions factor to "null power." SMUD's agreement with the PD ignores this as well as the increased complexity created by the proposed protocol.

To avoid the arbitrariness of a "geographic emissions factor" and the complexity of the proposed protocol, the CPUC should unbundle Renewable Energy Credits ("RECs") without modifying the greenhouse gas ("GHG") emissions of the renewable generation. It should also refuse to develop an environmental attribute that accompanies the REC and captures a lack of emissions from renewable resources.

The simplest way to handle unbundled RECs is to recognize that "null power" no longer carries a renewable attribute, and is thus "null" from the perspective of renewable attributes. The protocol should not, as SMUD suggests and the PD endorses, create an attribute to assign to the REC and then attribute emissions to energy produced without these emissions. As described below, such a proposal unnecessarily complicates the market.

The proposed protocol complicates the market because it requires that the REC—created when a renewable generator unbundles and sells such a REC separately from the energy—embody a GHG offset value equal to the default geographic emissions factor proposed by the PD

Sacramento Municipal Utility District's Comments on the Proposed Reporting and Tracking Protocol, filed August 24, 2007 ("SMUD Comments"), at 9.

for the remaining "null power." Under this approach, a REC buyer and an energy buyer can be separate entities, however, the sum total of GHG attributes for the "null power" and the GHG offset value of the REC must be zero. Any other approach (e.g., one that does not allow the REC to offset GHG emissions even when the "null power" is attributed a geographical default emissions factor), will artificially add GHG emissions to the overall inventory, a situation that is contrary to the intent of Assembly Bill ("AB") 32.

Nevertheless, if the CPUC allows RECs to act as offsets equivalent to the GHG emissions attributed to the "null power"—with the "null power" then representing a separate GHG obligation based on a default geographic emissions factor when such "null power" is sold or consumed on site—the approach exponentially complicates any reporting and tracking program designed to implement AB 32. For example, entities will separately need to track whether the RECs associated with power produced by a renewable generator have been sold. This step will expand the reporting burden imposed by the PD to those entities who produce renewable power for on-site consumption. It may also complicate the GHG attribution of power produced in California for export.

Additionally, since the same REC will be used for compliance with the CPUC's renewable portfolio standard ("RPS") requirement as well as for the California Air Resource Board's GHG reduction requirement, it is unclear how a reporting and tracking mechanism can be developed that will allow entities who purchase RECs to report and retire them separately, at two different venues, under two different sets of regulatory requirements. Using the same REC for these separate requirements also creates additional complications if the REC buyer only needs the REC for one of the compliance requirements (e.g., RPS requirement) and wants to sell the other attribute (e.g., GHG offset value) to some other entity in order to monetize the entire value of the REC. Such secondary unbundled REC sales will result in additional complications for GHG reporting and tracking.

Notably, the issue of null power is much more complicated under a load-based approach to a cap-and-trade system, where the retail provider has the GHG compliance obligation and is

accountable for the GHG associated with the power it generates or purchases, as well as the RPS compliance obligation. Under the First Seller approach, the issue of "null power" is easier to address. Since the point of regulation in such a program is the first seller, and since the RECs are purchased by retail providers for RPS compliance only (and not for GHG compliance), it is conceivable to let the renewable generator (*i.e.*, first seller) retain its inherent GHG profile even after the RECs are unbundled and sold. In other words, the REC seller, who is also the point of regulation for GHG compliance, will not sell the GHG attribute via the REC. As a result "null power" is not created from a GHG perspective. The first seller renewable generator will have the AB 32 compliance obligation for its energy output based on its actual underlying GHG footprint, and there is no need to assign a default geographic emissions factor to this energy.

II.

# FIRMING POWER FROM RENEWABLES AND SUBSTITUTE POWER SHOULD BE ATTRIBUTED ACTUAL EMISSIONS RATES

Various parties assert that the emissions characteristics of renewable resources should not be attributed to firming power, which backs up such renewable resources.<sup>2</sup> SCE agrees. In addition to the reason provided by DRA for rejecting such a rule,<sup>3</sup> SCE urges the CPUC to reject the rule because it could lead to different emissions reporting for firming power based on the type of contract a load-serving entity ("LSE") has with a counterparty.

Each LSE must structure its portfolio in a manner that assures sufficient energy is available to serve its load in all hours of the year. An LSE that fails to do so can be subjected to unreasonable exposure to price volatility and potential reliability considerations. For these reasons, LSEs that procure renewable resources (or any resource that is subject to unanticipated outages) must appropriately plan for such events. Some LSEs do this by contracting with a

See Comments Of The Division Of Ratepayer Advocates On The Proposed Interim Opinion On Reporting And Tracking of Greenhouse Gas Emissions in the Electricity Sector, filed August 24, 2007 ("DRA Comments"), at 2-3.

 $<sup>\</sup>frac{3}{2}$  DRA Comments at 3.

counterparty that can provide both the primary and an alternative supply (so called "firming" power) in the event that its primary resource is not available (due to intermittency of the resource or outage, ramping, start-up, etc. of the primary unit).<sup>4</sup> Other LSEs contract with multiple counterparties to obtain a resource mix, which provides various options in the event that an intermittent resource become unavailable or should a unit experience an outage.

As various parties recognize, the PD will treat these means of accomplishing the same goal differently with respect to GHG emissions. If a firming contract exists, then the GHG of the alternative supply would be counted at the unit specific GHG profile of the primary source (i.e., if the contract was for a wind resource, but was firmed by a gas fired plant, the operation of the gas fired plant would result in the GHG profile of the wind generator). If on the other hand, the LSE has developed a portfolio that is sufficiently diverse, but does not contain a firming contract, the same scenario will result in the attribution of GHG emissions based upon the profile of the resource that actually operates.

The CPUC has not asserted any reason for the inequitable treatment of such resources. This omission is significant because the rule will lead to disparate treatment of similarly situated LSEs, rendering some ratepayers more adversely affected than others under the same CPUC rules. For this reason, the CPUC should impose reporting requirements for firming power that are based, to the greatest extent possible, on actual emissions rates.

In the event the CPUC does not require reporting of emissions based on actual unit output, regardless of whether such production was pursuant to a firming contract, then the CPUC must put reasonable limits in place for such firming services. The PD suggests limiting one form of "firming" (i.e., substitute power) to "15% of the forecasted energy production of the specified

While "firming" contracts typically allow the firming of intermittent renewable resources with dispatchable thermal resources, contracts may also "firm" one thermal resource with a different resource to provide energy during unanticipated outages, ramping, start-up, etc. The latter, a form of "firming," is referred to as "substitute" energy by the PD.

See PD at 22-23; Comments of San Diego Gas & Electric Company and Southern California Gas Company on Proposed Interim Opinion on Reporting and Tracking of Greenhouse Gas Emissions in the Electricity Sector, filed August 24, 2007, at 5-6.

power plant over the term of the contract, provided that the contract only permits the seller to purchase system energy for substitute power." Additionally firming for renewable resources is limited to "the total expected contracted-for output of the specified renewable power plant for the life of the contract." Neither of these limits is meaningful to the issue of accurate accounting for California's GHG purposes.

For example, an entity could sign a contract with a wind resource with an average capacity factor of 35% while the contract allows firming up to a capacity factor of 65%. In this case, 30% of the output from this contract would come from resources whose GHG emissions are not equal to the emissions from a wind generator. If, for example, an entity contracted with a 100 MW wind resource, and if the firming resource was California system power, this could result in an understatement of CO<sub>2</sub> emissions in excess of 125,000 metric tons per year (100 MW x 30% X 8,760 hours/year x (1,075 Lbs/MW ÷ 2,000 Lbs/Ton) x .9072 (conversion factor from short tons to metric tons). Similarly, substitute power is limited to 15% of the forecasted energy. However, there is no restriction on the amount of "forecasted energy." If such incentives were widely exploited, the impact of unaccounted for GHG could be significant. For this reason, the CPUC must revise its protocols regarding limits on "firming" resources.

### III.

### **CONCLUSION**

For the reasons set forth above and in SCE's opening comments on the PD, SCE urges the CPUC to revise the PD in a manner that:

- Applies the "Marketer Reporting Protocol" to all purchasing/selling entities and not just to "marketers";
- Allows for reevaluation of the protocols once the approach to GHG regulation has been determined;

 $<sup>\</sup>frac{6}{}$  See PD at 23

See PD at 22

- Recognizes that default emissions factors should not be used for any purchases from specified sources;
- Accounts for purchases and sales caused by the CAISO, but attributed to reporting entities;
- Reject the PD's provisions regarding the treatment of "null power"; and
- Attribute actual emissions rates for resources used to "firm" renewables and substitute power.

## Respectfully submitted,

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August 30, 2007

### **CERTIFICATE OF SERVICE**

I hereby certify that, pursuant to the Commissioner's Rules of Practice and Procedure, I have this day served a true copy of Reply Comments of Southern California Edison Company (U 338-E) on the Interim Opinion on Reporting and Tracking of Greenhouse Gas Emissions in the Electricity Sector on all parties identified in the attached service list(s).

Transmitting the copies via e-mail to all parties who have provided an e-mail address.

First class mail will be used if electronic service cannot be effectuated.

Executed this 30th day of August, 2007, at Rosemead, California.

/S/ RAQUEL IPPOLITI
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DANIEL W. DOUGLASS ATTORNEY AT LAW DOUGLASS & LIDDELL 21700 OXNARD STREET, SUITE 1030 WOODLAND HILLS, CA 91367 R.08-04-009 JASON DUBCHAK ASSOCIATE GENERAL COUNSEL WILD GOOSE STORAGE, LLC 607 8TH AVENUE S.W. CALGARY, AB T2P OA7 CANADA R.06-04-009

KIRBY DUSEL NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670 R.06-04-009

PIERRE H. DUVAIR CALIFORNIA ENERGY COMMISSION 1516 NINTH STREET, MS-41 SACRAMENTO, CA 95814 R.06-04-009 HARVEY EDER PUBLIC SOLAR POWER COALITION 1218 12TH ST., 25 SANTA MONICA, CA 90401 R.08-04-009

KAREN EDSON 151 BLUE RAVINE ROAD FOLSOM, CA 95630 R.06-04-009

DENNIS M.P. EHLING KIRKPATRICK & LOCKHART NICHOLSON GRAHAM 10100 SANTA MONICA BLVD., 7TH FLOOR LOS ANGELES, CA 90067 R.08-04-009

SHAUN ELLIS 2183 UNION STREET SAN FRANCISCO, CA 94123 R.06-04-009 SANDRA ELY NEW MEXICO ENVIRONMENT DEPARTMENT 1190 ST FRANCIS DRIVE SANTA FE, NM 87501 R.06-04-009

NADAV ENBAR ENERGY INSIGHTS 1750 14TH STREET, SUITE 200 BOULDER, CO 80302 R.06-04-009 STEVE ENDO DEPARTMENT OF WATER & POWER 150 S LOS ROBLES AVE., STE. 200 PASADENA, CA 91101 R.06-04-009 SAEED FARROKHPAY FEDERAL ENERGY REGULATORY COMMISSION 110 BLUE RAVINE RD., SUITE 107 FOLSOM, CA 95630 R.06-04-009

DIANE I. FELLMAN ATTORNEY AT LAW LAW OFFICES OF DIANE I. FELLMAN 234 VAN NESS AVENUE SAN FRANCISCO, CA 94102 R.06-04-009 Julie A Fitch
CALIF PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
EXECUTIVE DIVISION ROOM 5203
SAN FRANCISCO, CA 94102-3214
R06-04-009

MICHEL FLORIO ATTORNEYS AT LAW THE UTILITY REFORM NETWORK (TURN) 711 VAN NESS AVE., STE. 350 SAN FRANCISCO, CA 94102 R.08-04-009

Thursday, August 30, 2007

RYAN FLYNN PACIFICORP 825 NE MULTNOMAH STREET, 18TH FLOOR PORTLAND, OR 97232 R.08-04-008 Jamie Fordyce CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE AREA 5-B SAN FRANCISCO, CA 94102-3214 ORLANDO B. FOOTE, III ATTORNEY AT LAW HORTON, KNOX, CARTER & FOOTE 895 BROADWAY, SUITE 101 EL CENTRO, CA 92243 R.06-04-009

JONATHAN FORRESTER PG&E PO BOX 770000 SAN FRANCISCO, CA 94177 R.08-04-009 KEVIN FOX WILSON SONSINI GOODRICH & ROSATI ONE MARKET STREET, SPEAR TOWER, 3300 SAN FRANCISCO, CA 94105 R.08-04-009 NORMAN J. FURUTA ATTORNEY AT LAW FEDERAL EXECUTIVE AGENCIES 1455 MARKET ST., SUITE 1744 SAN FRANCISCO, CA 94103-1399 R.06-04-009

MICHELLE GARCIA AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 95814 R.08-04-009 LAURA I. GENAO ATTORNEY SOUTHERN CALIFORNIA EDISON 2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770 ROS-04-009

FIJI GEORGE EL PASO CORPORATION PO BOX 2511 HOUSTON, TX 77252 R.06-04-009

Anne Gillette CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE AREA 4-A SAN FRANCISCO, CA 94102-3214 R.06-04-009 ANNETTE GILLIAM SCE LAW DEPARTMENT SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770 R.06-04-009 JULIE GILL EXTERNAL AFFAIRS MANAGER CALIFORNIA INDEPENDENT SYSTEM OPERATOR 151 BLUE RAVINE ROAD FOLSOM, CA 95630 R.06-04-009

Meg Gottstein CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 2106 SAN FRANCISCO, CA 94102-3214 R06-04-009

HOWARD V. GOLUB NIXON PEABODY LLP 2 EMBARCADERO CENTER, STE. 2700 SAN FRANCISCO, CA 94111 R.06-04-009 HAYLEY GOODSON ATTORNEY AT LAW THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102 R.05-04-009

MEG GOTTSTEIN ADMINISTRATIVE LAW JUDGE PO BOX 210/21496 NATIONAL STREET VOLCANO, CA 95689 R.08-04-009 Jacqueline Greig CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4102 SAN FRANCISCO, CA 94102-3214 R.06-04-009 JEFFREY P. GRAY ATTORNEY AT LAW DAVIS WRIGHT TREMAINE, LLP 505 MONTGOMERY STREET, SUITE 800 SAN FRANCISCO, CA 94111-6533 R.08-04-009

Thursday, August 30, 2007

KRISTIN GRENFELL PROJECT ATTORNEY, CALIF. ENERGY PROGRAM NATURAL RESOURCES DEFENSE COUNCIL 111 SUTTER STREET, 20TH FLOOR SAN FRANCISCO, CA 94104 R.06-04-009

KAREN GRIFFIN EXECUTIVE OFFICE CALIFORNIA ENERGY COMMISSION 1516 9TH STREET, MS 39 SACRAMENTO, CA 95814 R.06-04-009 ANN G. GRIMALDI MCKENNA LONG & ALDRIDGE LLP 101 CALIFORNIA STREET, 41ST FLOOR Center for Energy and Economic Development SAN FRANCISCO, CA 94111 R.06-04-009

YVONNE GROSS REGULATORY POLICY MANAGER SEMPRA ENERGY 101 ASH STREET SAN DIEGO, CA 92103 R.06-04-008

ELSTON K. GRUBAUGH IMPERIAL IRRIGATION DISTRICT 333 EAST BARIONI BLVD. IMPERIAL, CA 92251 R08-04-009 ELIZABETH W. HADLEY CITY OF REDDING 777 CYPRESS AVENUE REDDING, CA 96001 R.06-04-009

JEFFREY L. HAHN COVANTA ENERGY CORPORATION 876 MT. VIEW DRIVE LAFAYETTE, CA 94549 R.06-04-009 TOM HAMILTON MANAGING PARTNER ENERGY CONCIERGE SERVICES 321 MESA LILA RD GLENDALE, CA 91208 R.08-04-009

PETER W. HANSCHEN ATTORNEY AT LAW MORRISON & FOERSTER, LLP 101 YGNACIO VALLEY ROAD, SUITE 450 WALNUT CREEK, CA 94596 R.06-04-009

ANDREW L. HARRIS PACIFIC GAS & ELECTRIC COMPANY PO BOX 770000 SAN FRANCISCO, CA 94177 R.08-04-009 ARNO HARRIS RECURRENT ENERGY, INC. 220 HALLECK ST., SUITE 220 SAN FRANCISCSO, CA 94129 R08-04-009 JEFFERY D. HARRIS ATTORNEY AT LAW ELLISON, SCHNEIDER & HARRIS LLP 2015 H STREET SACRAMENTO, CA 95814 R.06-04-009

AUDRA HARTMANN DYNEGY, INC. 980 NINTH STREET, SUITE 2130 SACRAMENTO, CA 95614 R.08-04-009 ANITA HART SENIOR SPECIALIST/STATE REGULATORYAFFAIR SOUTHWEST GAS CORPORATION 5241 SPRING MOUNTAIN ROAD LAS VEGAS, NV 89193 R.06-04-009

KERRY HATTEVIK MIRANT CORPORATION 696 WEST 10TH STREET PITTSBURG, CA 94565 R.06-04-009

LYNN HAUG ELLISON, SCHNEIDER & HARRIS, LLP 2015 H STREET SACRAMENTO, CA 95816 R.06-04-009 MARCEL HAWIGER ATTORNEY AT LAW THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102 R.08-04-009

DAN HECHT SEMPRA ENERGY 101 ASH STREET SAN DIEGO, CA 92101 R.08-04-009

Thursday, August 30, 2007

RICHARD HELGESON SOUTHERN CALIFORNIA PUBLIC POWER AUTHORI 225 S. LAKE AVE., SUITE 1250 PASADENA, CA 91101 R.08-04-009 TIM HEMIG DIRECTOR NRG ENERGY, INC. 1819 ASTON AVENUE, SUITE 105 CARLSBAD, CA 92008 R.08-04-009

JOSEPH HENRI 31 MIRAMONTE ROAD WALNUT CREEK, CA 94597 R.06-04-009

CHRISTOPHER A. HILEN ASSISTANT GENERAL COUNSEL SIERRA PACIFIC POWER COMPANY 6100 NEIL ROAD RENO, NV 89511 R.06-04-009

DENISE HILL DIRECTOR 4004 KRUSE WAY PLACE, SUITE 150 LAKE OSWEGO, OR 97035 R.08-04-009 SETH HILTON ATTORNEY AT LAW STOEL RIVES 111 SUTTER ST., SUITE 700 SAN FRANCISCO, CA 94104 R.08-04-009

GARY HINNERS RELIANT ENERGY, INC. PO BOX 148 HOUSTON, TX 77001-0148 R.05-04-009 ALDYN HOEKSTRA PACE GLOBAL ENERGY SERVICES 420 WEST BROADWAY, 4TH FLOOR SAN DIEGO, CA 92101 R.08-04-009 J. ANDREW HOERNER REDEFINING PROGRESS 1904 FRANKLIN STREET OAKLAND, CA 94612 R.08-04-009

GEORGE HOPLEY BARCLAYS CAPITAL 200 PARK AVENUE NEW YORK, NY 10166 R06-04-009 RANDY S. HOWARD LOS ANGELES DEPT. OF WATER AND POWER 111 NORTH HOPE STREET, ROOM 921 LOS ANGELES, CA 90012 R.05-04-009 DAVID L. HUARD ATTORNEY AT LAW MANATT, PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BOULEVARD LOS ANGELES, CA 90064 R.06-04-009

JOHN P HUGHES MANAGER, REGULATORY AFFAIRS SOUTHERN CALIFORNIA EDISON COMPANY 601 VAN NESS AVENUE, STE. 2040 SAN FRANCISCO, CA 94102 R.06-04-009

STEVEN HUHMAN MORGAN STANLEY CAPITAL GROUP INC. 2000 WESTCHESTER AVENUE PURCHASE, NY 10577 R.08-04-009 TAMLYN M. HUNT ENERGY PROGRAM DIRECTOR COMMUNITY ENVIRONMENTAL COUNCIL 26 W. ANAPAMU ST., 2/F SANTA BARBARA, CA 93101 R.06-04-009

CAROL J. HURLOCK CALIFORNIA DEPT. OF WATER RESOURCES 3310 EL CAMINO AVE. RM 300 SACRAMENTO, CA 95821 R06-04-009 MICHAEL A. HYAMS
POWER ENTERPRISE-REGULATORY
AFFAIRS
SAN FRANCISCO PUBLIC UTILITIES COMM
1155 MARKET ST., 4TH FLOOR
SAN FRANCISCO, CA 94103
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Judith Ikle CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4012 SAN FRANCISCO, CA 94102-3214 R.06-04-009

Thursday, August 30, 2007

AKBAR JAZAYEIRI DIRECTOR OF REVENUE & TARRIFFS SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVE. ROOM 390 ROSEMEAD, CA 91770 R.08-04-009

PETER JAZAYERI STROOCK & STROOCK & LAVAN LLP 2029 CENTURY PARK EAST, SUITE 1800 LOS ANGELES, CA 90067 R 08444009 BRUNO JEIDER BURBANK WATER & POWER 164 WEST MAGNOLIA BLVD. BURBANK, CA 91502 R.06-04-009

JOHN JENSEN PRESIDENT MOUNTAIN UTILITIES PO BOX. 205 PO BOX. 205 KIRKWOOD, CA 95646 R.06-04-009

LEILANI JOHNSON KOWAL LOS ANGELES DEPT. OF WATER AND POWER 111 N. HOPE STREET, ROOM 1050 LOS ANGELES, CA 90012 R.08-04-009

BRIAN M. JONES M.J. BRADLEY & ASSOCIATES, INC. 47 JUNCTION SQUARE DRIVE CONCORD, MA 1742 R.06-04-009

MARC D. JOSEPH ADAMS BRADWELL JOSEPH & CARDOZO 601 GATEWAY BLVD., STE. 1000 SOUTH SAN FRANCISCO, CA 94080 R.08-04-009 Sara M. Kamins
CALIF PUBLIC UTILITIES COMMISSION
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EVELYN KAHL ATTORNEY AT LAW ALCANTAR & KAHL, LLP 120 MONTGOMERY STREET, SUITE 2200 SAN FRANCISCO, CA 94104 R.08-04-009

CATHY A. KARLSTAD SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVE. ROSEMEAD, CA 91770 R.08-04-009 JOSEPH M. KARP ATTORNEY AT LAW WINSTON & STRAWN LLP 101 CALIFORNIA STREET SAN FRANCISCO, CA 94111 R.06-04-009 SUE KATELEY EXECUTIVE DIRECTOR CALIFORNIA SOLAR ENERGY INDUSTRIES ASSN PO BOX 782 RIO VISTA, CA 94571 R.08-04-009

ADAM J KATZ MCDERMOTT WILL & EMERY LLP 600 13TH STREET, NW WASHINGTON, DC 20005 R.08-04-009 JAMES W. KEATING BP AMERICA, INC. 150 W. WARRENVILLE RD. NAPERVILLE, IL 60563 R.08-04-009 CURTIS L. KEBLER J. ARON & COMPANY 2121 AVENUE OF THE STARS LOS ANGELES, CA 90067 R.06-04-009

RANDALL W. KEEN ATTORNEY AT LAW MANATT PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BLVD. LOS ANGELES, CA 90064 R.06-04-009

CAROLYN M. KEHREIN ENERGY MANAGEMENT SERVICES 1505 DUNLAP COURT DIXON, CA 95620-4208 R.06-04-009 ALEXIA C KELLY THE CLIMATE TRUST 65 SW YAMHILL STREET, SUITE 400 PORTLAND, OR 97204 R.06-04-009

Thursday, August 30, 2007

STEVEN KELLY INDEPENDENT ENERGY PRODUCERS ASSN 1215 K STREET, SUITE 900 SACRAMENTO, CA 95814-3947 R.06-04-009 KHURSHID KHOJA ASSOCIATE THELEN REID BROWN RAYSMAN & STEINER 101 SECOND STREET, SUITE 1800 SAN FRANCISCO, CA 94105 R.08-04-009

KIM KIENER 504 CATALINA BLVD. SAN DIEGO, CA 92106 R.06-04-009

DANIEL A. KING SEMPRA ENERGY 101 ASH STREET, HQ 12 SAN DIEGO, CA 92101 R.06-04-009 GREGORY KLATT ATTORNEY AT LAW DOUGLASS & LIDDELL 411 E. HUNTINGTON DRIVE, STE. 107-356 ARCADIA, CA 91006 R.08-04-009

JOSEPH R. KLOBERDANZ SAN DIEGO GAS & ELECTRIC PO BOX 1831 SAN DIEGO, CA 92112 R.06-04-009

STEPHEN G. KOERNER, ESQ. EL PASO CORPORATION 2 NORTH NEVADA AVENUE COLORADO SPRINGS, CO 80903 R.06-04-009 GREGORY KOISER CONSTELLATION NEW ENERGY, INC. 350 SOUTH GRAND AVENUE, SUITE 3800 LOS ANGELES, CA 90071 R.08-04-009 AVIS KOWALEWSKI CALPINE CORPORATION 3875 HOPYARD ROAD, SUITE 345 PLEASANTON, CA 94588 R.06-04-009

CATHERINE M KRUPKA MCDERMOTT WILL AND EMERY LLP 600 THIRTEEN STREEET, NW WASHINGTON, DC 20005 R.06-04-009 LARS KVALE CENTER FOR RESOURCE SOLUTIONS PO BOX 39512 SAN FRANCISCO, CA 94129 R.06-04-009 Jonathan Lakritz CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5020 SAN FRANCISCO, CA 94102-3214 R.06-04-009

STEPHANIE LA SHAWN PACIFIC GAS AND ELECTRIC COMPANY PO BOX 770000, MAIL CODE B9A SAN FRANCISCO, CA 94177 R.08-04-009 GERALD L. LAHR ABAG POWER 101 EIGHTH STREET OAKLAND, CA 94607 R.06-04-009 MIKE LAMOND ALPINE NATURAL GAS OPERATING CO. #1 LLC PO BOX 550 VALLEY SPRINGS, CA 95252 R.06-04-009

JOHN LAUN APOGEE INTERACTIVE, INC. 1220 ROSECRANS ST., SUITE 308 SAN DIEGO, CA 92106 R.06-04-009 Diana L. Lee CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4300 SAN FRANCISCO, CA 94102-3214 R06-04-009

VITALY LEE AES ALAMITOS, LLC 690 N. STUDEBAKER ROAD LONG BEACH, CA 90803 R.06-04-009

Thursday, August 30, 2007

BRENDA LEMAY DIRECTOR HORIZON WIND ENERGY 1600 SHATTUCK, SUITE 222 BERKELEY, CA 94709 R.06-04-009

MAUREEN LENNON CALIFORNIA COGENERATION COUNCIL 595 EAST COLORADO BLVD., SUITE 623 PASADENA, CA 91101 R.08-04-009 NICHOLAS LENSSEN ENERGY INSIGHTS 1750 14TH STREET, SUITE 200 BOULDER, CO 80302 R.08-04-009

JOHN W. LESLIE ATTORNEY AT LAW LUCE, FORWARD, HAMILTON & SCRIPPS, LLP 11988 EL CAMINO REAL, SUITE 200 SAN DIEGO, CA 92130

DONALD C. LIDDELL, P.C. DOUGLASS & LIDDELL 2928 2ND AVENUE SAN DIEGO, CA 92103 R.08-04-009 KAREN LINDH LINDH & ASSOCIATES 7909 WALERGA ROAD, NO. 112, PMB119 ANTELOPE, CA 95843 R.08-04-009

STEVEN G. LINS CITY OF GLENDALE 613 EAST BROADWAY, SUITE 220 GLENDALE, CA 91206-4394 R.08-04-009 GRACE LIVINGSTON-NUNLEY ASSISTANT PROJECT MANAGER PACIFIC GAS AND ELECTRIC COMPANY PO BOX 770000 MAIL CODE B9A SAN FRANCISCO, CA 94177 R.06-04-009

James Loewen CALIF PUBLIC UTILITIES COMMISSION 320 WEST 4TH STREET SUITE 500 LOS ANGELES, CA 90013 R.06-04-009

BILL LOCKYER STATE ATTORNEY GENERAL STATE OF CALIFORNIA, DEPT OF JUSTICE PO BOX 944255 SACRAMENTO, CA 94244 R.08-04-009

JODY S. LONDON JODY LONDON CONSULTING PO BOX 3629 OAKLAND, CA 94609 R.08-04-009 LAD LORENZ V.P. REGULATORY AFFAIRS SOUTHERN CALIFORNIA GAS COMPANY 601 VAN NESS AVENUE, SUITE 2060 SAN FRANCISCO, CA 94102 R.08-04-008

BARRY LOVELL 15708 POMERADO RD., SUITE 203 POWAY, CA 92064 R06-04-009 BOB LUCAS LUCAS ADVOCATES 1121 L STREET, SUITE 407 SACRAMENTO, CA 95814 R.08-04-009 ED LUCHA
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PO BOX 770000, MAIL CODE B9A
SAN FRANCISCO, CA 94177
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LYNELLE LUND COMMERCE ENERGY, INC. 600 ANTON BLVD., SUITE 2000 COSTA MESA, CA 92626 R 06-04-009

Thursday, August 30, 2007

PHILIP D. LUSK
WESTERN ELECTRICITY COORDINATING
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SALT LAKE CITY, UT 84108-1262
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MARY LYNCH VP - REGULATORY AND LEGISLATIVE AFFAIRS CONSTELLATION ENERGY COMMODITIES GROUP 2377 GOLD MEDAL WAY, SUITE 100 GOLD RIVER, CA 95670 R.06-04-009

Jaclyn Marks CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5306 SAN FRANCISCO, CA 94102-3214 R.06-04-009

DOUGLAS MACMULLLEN CHIEF, POWER PLANNING SECTION CA DEPARTMENT OF WATER RESOURCES 3310 EL CAMINO AVE., ROOM 356 SACRAMENTO, CA 95821 R06-04-009 AMBER MAHONE ENERGY & ENVIRONMENTAL ECONOMICS, INC. 101 MONTGOMERY STREET, SUITE 1600 SAN FRANCISCO, CA 94104 R.06-04-009 ANNABELLE MALINS
CONSUL-SCIENCE AND TECHNOLOGY
BRITISH CONSULATE-GENERAL
ONE SANSOME STREET, SUITE 850
SAN FRANCISCO, CA 94104
R.06-04-009

DEREK MARKOLF CALIFORNIA CLIMATE ACTION REGISTRY 515 S. FLOWER STREET, SUITE 1640 LOS ANGELES, CA 90071 R.06-04-009

CHRIS MARNAY 1 CYCLOTRON RD MS 90R4000 BERKELEY, CA 94720-8136 R08-04-009 JULIE L. MARTIN WEST ISO COORDINATOR NORTH AMERICA GAS AND POWER 501 WESTLAKE PARK BLVD. HOUSTON, TX 77079 R.06-04-009

MARTIN A. MATTES NOSSAMAN GUTHNER KNOX & ELLIOTT, LLP 50 CALIFORNIA STREET, 34TH FLOOR SAN FRANCISCO, CA 94111 R.06-04-009

CHRISTOPHER J. MAYER MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354 R.06-04-009 MICHAEL MAZUR
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MANHATTAN BEACH, CA 90266
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CALIFORNIA CENTER FOR SUSTAINABLE
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SAN DIEGO, CA 92123
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THOMAS MCCABE EDISON MISSION ENERGY 18101 VON KARMAN AVE., SUITE 1700 IRVINE, CA 92612 R.06-04-009

RICHARD MCCANN PH.D M.CUBED 2655 PORTAGE BAY, SUITE 3 DAVIS, CA 95616 R.06-04-009 BARRY F. MCCARTHY ATTORNEY AT LAW MCCARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, SUITE 501 SAN JOSE, CA 95113 R.06-04-009 KEITH R. MCCREA ATTORNEY AT LAW SUTHERLAND, ASBILL & BRENNAN, LLP 1275 PENNSYLVANIA AVE., N.W. WASHINGTON, DC 20004-2415 R.08-04-009

Thursday, August 30, 2007

KAREN MCDONALD POWEREX CORPORATION 666 BURRAND STREET VANCOUVER, BC V6C 2X8 CANADA R.06-04-009 MARY MCDONALD DIRECTOR OF STATE AFFAIRS CALIFORNIA INDEPENDENT SYSTEM OPERATOR 151 BLUE RAVINE ROAD FOLSOM, CA 95630 R.08-04-009

JEN MCGRAW CENTER FOR NEIGHBORHOOD TECHNOLOGY PO BOX 14322 SAN FRANCISCO, CA 94114 R.08-04-009

BRUCE MCLAUGHLIN ATTORNEY AT LAW BRAUN & BLAISING P.C. 915 L STREET, SUITE 1270 SACRAMENTO, CA 95814 R.06-04-009

RACHEL MCMAHON CEERT 1100 11TH STREET, SUITE 311 SACRAMENTO, CA 95814 R06-04-009 BRIAN MCQUOWN RELIANT ENERGY 7251 AMIGO ST., SUITE 120 LAS VEGAS, NV 89119 R.06-04-009

ELENA MELLO SIERRA PACIFIC POWER COMPANY 6100 NEIL ROAD RENO, NV 89520 R.06-04-009 DARYL METZ CALIFORNIA ENERGY COMMISSION 1516 9TH ST., MS-20 SACRAMENTO, CA 95814 R.08-04-009 STEVEN S. MICHEL WESTERN RESOURCE ADVOCATES 2025 SENDA DE ANDRES SANTA FE, NM 87501 R.06-04-009

KAREN NORENE MILLS ATTORNEY AT LAW CALIFORNIA FARM BUREAU FEDERATION 2300 RIVER PLAZA DRIVE SACRAMENTO, CA 95833 R.08-04-009 MARCIE MILNER
DIRECTOR - REGULATORY AFFAIRS
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SAN DIEGO, CA 92121
R.08-04-009

SAMARA MINDEL REGULATORY AFFAIRS ANALYST FELLON-MCCORD & ASSOCIATES 9960 CORPORATE CAMPUS DRIVE, SUITE 2000 LOUISVILLE, KY 40223 R.06-04-009

CYNTHIA MITCHELL ENERGY ECONOMICS, INC. 530 COLGATE COURT RENO, NV 89503 R.06-04-009 Ed Moldavsky
CALIF PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
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Rahmon Momoh CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4205 SAN FRANCISCO, CA 94102-3214 R.06-04-009

Beth Moore CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4103 SAN FRANCISCO, CA 94102-3214 R.08-04-009 Harvey Y. Morris CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5036 SAN FRANCISCO, CA 94102-3214 Lainie Motamedi CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5119 SAN FRANCISCO, CA 94102-3214 R.08-04-009

Thursday, August 30, 2007

DAVID L. MODISETTE CALIFORNIA ELECTRIC TRANSP. COALITION 1015 K STREET, SUITE 200 SACRAMENTO, CA 95814 R.08-04-009 WES MONIER STRATEGIC ISSUES AND PLANNING MANAGER TURLOCK IRRIGATION DISTRICT 333 EAST CANAL DRIVE, PO BOX 949 TURLOCK, CA 95381-0949 R06-04-009

ROGER C. MONTGOMERY VICE PRESIDENT, PRICING SOUTHWEST GAS CORPORATION PO BOX 98510 LAS VEGAS, NV 89193-8510 R.08-04-009

RONALD MOORE GOLDEN STATE WATER/BEAR VALLEY ELECTRIC 630 EAST FOOTHILL BOULEVARD SAN DIMAS, CA 91773 R.06-04-009 RICHARD J. MORILLO ASSISTANT CITY ATTORNEY CITY OF BURBANK 215 E. OLIVE AVENUE BURBANK, CA 91502 R.08-04-009 GREGG MORRIS DIRECTOR GREEN POWER INSTITUTE 2039 SHATTUCK AVENUE, STE 402 BERKELEY, CA 94704 R.08-04-009

STEVEN MOSS SAN FRANCISCO COMMUNITY POWER COOP 2325 3RD STREET, SUITE 344 SAN FRANCISCO, CA 94120 R08-04-009 MATTHEW MOST EDISON MISSION MARKETING & TRADING, INC. 160 FEDERAL STREET BOSTON, MA 02110-1776 R.08-04-009

Scott Murtishaw
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PHILLIP J. MULLER SCD ENERGY SOLUTIONS 436 NOVA ALBION WAY SAN RAFAEL, CA 94903 R.06-04-009

CLYDE MURLEY 1031 ORDWAY STREET ALBANY, CA 94706 R06-04-009 Richard A. Myers CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE AREA 4-A SAN FRANCISCO, CA 94102-3214 R.08-04-009

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RICK C. NOGER PRAXAIR PLAINFIELD, INC. 2711 CENTERVILLE ROAD, SUITE 400 WILMINGTON, DE 19808 R.06-04-008

Thursday, August 30, 2007

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ALVIN PAK SEMPRA GLOBAL ENTERPRISES 101 ASH STREET SAN DIEGO, CA 92101 R.06-04-009

LAURIE PARK NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670-6078 R.08-04-009 LORRAINE PASKETT DIRECTOR, LEGISLATIVE AND REG. AFFAIRS LA DEPT. OF WATER & POWER 111 N. HOWARD ST., ROOM 1536 LOS ANGELES, CA 90012 R08-04-009

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Thursday, August 30, 2007

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Thursday, August 30, 2007

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JENINE SCHENK APS ENERGY SERVICES 400 E. VAN BUREN STREET, SUITE 750 PHOENIX, AZ 85004 R.06-04-009 STEVEN SCHILLER SCHILLER CONSULTING, INC. 111 HILLSIDE AVENUE PIEDMONT, CA 94611 R.06-04-009 STEVEN S. SCHLEIMER
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Thursday, August 30, 2007

CYNTHIA SCHULTZ REGULATORY FILING COORDINATOR PACIFIC POWER AND LIGHT COMPANY 825 N.E. MULTNOMAH PORTLAND, OR 97232 R06-04-409 LISA SCHWARTZ SENIOR ANALYST ORGEON PUBLIC UTILITY COMMISSION PO BOX 2148 SALEM, 08 97308-2148 R.06-04-009

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Thursday, August 30, 2007

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Thursday, August 30, 2007

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Thursday, August 30, 2007

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