## 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 Emission Standards into Procurement Policies

Rulemaking 06-04-009 (Filed April 13, 2007)

and

### BEFORE THE CALIFORNIA ENERGY COMMISSION

AB 32 Implementation	07-OIIP-01

# COMMENTS OF THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR TO THE JOINT CPUC AND CEC STAFF PROPOSAL FOR AN ELECTRIC RETAIL PROVIDER GHG REPORTING PROTOCOL

### Introduction

Pursuant to the Ruling of ALJs TerKeurst and Lakritz dated June 12, 2007, the California Independent System Operator Corporation ("CAISO") submits its comments to the Joint California Public Utilities Commission and California Energy Commission Staff Proposal for an Electricity Retail Provider GHG Reporting Protocol (hereafter "Staff Reporting Proposal").

The Staff Reporting Proposal is a draft protocol for the tracking and reporting of Greenhouse Gas ("GHG") emissions associated with electricity retail sales in California and is the point of departure for developing a set of CPUC and CEC recommendations to present to the California Air Resources Board ("ARB") in September 2007. ARB will consider these recommendations in its development of final reporting regulations by a

January 1, 2008 deadline, pursuant to the ARB's mandate under AB 32.<sup>1</sup> While the proposal notes that it addresses reporting rules for a load-based approach, it also notes that "the issue of whether a load-based cap is the appropriate approach will be addressed elsewhere in this proceeding."<sup>2</sup>

At the same time that the ARB is developing reporting and inventory regulations, the ARB will also determine what the statewide GHG emission level was for 1990, and the ARB will approve a statewide GHG limit, equivalent to that baseline level, to be achieved by 2020.<sup>3</sup> In a recent workshop in this proceeding, it was clarified that the 1990 baseline/2020 limit that the ARB establishes under AB 32 will be a single number, aggregated across all the sectors of the California economy, and not a series of sector-specific numbers for the electricity sector and the other sectors of the California economy.<sup>4</sup>

#### 1. General Comments on the Overall Product

At the outset, the CAISO wishes to express appreciation to the CPUC and CEC staff for their work in formulating the Staff Reporting Proposal. The CAISO recognizes that many hours of effort were necessary to i) investigate and gather information from many diverse sources, through formal workshops, informal outreach to knowledgeable parties, and literature review; ii) study, digest, analyze and synthesize the information; and iii) craft a construct that lays out the information in a comprehensive, structured manner.

<sup>&</sup>lt;sup>1</sup> Staff Reporting Proposal, Executive Summary, at p. vi. Health & Safety Code Section 38530(a) of AB 32 sets forth the reporting and verification regulation requirement by January 1, 2008.

<sup>&</sup>lt;sup>2</sup> Staff Reporting Protocol, Section 1.1 [Implementing a Load-based Tracking System in the Electricity Sector], p.1, n1.

<sup>&</sup>lt;sup>3</sup> Health and Safety Code Section 38550.

<sup>&</sup>lt;sup>4</sup> Joint Workshop of the CEC and CPUC, held June 22, 2007 in Sacramento. The comment was made at the beginning of the workshop. As of the date of CAISO's Comments, the transcript of this workshop is not available.

In addition, the CAISO appreciates the effort undertaken by the staff to understand and acknowledge, in the Staff Reporting Proposal, the potential interplay between GHG reduction policies and the CAISO's wholesale markets for energy, reserves, and transmission service; in particular, the upcoming implementation of a day-ahead integrated forward market (IFM) and the real time market (RTM). The proposal recognizes that the IFM and the RTM are designed to optimize economic (i.e. least-cost) dispatch of supply resources and to provide non-discriminatory access to the wholesale power grid, while also maintaining grid reliability. In this regard, the proposal aptly includes criteria expressing that the "reporting method should not distort the electricity markets by causing retail providers to make non-optimal resource choices" and "the reporting protocol should not incentivize buyers or sellers to misuse the IFM or the real time market."

The CAISO also believes that the Staff Reporting Proposal takes a reasoned approach in assigning default emission factors to account for unspecified power sources, such as imported power and system power purchases, and to account for the difference between contracted energy and actual dispatch.<sup>6</sup> This is an appropriate way to address the task of creating a first cut reporting system for the field of GHG regulation.

### 2. Specific Points for Modification of the Proposal

In turning to the CAISO's specific recommendations for treatment of the CAISO real time and integrated forward markets, the CAISO recommends that the proposal assign the <u>same default factor to both markets</u> and that this emissions level initially be set at <u>1,100 lbs per megawatt hour</u>, which is the standard that the CEC and CPUC have established for their AB 1368 emissions performance standard, as approximating the emissions level of a natural gas combined cycle combustion turbine ("CCGT").

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<sup>&</sup>lt;sup>5</sup> Staff Reporting Protocol, Section 2.3.5 [Minimization of Unintended Consequences], at p. 7.

<sup>&</sup>lt;sup>6</sup> Staff Reporting Protocol, Executive Summary, at p. vi.

In addition, the CAISO mentions one note of concern, regarding the large difference between the proposed emissions factors for imports from the Northwest and the Southwest. The concern is that adopting a Southwest emissions factor that is 2.5 times greater than the Northwest emissions factor could create a strong incentive for contract shuffling, to take advantage of the lower Northwest emissions factor. Such contract shuffling, could, in turn, lead to significant changes in parties' scheduled use of the CAISO grid, to increase imports from the Northwest and decrease imports from the Southwest, in a manner that does not really reflect changes in the dispatch of generating resources in the Western region.

### The CAISO Recommends that the Proposal Set the Same Default Emission Factor for the Real Time and Integrated Forward Markets

The proposal sets default emission factors of 900<sup>7</sup> for the CAISO real time market (RTM) and 1,000 for the CAISO integrated forward market (IFM). However, the proposal does not state what information was used as the basis for these numbers, or the reason to assign different values to the two markets.

CAISO is concerned that assigning different values for the two markets may create an incentive for parties to select one market over the other. In this regard, CAISO is concerned about creating the incentive (in reality or perception) for a retail provider to hold itself out of the IFM and shift its purchases to the RTM, in order to take advantage of the lower GHG emission factor assigned to the RTM. Creating such an incentive would run counter to the criterion in Section 2.3.5, Minimization of Unintended Consequences. This criterion notes that the reporting mechanism should not cause retail providers to make non-optimal resource choices, nor should it incentivize buyers or sellers to misuse the IFM or the RTM. Furthermore, it is important to note that the IFM

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<sup>&</sup>lt;sup>7</sup> All default factors represent pounds of CO2 per MW hour.

<sup>&</sup>lt;sup>8</sup> Staff Reporting Protocol, Section 2.3.5 [Minimization of Unintended Consequences], at p.7.

is anticipated to be the more optimal market, since it is forward in time and addresses a wider resource market than RTM. This optimization includes more than price. IFM enhances identification of transmission constraints and infeasible transactions. To the extent that there were carbon-regulation motivated shifting to the RTM, this would complicate the task of control room operators.

Moreover, the IFM will be a new market structure when it commences in February 2008, representing the first implementation of a transparent day-ahead energy market since the demise of the California Power Exchange in 2001. As such, the IFM will be subject to study and potential refinement, as it unfolds. Setting two different rates for the IFM and the RTM will introduce an additional factor into the analysis of why parties might have elected to participate in one market versus the other, thus complicating the analysis by bringing one more variable into the new market structure.

# The CAISO Recommends that the Proposal Set the Emission Factor(s) for Both the RTM and the IFM at 1,100

The emission factors that the proposal establishes for the RTM and IFM are each set at levels that are likely to be lower than the emission factors for in-state specified sources. (These factors will be established from the generation source emissions data reported to ARB, which ARB will use to certify unit-specific or facility-specific emission rates.) This is because the in-state specified sources group will include older units and power facilities that will be certified at emission rates higher than 1000 pounds (the IFM emissions factor).

While the CAISO recognizes that the CAISO emission factors represent an aggregated number for the power pools, and would be a mix of higher and lower carbon emitting resources, it is the CAISO's opinion that the numbers are set too low. This is especially the case for the RTM, which, in large part, will be comprised of short-start units. Short-start units are often single cycle combustion turbines (CTs) used for peak

loads. The current stock of peaker units are generally higher carbon emitters than CCCTs. 9

The CAISO recommends that the Joint Staff Proposal use a 1,100 emission factor for both the RTM and the IFM. This is the number that the CEC and CPUC have established as the Emissions Performance Standard (EPS) for retail service providers under SB 1368. After receiving stakeholder input on the subject, the CEC and CPUC determined that 1,000 pounds best represents the performance level of the current stock of CCGTs, accounting differential for performance based age and specifications of various units (i.e. LM6000s) and other factors, such as the elevation and ambient temperature where CCGTs may be sited. The CAISO is of the opinion that the 1,100 number more accurately reflects the carbon emission level of the resource mix for the RTM and the IFM. In addition, utilizing the same emissions factor as the EPS will promote consistency in GHG regulation.

# 3. Comments on Some of the Issues Raised In Administrative Law Judges' June 12<sup>th</sup> Ruling

The CAISO also provides the following comments on some of the issues raised in the ALJs' June 12<sup>th</sup> ALJs' Ruling:

Whether the criteria for assessing reporting protocols identified in Section 2.3 of the report are appropriate, and whether the Staff proposal adequately complies with what you view as appropriate criteria

Section 2.3.3 lists the criteria "simplicity," but the discussion also contains an important concept that might well be expressly stated: that of proportionality of burden to benefit. The discussion notes that the protocol should not impose an overly burdensome procedure on either the reporting entities or the state agencies. In this regard, the reporting protocol should strive for a proportional fit between i) the obligations it

<sup>&</sup>lt;sup>9</sup> Given this fact, if different numbers are to be used for IFM and RTM, the RTM emissions factor should be the <u>higher</u> number in comparison to the IFM.

imposes on retail providers to provide detailed information and ii) the expected usefulness of the information for overall GHG regulation.

The primary subject area to apply this criterion is the treatment of unspecified power: that is, imported and exported power, and unspecified contracts. In this regard, it has been noted, for example, that the scope of unspecified power is a relatively small level of total electricity consumption. Moreover, current methodologies, such as e-tags, do not contain enough information to trace power flows from source to sink, and the commercial electricity market activity includes some 800 to 1000 custody changes of purchased power per hour and approximately, and 8,000MWs of net imports into California per hour.<sup>10</sup>

The CAISO believes that, overall, the Staff Reporting Protocol strikes an appropriate balance, outlining a reporting approach proportionate to the benefits derived from accounting for GHGs attributable to unspecified power. The emission factors are more detailed, and designed to achieve more accuracy, than if would be achieved by merely averaging the import portfolio mix from the Pacific Northwest and the Southwest. It seems that, if the proposal had tried to drilling down further (for example, to account for more variables, such as season or hour of import/export or to try to get a more granular breakdown of more source areas or for specific generation units), it would have imposed too much burden, with little commensurate gain in accuracy of GHG emissions.

Whether the intent should be to design a reporting protocol that could be adopted directly by other states in the region and, if so, whether modifications to the Staff proposal would be needed for this purpose

At this early stage of GHG regulatory development, it is preferable to strive to design a reporting protocol that is <u>not inconsistent</u> with currently known features of other developing state GHG schemes, rather than to focus on affirmatively refining the

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<sup>&</sup>lt;sup>10</sup> See CAISO presentation made at the April 12, 2007 CPUC GHG workshops in this proceeding, posted on the CPUC internet website at <a href="http://www.cpuc.ca.gov/static/energy/electric/climate+change/caliso.pdf">http://www.cpuc.ca.gov/static/energy/electric/climate+change/caliso.pdf</a>

proposal to incorporate features that other states may want to include in order for those states to directly adopt California's protocol.

How the proposed reporting requirements including, in particular, the use of estimates, could affect the integrity of greenhouse gas (GHG) emission allowances and whether the requirements may have implications on the ability to trade GHG emission allowances with other regimes

California is a net importer of electric power. As other Western state regimes are developed, California may be able to look to the other states for details on the emissions composition of their exports to California. This information could conceivably be used to validate and refine the default emission factors used in the current reporting protocol, or in lieu of particular default emission factors.

# In addition to any technical, policy, or other concerns, whether the Staff proposal raises any legal issues

The primary legal challenge for the proposal is to develop a California regulatory system that is consistent with the duality of state and federal regulation and does not regulate interstate commerce in violation of the federal commerce clause. Commerce clause prohibitions are implicated when courts perceive that state regulatory schemes treat out-of-state products, or product providers, inappropriately differently than in-state products or providers, or regulate them in ways that are over-inclusive in regulatory reach, or not well tailored to promote the stated purpose for the regulation, when the court weighs that state purpose of the rule against its adverse impact on the out-of-state product or producer.<sup>11</sup> The paradigm unconstitutional regulation is the protectionist one

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<sup>&</sup>lt;sup>11</sup> See e.g., <u>City of Philadelphia v. New Jersey</u>, 437 U.S. 617; 98 S. Ct. 2531 (1978). In this regard, it is also useful to note that, in both SB 1368 and AB 32, the Legislature articulated that a primary purpose of the measures was to enhance and protect California's <u>economy</u> from GHGs, a state interest that federal law has upheld when state regulation has been challenged on federal preemption grounds. (See <u>PG&E v. CEC</u>, 461 U.S. 190 (1983) [Congress has preserved the dual regulation of nuclear-powered electricity generation: the Federal Government maintains complete control of the safety and "nuclear" aspects of energy generation, whereas the States exercise their *traditional authority over economic questions such as the need for additional generating capacity, the type of generating facilities to be licensed, land use, and ratemaking*. This Court accepts California's avowed *economic rather than safety purpose* as the rationale for enacting 25524.2, and accordingly the statute lies outside the federally occupied field of nuclear safety regulation. (Id. at pp. 205-216, emphasis added.)]).

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that intentionally penalizes out-of-state imports, but which the state claims, under pretext,

is intended to promote health and safety.

Accordingly, the protocol should be drafted so as to treat power imports into

California, and power exports from California, similarly to in-state power. The Joint

Staff Proposal appears to have done so.

Respectfully submitted,

/s/Baldassaro "Bill" Di Capo

Baldassaro "Bill" Di Capo 151 Blue Ravine Road Folsom, CA 95630

Telephone: (916) 351-4400 Facsimile: (916) 608-7222

ATTORNEYS FOR THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR

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### **CERTIFICATE OF SERVICE**

I hereby certify that on July 2, 2007. I served, by electronic mail, a copy of the foregoing Prehearing Conference Statement of the California Independent System

Operator, as follows:

To all parties in CPUC Docket No. R.06-04-009;

To the CEC Docket Office for CEC Docket 07-OIIP-01, by delivery to docket@energy.state.ca.us;

To Karen Griffin, CEC Project Manager for CEC Docket 07-OIIP-01, by delivery to kgriffin@energy.state.ca.us;

Executed on July 2, 2007 at Folsom, California.

/s/Susan L. Montana

Susan L. Montana An Employee of the California Independent System Operator STEVEN S. SCHLEIMER
BARCLAYS BANK, PLC
200 PARK AVENUE, FIFTH FLOOR
NEW YORK, NY
10166steven.schleimer@barclayscapital.com
ERIN M. MURPHY
MCDERMOTT WILL & EMERY LLP
600 THIRTEENTH STREET, N.W.
WASHINGTON, DC
20005emmurphy@mwe.com
THOMAS DILL
LODI GAS STORAGE, L.L.C.
1021 MAIN ST STE 1500
HOUSTON, TX 770026509rdill@westernhubs.com
JENINE SCHENK

APS ENERGY SERVICES 400 E. VAN BUREN STREET, SUITE 750 PHOENIX, AZ 85004jenine.schenk@apses.com

ROGER C. MONTGOMERY

WOODLAND HILLS, CA

PO BOX 98510

SOUTHWEST GAS CORPORATION

LAS VEGAS, NV 89193-8510roger.montgomery@swgas.com
DENNIS M.P. EHLING
KIRKPATRICK & LOCKHART NICHOLSON
GRAHAM
10100 SANTA MONICA BLVD., 7TH FLOOR
LOS ANGELES, CA 90067dehling@klng.com
TIFFANY RAU
CARSON HYDROGEN POWER PROJECT
LLC
ONE WORLD TRADE CENTER, SUITE 1600
LONG BEACH, CA 90831DÄNIEL W. DÖÜGLASS
DÖÜGLASS & LIDDELL
21700 OXNARD STREET, SUITE 1030

91367douglass@energyattorney.com LAURA I. GENAO SOUTHERN CALIFORNIA EDISON 2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770Laura.Genao@sce.com

DAN HECHT
SEMPRA ENERGY
101 ASH STREET
SAN DIEGO, CA
92101dhecht@sempratrading.com
JOSEPH R. KLOBERDANZ
SAN DIEGO GAS & ELECTRIC
PO BOX 1831
SAN DIEGO, CA
92112jkloberdanz@semprautilities.com
GLORIA BRITTON
ANZA ELECTRIC COOPERATIVE, INC.
PO BOX 391909

PO BOX 391909 58470 HWY 371 ANZA, CA 92539GloriaB@anzaelectric.org JOHN P. HUGHES SOUTHERN CALIFORNIA EDISON COMPANY

COMPANY 601 VAN NESS AVENUE, STE. 2040 SAN FRANCISCO, CA

Diana L. Lee CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

505 VAN NESS AVENUE
ROOM 4300
SAN FRANCISCO, CA 94102MICHÄEL P. ALCANTAR
ALCANTAR & KAHL, LLP
120 MONTGOMERY STREET, SUITE 2200
SAN FRANCISCO, CA 94104mpa@g

SAN FRANCISCO, CA 94104mpa@aklaw.com EDWARD G POOLE ANDERSON DONOVAN & POOLE

EDWARD G FOOLE
ANDERSON DONOVAN & POOLE
601 CALIFORNIA STREET SUITE 1300
SAN FRANCISCO, CA
94108epoole@adplaw.com
JEANNE B. ARMSTRONG
GOODIN MACBRIDE SQUERI RITCHIE &
DAY LLP
505 SANSOME STREET, SUITE 900
SAN FRANCISCO, CA
JÖSEPH M. KARP
WINSTON & STRAWN LLB

JOSEPH M. KARP WINSTON & STRAWN LLP 101 CALIFORNIA STREET SAN FRANCISCO, CA 94111-5802jkarp@winston.com

SAN FRANCISCO, CA 94111-5802jkarp@winston.com LARS KVALE CENTER FOR RESOURCE SOLUTIONS

PO BOX 39512 PRESIDIO BUILDIING 97 SAN FRANCISCO, CA 94129lars@resource-AVIS KOWALEWSKI

CALPINE CORPORATION 3875 HOPYARD ROAD, SUITE 345 PLEASANTON, CA 94588kowalewskia@calpine.com STEVEN HUHMAN
MORGAN STANLEY CAPITAL GROUP INC.
2000 WESTCHESTER AVENUE
PURCHASE, NY
10577steven.huhman@morganstanley.com
MICHAEL A. YUFFEE
MCDERMOTT WILL & EMERY LLP

600 THIRTEENTH STREET, N.W.
WASHINGTON, DC 200053096myuffee@mwe.com
E.J. WRIGHT
OCCIDENTAL POWER SERVICES, INC.
5 GREENWAY PLAZA, SUITE 110
HOUSTON, TX 77046ej\_wright@oxy.com

JOHN B. WELDON, JR. SALMON, LEWIS & WELDON, P.L.C. 2850 EAST CAMELBACK ROAD, SUITE 200 PHOENIX, AZ 85016jbw@slwplc.com

SID NEWSOME SOUTHERN CALIFORNIA GAS COMPANY 555 WEST 5TH STREET GT 14 D6 LOS ANGELES, CA GREGORY KOÏSER CONSTELLATION NEW ENERGY, INC. 350 SOUTH GRAND AVENUE, SUITE 3800 LOS ANGELES, CA 90071gregory.koiser@constellation.com GREGORY KLATT DOUGLASS & LIDDELL 411 E. HUNTINGTON DRIVE, STE. 107-356 ARCADIA, CA 91006klatt@energyattorney.com PAUL DELANEY AMERICAN UTILITY NETWORK (A.U.N.) 10705 DEER CANYON DRIVE ALTA LOMA, CA 91737pssed@adelphia.net RONALD MOORE GOLDEN STATE WATER/BEAR VALLEY ELECTRIC 630 EAST FOOTHILL BOULEVARD SAN DIMAS, CA 91773rkmoore@gswater.com DANIEL A. KING SEMPRA ENERGY

SAN DIEGO, CA 92101daking@sempra.com

BILL LYONS
CORAL POWER, LLC
4445 EASTGATE MALL, SUITE 100
SAN DIEGO, CA 92121Bill.Lyons@shell.com

101 ASH STREET, HQ 12

LYNELLE LUND
COMMERCE ENERGY, INC.
600 ANTON BLVD., SUITE 2000
COSTA MESA, CA
92626llund@commerceenergy.com
LAD LORENZ
SOUTHERN CALIFORNIA GAS COMPANY
601 VAN NESS AVENUE, SUITE 2060
SAN FRANCISCO, CA
94102llorenz@semprautilities.com
F. Jackson Stoddard
CALIF PUBLIC UTILITIES COMMISSION
505 VAN NESS AVENUE
ROOM 5125
SAN FRANCISCO, CA 94102SEEMA SRINIVASAN
ALCANTAR & KAHL, LLP
120 MONTGOMERY STREET, SUITE 2200
SAN FRANCISCO, CA 94104sle@a-klaw.com

MCKENNA LONG & ALDRIDGE LLP
101 CALIFORNIA STREET, 41ST FLOOR
SAN FRANCISCO, CA
94111agrimaldi@mckennalong.com
KAREN BOWEN
WINSTON & STRAWN LLP
101 CALIFORNIA STREET
SAN FRANCISCO, CA
94111kbowen@winston.com
JEFFREY P. GRAY
DAVIS WRIGHT TREMAINE, LLP
505 MONTGOMERY STREET, SUITE 800
SAN FRANCISCO, CA 941116533jeffgray@dwt.com
ANDREA WELLER
STRATEGIC ENERGY
3130 D BALFOUR RD., SUITE 290
BRENTWOOD, CA 94513aweller@sel.com

ANN G. GRIMALDI

WILLIAM H. BOOTH LAW OFFICES OF WILLIAM H. BOOTH 1500 NEWELL AVENUE, 5TH FLOOR WALNUT CREEK, CA 94596wbooth@boothlaw com RICK C. NOGER
PRAXAIR PLAINFIELD, INC.
2711 CENTERVILLE ROAD, SUITE 400
WILMINGTON, DE
19808rick\_noger@praxair.com
LISA M. DECKER
CONSTELLATION ENERGY GROUP, INC.
111 MARKET PLACE, SUITE 500
BALTIMORE, MD
21202lisa.decker@constellation.com
PAUL M. SEBY
MCKENNA LONG & ALDRIDGE LLP
1875 LAWRENCE STREET, SUITE 200
DENVER, CO 80202pseby@mckennalong.com

KELLY BARR SALT RIVER PROJECT PO BOX 52025, PAB 221 PHOENIX, AZ 85072-2025kelly.barr@srpnet.com DAVID L. HUARD MANATT, PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BOULEVARD LOS ANGELES, CA 90064dhuard@manatt.com NORMAN A. PEDERSEN HANNA AND MORTON, LLP 444 SOUTH FLOWER STREET, NO. 1500 LOS ANGELES, CA 90071npedersen@hanmor.com MAUREEN LENNON MAUREEN LENNON
CALIFORNIA COGENERATION COUNCIL
595 EAST COLORADO BLVD., SUITE 623
PASADENA, CA
91101maureen@lennonassociates.com AKBAR JAZAYEIRI SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVE. ROOM 390 ROSEMEAD, CA DON WOOD PACIFIC ENERGY POLICY CENTER 4539 LEE AVENUE LA MESA, CA 91941dwood8@cox.net SYMONE VONGDEUANE

SEMPRA ENERGY SOLUTIONS
101 ASH STREET, HQ09
SAN DIEGO, CA 921013017svongdeuane@semprasolutions.com
THOMAS DARTON
PILOT POWER GROUP, INC.
9320 CHESAPEAKE DRIVE, SUITE 112
SAN DIEGO, CA
92123tdarton@pilotpowergroup.com
TAMLYN M. HUNT
COMMUNITY ENVIRONMENTAL
COUNCIL
26 W. ANAPAMU ST., 2/F
SANTA BARBARA, CA
MARCEL HAWIGER
THE UTILITY REFORM NETWORK
711 VAN NESS AVENUE, SUITE 350
SAN FRANCISCO, CA 94102marcel@turn.org

AUDREY CHANG

NATURAL RESOURCES DEFENSE COUNCIL 111 SUTTER STREET, 20TH FLOOR SAN FRANCISCO, CA 94104achang@nrdc.org WILLIAM H. CHEN CONSTELLATION NEW ENERGY, INC. ONE MARKET STREET SPEAR TOWER, 36TH FLOOR SAN FRANCISCO, CA BRIAN T. CRAGG GOODIN, MACBRIDE, SQUERI, RITCHIE & DAY 505 SANSOME STREET, SUITE 900 SAN FRANCISCO, CA LISA A. COTTLE WINSTON & STRAWN LLP 101 CALIFORNIA STREET, 39TH FLOOR SAN FRANCISCO, CA 9411 Ilcottle@winston.com CHRISTOPHER J. WARNER PACIFIC GAS AND ELECTRIC COMPANY 77 BEALE STREET, PO BOX 7442 SAN FRANCISCO, CA 94120-7442cjw5@pge.com JENNIFER CHAMBERLIN STRATEGIC ENERGY, LLC 2633 WELLINGTON CT. CLYDE, CA

94520jchamberlin@strategicenergy.com

94612hoerner@redefiningprogress.org

J. ANDREW HOERNER

OAKLAND, CA

REDEFINING PROGRESS 1904 FRANKLIN STREET KEITH R. MCCREA
SUTHERLAND, ASBILL & BRENNAN, LLP
1275 PENNSYLVANIA AVE., N.W.
WASHINGTON, DC 200042415keith.mccrea@sablaw.com
KEVIN BOUDREAUX
CALPINE POWER AMERICA-CA, LLC
717 TEXAS AVENUE, SUITE 1000
HOUSTON, TX
77002kevin.boudreaux@calpine.com
TIMOTHY R. ODIL
MCKENNA LONG & ALDRIDGE LLP
1875 LAWRENCE STREET, SUITE 200
DENVER, CO 80202todil@mckennalong.com

STEVEN S. MICHEL WESTERN RESOURCE ADVOCATES 2025 SENDA DE ANDRES SANTA FE, NM 87501smichel@westernresources.org CURTIS L. KEBLER J. ARON & COMPANY 2121 AVENUE OF THE STARS SUITE 2600 LOS ANGELES, CA MICHAEL MAZUR 3 PHASES ENERGY SERVICES, LLC 2100 SEPULVEDA BLVD., SUITE 38 MANHATTAN BEACH, CA 90266mmazur@3phases.com RICHARD HELGESON SOUTHERN CALIFORNIA PUBLIC POWER AUTHORI 225 S. LAKE AVE., SUITE 1250
PASADENA, CA 91101rhelgeson@scppa.org ANNETTE GILLIAM SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVENUE ROSEMEAD, CA ALLEN K. TRIAL SDGE&SCG 101 ASH STREET HQ-13 SAN DIEGO, CA 92101atrial@sempra.com THEODORE ROBERTS SEMPRA GLOBAL 101 ASH STREET, HQ 13D SAN DIEGO, CA 92101-3017troberts@sempra.com STEVE RAHON SAN DIEGO GAS & ELECTRIC COMPANY 8330 CENTURY PARK COURT, CP32C SAN DIEGO, CA 92123-1548lschavrien@semprautilities.com JEANNE M. SOLE CITY AND COUNTY OF SAN FRANCISCO 1 DR. CARLTON B. GOODLETT PLACE, RM. 234 SAN FRANCISCO, CA NINA SUETAKE THE UTILITY REFORM NETWORK 711 VAN NESS AVE., STE 350 SAN FRANCISCO, CA 94102nsuetake@turn.org

BRIAN K. CHERRY PACIFIC GAS AND ELECTRIC COMPANY 77 BEALE STREET, B10C SAN FRANCISCO, CA 94106bkc7@pge.com

ALCANTAR & KAHL, LLP 120 MONTGOMERY STREET, SUITE 2200 SAN FRANCISCO, CA 94104ek@a-klaw.com

EVELYN KAHL

JAMES D. SQUERI
GOODIN MACBRIDE SQUERI RITCHIE &
DAY LLP
505 SANSOME STREET, STE 900
SAN FRANCISCO, CA
SEAN P. BEATTY
COOPER, WHITE & COOPER, LLP
201 CALIFORNIA ST., 17TH FLOOR
SAN FRANCISCO, CA
94111sbeatty@cwclaw.com

SARA STECK MYERS 122 28TH AVENUE SAN FRANCISCO, CA 94121ssmyers@att.net

KERRY HATTEVIK
MIRANT CORPORATION
696 WEST 10TH STREET
PITTSBURG, CA
94565kerry.hattevik@mirant.com
JANILL RICHARDS
CALIFORNIA ATTORNEY GENERAL'S
OFFICE
1515 CLAY STREET, 20TH FLOOR
OAKLAND, CA

CLIFF CHEN UNION OF CONCERNED SCIENTIST 2397 SHATTUCK AVENUE, STE 203 BERKELEY, CA 94704cchen@ucsusa.org

C. SUSIE BERLIN MC CARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, SUITE 501 SAN JOSE, CA 95113sberlin@mccarthylaw.com JOHN JENSEN MOUNTAIN UTILITIES PO BOX 205 KIRKWOOD, CA 95646jjensen@kirkwood.com BRUCE MCLAUGHLIN BRAUN & BLAISING, P.C. 915 L STREET, SUITE 1420 SACRAMENTO, CA 95814mclaughlin@braunlegal.com VIRGIL WELCH ENVIRONMENTAL DEFENSE 1107 9TH STREET, SUITE 540 SACRAMENTO, CA 95814vwelch@environmentaldefense.org STEVEN M. COHN SACRAMENTO MUNICIPAL UTILITY DISTRICT PO BOX 15830 SACRAMENTO, CA 95852-

TARA KNOX AVISTA CORPORATION PO BOX 3727 SPOKANE, WA 99220

KENNETH A. COLBURN

DONALD BROOKHYSER

ALCANTAR & KAHL 1300 SW FIFTH AVE., SUITE 1750

PORTLAND, OR 97210deb@a-klaw.com

SYMBILTIC STRATEGIES, LLC 26 WINTON ROAD MEREDITH, NH 3253kcolburn@symbioticstrategies.com GEORGE HOPLEY BARCLAYS CAPITAL 200 PARK AVENUE NEW YORK, NY 10166george.hopley@barcap.com VERONIQUE BUGNION POINT CARBON 205 SEVERN RIVER RD SEVERNA PARK, MD

21146vb@pointearbon.com

RALPH E. DENNIS

FELLON-MCCORD & ASSOCIATES
9960 CORPORATE CAMPUS DRIVE, STE

2000 CONSTELLATION NEWENERGY-GAS

BRIAN POTTS ONE SOUTH PINCKNEY STREET

SUITE 700 MADISON, WI 53703bhpotts@michaelbest.com GARY HINNERS

RELIANT ENERGY, INC. PO BOX 148 HOUSTON, TX 77001nicholas Lenssen ENERGY INSIGHTS 1750 14TH STREET, SUITE 200

BOULDER, CO 80302nlenssen@energy-insights.com

SANDRA ELY NEW MEXICO ENVIRONMENT

DEPARTMENT
1190 ST FRANCIS DRIVE
SANTA FE, NM 87501Sandra.ely@state.nm.us

JJ PRUCNAL SOUTHWEST GAS CORPORATION

PO BOX 98510 LAS VEGAS, NV 89193-8510jj.prucnal@swgas.com

ELENA MELLO

SIERRA PACIFIC POWER COMPANY 6100 NEIL ROAD

RENO, NV 89520emello@sppc.com

LEILANI JOHNSON KOWAL LOS ANGELES DEPT. OF WATER AND POWER 111 N. HOPE STREET, ROOM 1050 LOS ANGELES, CA

RASHA PRINCE SAN DIEGO GAS & ELECTRIC 555 WEST 5TH STREET, GT14D6 LOS ANGELES, CA

90013rprince@semprautilities.com

GREGG MORRIS GREEN POWER INSTITUTE 2039 SHATTUCK AVENUE, STE 402 BERKELEY, CA 94704gmorris@emf.net

MIKE LAMOND ALPINE NATURAL GAS OPERATING CO. #1 LLC PO BOX 550 VALLEY SPRINGS, CA MARY LYNCH CONSTELLATION ENERGY COMMODITIES GROUP 2377 GOLD MEDAL WAY GOLD RIVER, CA GREGGORY L. WHEATLAND ELLISON, SCHNEIDER & HARRIS, LLP 2015 H STREET SACRAMENTO, CA 95814glw@eslawfirm.com WILLIAM W. WESTERFIELD, 111 ELLISON, SCHNEIDER & HARRIS L.L.P.

2015 H STREET SACRAMENTO, CA 95814www@eslawfirm.com ANN L. TROWBRIDGE DAY CARTER & MURPHY, LLP 3620 AMERICAN RIVER DRIVE, SUITE 205

SACRAMENTO, CA

98864atrowbridge@daycartermurphy.com CYNTHIA SCHULTZ PACIFIC POWER AND LIGHT COMPANY 825 N.E. MULTNOMAH

PORTLAND, OR 97232cynthia.schultz@pacificorp.com IAN CARTER

INTERNATIONAL EMISSIONS TRADING ASSN 350 SPARKS STREET, STE. 809

OTTAWA, ON K1R 7S8carter@ieta.org RICHARD COWART

REGULATORY ASSISTANCE PROJECT 50 STATE STREET, SUITE 3 MONTPELIER, VT 5602rapcowart@aol.com

ADAM J. KATZ MCDERMOTT WILL & EMERY LLP 600 13TH STREET, NW.
WASHINGTON, DC 20005ajkatz@mwe.com

KYLE D. BOUDREAUX FPL GROUP 700 UNIVERSE BLVD., JES/JB JUNO BEACH, FL

33408kyle\_boudreaux@fpl.com SAMARA MINDEL FELLON-MCCORD & ASSOCIATES 9960 CORPORATE CAMPUS DRIVE, SUITE

2000 LOUISVILLE, KY JAMES W. KEATING BP AMERICA, INC. 150 W. WARRENVILLE RD. MAIL CODE 603-1E NAPERVILLE, IL JÜLİE L. MARTIN

NORTH AMERICA GAS AND POWER 501 WESTLAKE PARK BLVD. BP ENERGY COMPANY
HOUSTON, TX 77079julie.martin@bp.com

ELIZABETH BAKER SUMMIT BLUE CONSULTING 1722 14TH STREET, SUITE 230

BOULDER, CO 80304bbaker@summitblue.com

BRIAN MCQUOWN RELIANT ENERGY 7251 AMIGO ST., SUITE 120 LAS VEGAS, NV 89119bmcquown@reliant.com MERIDITH J. STRAND SOUTHWEST GAS CORPORATION PO BOX 98510 LAS VEGAS, NV 89193-8510meridith.strand@swgas.com TREVOR DILLARD SIERRA PACIFIC POWER COMPANY

6100 NEIL ROAD, MS S4A50 PO BOX 10100

RENO, NV 89520tdillard@sierrapacific.com RANDY S. HOWARD

LOS ANGELES DEPT. OF WATER AND POWER 111 NORTH HOPE STREET, ROOM 921

LOS ANGELES, CA RANDALL W. KEEN

MANATT PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BLVD. LOS ANGELES, CA 90064rkeen@manatt.com R. THOMAS BEACH CROSSBORDER ENERGY 2560 NINTH STREET, SUITE 213A BERKELEY, CA 94710-2557tomb@crossborderenergy.com

IOY A WARREN MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354joyw@mid.org

LEONARD DEVANNA CLEAN ENERGY SYSTEMS, INC. 11330 SUNCO DRIVE, SUITE A RANCHO CORDOVA, CA 95742lrdevannarf@cleanenergysystems.com JANE E. LUCKHARDT DOWNEY BRAND LLP 555 CAPITOL MALL, 10TH FLOOR SACRAMENTO, CA 95814jluckhardt@downeybrand.com

DOWNEY BRAND JANE E. LUCKHARDT 555 CAPITOL MALL, 10TH FLOOR SACRAMENTO, CA 95814-4686

DAN SILVERIA SURPRISE VALLEY ELECTRIC COOPERATIVE PO BOX 691 ALTURAS, CA 96101dansvec@hdo.net KYLE L. DAVIS PACIFICORP 825 NE MULTNOMAH, PORTLAND, OR 97232kyle.l.davis@pacificorp.com JASON DUBCHAK

JASON DUBCHAK NISKA GAS STORAGE 1200 855 2ND STREET, S.W. CALGARY, AB T2P 4Z5jason.dubchak@niskags.com KATHRYN WIG NRG ENERGY, INC. 211 CARNEGIE CENTER PRINCETON, NY 8540Kathryn.Wig@nrgenergy.com ELIZABETH ZELLJADT

1725 I STREET, N.W. SUITE 300 WASHINGTON, DC 20006ez@pointcarbon.com ANDREW BRADFORD

FELLON-MCCORD & ASSOCIATES 9960 CORPORATE CAMPUS DRIVE SUITE 2000 LOUISVILLE, KY

BARRY RABE 1427 ROSS STREET PLYMOUTH, MI 48170brabe@umich.edu

IAMES ROSS RCS, INC. RCS, INC. 500 CHESTERFIELD CENTER, SUITE 320 CHESTERFIELD, MO 63017jimross@r-c-s-ED CHIANG

ELEMENT MARKETS, LLC ONE SUGAR CREEK CENTER BLVD., SUITE 250 SUGAR LAND, TX KEVĪN J. SIMONSEN ENERGY MANAGEMENT SERVICES

646 EAST THIRD AVENUE DURANGO, CO 81301kjsimonsen@emsca.com

DOUGLAS BROOKS SIERRA PACIFIC POWER COMPANY 6226 WEST SAHARA AVENUE LAS VEGAS, NV 89151dbrooks@nevp.com

CYNTHIA MITCHELL ENERGY ECONOMICS, INC. 530 COLGATE COURT RENO, NV 89503ckmitchell1@sbcglobal.net

DARRELL SOYARS SIERRA PACIFIC RESOURCES 6100 NEIL ROAD RENO, NV 89520-0024dsoyars@sppc.com

ROBERT L. PETTINATO LOS ANGELES DEPARTMENT OF WATER & POWER 111 NORTH HOPE STREET, SUITE 1150 LOS ANGELES, CA S. NANCY WHANG MANATT, PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BLVD. LOS ANGELES, CA 90064nwhang@manatt.com

BARRY F. MCCARTHY MCCARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, SUITE 501 SAN JOSE, CA 95113bmcc@mccarthylaw.com

BALDASSARO DI CAPO, ESO CALIFORNIA ISO LEGAL AND REGULATORY DEPARTMENT FOLSOM, CA 95630bdicapo@caiso.com ANDREW BROWN ELLISON, SCHNEIDER & HARRIS, LLP 2015 H STREET SACRAMENTO, CA 95814abb@eslawfirm.com JEFFERY D. HARRIS ELLISON, SCHNEIDER & HARRIS LLP 2015 H STREET SACRAMENTO, CA 95814jdh@eslawfirm.com

RAYMOND J. CZAHAR, C.P.A. WEST COAST GAS COMPANY 9203 BEATTY DRIVE SACRAMENTO, CA 95826westgas@aol.com

JESSICA NELSON PLUMAS-SIERRA RURAL ELECTRIC CO-73233 STATE ROUTE 70, STE A PORTOLA, CA 96122-7064notice@psrec.coop RYAN FLYNN PACIFICORP 825 NE MULTNOMAH STREET PORTLAND, OR 97232ryan.flynn@pacificorp.com BRIAN M. JONES M. J. BRADLEY & ASSOCIATES, INC. 47 JUNCTION SQUARE DRIVE CONCORD, MA 1742bjones@mjbradley.com

SAKIS ASTERIADIS APX INC 1270 FIFTH AVE., SUITE 15R NEW YORK, NY 10029sasteriadis@apx.com

DALLAS BURTRAW 1616 P STREET, NW WASHINGTON, DC 20036burtraw@rff.org

GARY BARCH

FELLON-MCCORD & ASSOCIATES, INC. 9960 CORPORATE CAMPUS DRIVE SUITE 2000 LOUISVILLE, KY CATHY S. WOOLLUMS MIDAMERICAN ENERGY HOLDINGS 106 EAST SECOND STREET DAVENPORT, IA TRENT A. CARLSON RELIANT ENERGY 1000 MAIN STREET HOUSTON, TX 77001tcarlson@reliant.com

NADAV ENBAR ENERGY INSIGHTS 1750 14TH STREET, SUITE 200 BOULDER, CO 80302nenbar@energyinsights.com PHILIP D. LUSK WESTERN ELECTRICITY COORDINATING COUNCIL 615 ARAPEEN DRIVE,SUITE 210 SALT LAKE CITY, UT 84108-BILL SCHRAND SOUTHWEST GAS CORPORATON PO BOX 98510 LAS VEGAS, NV 89193-8510bill.schrand@swgas.com CHRISTOPHER A. HILEN SIERRA PACIFIC POWER COMPANY 6100 NEIL ROAD RENO, NV 89511chilen@sppc.com

FRANK LUCHETTI NEVADA DIV. OF ENVIRONMENTAL PROTECTION 901 S. STEWART ST., SUITE 4001 CARSON CITY, NV HUGH YAO SOUTHERN CALIFORNIA GAS COMPANY 555 W. 5TH ST, GT22G2 LOS ANGELES, CA 90013hyao@semprautilities.com MICHAEL MCCORMICK CALIFORNIA CLIMATE ACTION REGISTRY 515 S. FLOWER ST. SUITE 1640 LOS ANGELES, CA

HARVEY EDER
PUBLIC SOLAR POWER COALITION
1218 12TH ST., 25
SANTA MONICA, CA
9040 Iharveyederpspc.org@hotmail.com
BRUNO JEIDER
BURBANK WATER & POWER
164 WEST MAGNOLIA BLVD.
BURBANK, CA
91502bjeider@ci.burbank.ca.us
TIM HEMIG
NRG ENERGY, INC.
1819 ASTON AVENUE, SUITE 105
CARLSBAD, CA
92008tim.hemig@nrgenergy.com
DONALD C. LIDDELL, P.C.
DOUGLASS & LIDDELL
2928 2ND AVENUE

SAN DIEGO, CA 92103liddell@energyattorney.com SCOTT J. ANDERS UNIVERSITY OF SAN DIEGO SCHOOL OF

UNIVERSITY OF SAN DIEGO SCHOOL OF LAW 5998 ALCALA PARK

SAN DIEGO, CA SĒPĪRA A. NINŌW CALIFORNIA CENTER FOR SUSTAINABLE ENERGY 8690 BALBOA AVENUE, SUITE 100 SAN DIEGO, CA MWIRIGI IMUNGI 15615 ALTON PARKWAY IRVINE, CA

92618Mlmungi@energycoalition.org

DIANE I. FELLMAN
LAW OFFICES OF DIANE I. FELLMAN
234 VAN NESS AVENUE
SAN FRANCISCO, CA
94102diane\_fellman@fpl.com
DAN ADLER
CALIFORNIA CLEAN ENERGY FUND
5 THIRD STREET, SUITE 1125
SAN FRANCISCO, CA
94103Dan.adler@calcef.org

94103Dan.adler@calcef.org DEVRA WANG NATURAL RESOURCES DEFENSE

COUNCIL
111 SUTTER STREET, 20TH FLOOR
SAN FRANCISCO, CA 94104dwang@nrdc.org
OLOF BYSTROM
CAMBRIDGE ENERGY RESEARCH

CAMBRIDGE ENERGY RESEARCH ASSOCIATES 555 CALIFORNIA STREET, 3RD FLOOR SAN FRANCISCO, CA ČÖLÍN PETHERAM SBC CALIFORNIA 140 NEW MONTGOMERY ST., SUITE 1325

SAN FRANCISCO, CA 94105colin.petheram@att.com KHURSHID KHOJA

KHURSHID KHOJA THELEN REID BROWN RAYSMAN &

TIBLEEN KEID BROWN KAT SWAN & STEINER 101 SECOND STREET, SUITE 1800 SAN FRANCISCO, CA JÄNIÑE L. SČÁNCARÉLLI FOLGER, LEVIN & KAHN, LLP 275 BATTERY STREET, 23RD FLOOR

SAN FRANCISCO, CA 94111jscancarelli@flk.com LISA WEINZIMER

PLATTS 695 NINTH AVENUE, NO. 2 SAN FRANCISCO, CA 94118lisa\_weinzimer@platts.com

ED LUCHA
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000, MAIL CODE: B9A
SAN FRANCISCO, CA 94177ell5@pge.com

SEBASTIEN CSAPO PACIFIC GAS AND ELECTRIC COMPANY PO BOX 770000 MAIL CODE B9A SAN FRANCISCO, CA 94177sscb@pge.com

GREG BLUE 140 MOUNTAIN PKWY. CLAYTON, CA 94517greg.blue@sbcglobal.net

SUE KATELEY
CALIFORNIA SOLAR ENERGY
INDUSTRIES ASSN
PO BOX 782
RIO VISTA, CA 94571info@calseia.org
JOSEPH HENRI
31 MIRAMONTE ROAD
WALNUT CREEK, CA
94597josephhenri@hotmail.com

STEVE ENDO
DEPARTMENT OF WATER & POWER
150 S LOS ROBLES AVE., STE. 200
PASADENA, CA
91101 sendo@ci, pasadena.ca.us
ROGER PELOTE
WILLIAMS POWER COMPANY
12736 CALIFA STREET
VALLEY VILLAGE, CA
91607 roger.pelote@williams.com

BARRY LOVELL 15708 POMERADO RD., SUITE 203 POWAY, CA 92064bjl@bry.com

YVONNE GROSS SEMPRA ENERGY 101 ASH STREET HQ08C SAN DIEGO, CA ANDREW MCALLISTER CALIFORNIA CENTER FOR SUSTAINABLE ENERGY 8690 BALBOA AVE., SUITE 100 SAN DIEGO, CA JOHN W. LESLIE LUCE, FORWARD, HAMILTON & SCRIPPS, 11988 EL CAMINO REAL, SUITE 200 SAN DIEGO, CA 92130jleslie@luce.com JAN PEPPER CLEAN POWER MARKETS, INC. 418 BENVENUE AVENUE PO BOX 3206 LOS ALTOS, CA HAYLEY GOODSON THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102hayley@turn.org

MICHAEL A. HYAMS SAN FRANCISCO PUBLIC UTILITIES COMM 1155 MARKET ST., 4TH FLOOR SAN FRANCISCO, CA ERIC WANLESS NATURAL RESOURCES DEFENSE COUNCIL 111 SUTTER STREET, 20TH FLOOR SAN FRANCISCO, CA SHERYL CARTER NATURAL RESOURCES DEFENSE COUNCIL 111 SUTTER STREET, 20TH FLOOR SAN FRANCISCO, CA 94104scarter@nrdc.org DAVID R MILLER TETRA TECH EM INC. 135 MAIN STREET, SUITE 1800 SAN FRANCISCO, CA 94105dave.millar@ttemi.com STEPHANIE LA SHAWN PACIFIC GAS AND ELECTRIC COMPANY 77 BEALE STREET, RM. 996B MAIL CODE B9A SAN FRANCISCO, CA 94105S1L7@pge.com JOSEPH F. WIEDMAN GOODIN MACBRIDE SQUERI DAY & LAMPREY LLP 505 SANSOME STREET, SUITE 900 SAN FRANCISCO, CA

GRACE LIVINGSTON-NUNLEY
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000 MAIL CODE B9A
SAN FRANCISCO, CA 94177gxl2@pge.com
SOUMYA SASTRY
PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000
MAIL CODE B9A
SAN FRANCISCO, CA 94177svs6@pge.com
DEAN R. TIBBS
ADVANCED ENERGY STRATEGIES, INC.
1390 WILLOW PASS ROAD, SUITE 610
CONCORD, CA 94520dtibbs@aes4u.com

SAN FRANCISCO COMMUNITY POWER

2325 3RD STREET, SUITE 344 SAN FRANCISCO, CA 94120steven@moss.net

STEVEN MOSS

JOSEPH M. PAUL DYNEGY, INC. 2420 CAMINO RAMON, SUITE 215 SAN RAMON, CA 94583Joe.paul@dynegy.com PATRICIA THOMPSON SUMMIT BLUE CONSULTING 2920 CAMINO DIABLO, SUITE 210 WALNUT CREEK, CA 94597pthompson@summitblue.com STEVEN G. LINS
CITY OF GLENDALE
613 EAST BROADWAY, SUITE 220
OFFICE OF THE CITY ATTORNEY
GLENDALE, CA 91206CASE ADMINISTRATION
SOUTHERN CALIFORNIA EDISON
COMPANY
2244 WALNUT GROVE AVE., RM. 370
ROSEMEAD, CA 91770case.admin@sce.com
AIMEE M. SMITH
SEMPRA ENERGY
101 ASH STREET HQ13
SAN DIEGO, CA 92101amsmith@sempra.com

JOHN LAUN APOGEE INTERACTIVE, INC. 1220 ROSECRANS ST., SUITE 308 SAN DIEGO, CA 92106jlaun@apogee.net

JACK BURKE
CALIFORNIA CENTER FOR SUSTAINABLE
ENERGY
8690 BALBOA AVE., SUITE 100
SAN DIEGO, CA
ORLANDO B. FOOTE, III
HORTON, KNOX, CARTER & FOOTE
895 BROADWAY, SUITE 101
EL CENTRO, CA 92243ofoote@hkcf-law.com

ADAMS, BROADWELL, JOSEPH &

GLORIA D. SMITH

CARDOZO 601 GATEWAY BLVD., SUITE 1000 SOUTH SAN FRANCISCO, CA MATTHEW FREEDMAN THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102freedman@turn.org NORMAN J. FURUTA FEDERAL EXECUTIVE AGENCIES 1455 MARKET ST., SUITE 1744 SAN FRANCISCO, CA 94103-1399norman.furuta@navv.mil KAREN TERRANOVA ALCANTAR & KAHL, LLP 120 MONTGOMERY STREET, STE 2200 SAN FRANCISCO, CA 94104filings@aklaw.com ASHLEE M. BONDS THELEN REID BROWN RAYSMAN&STEINER LLP 101 SECOND STREET **SUITE 1800** DEBORAH BROCKETT NAVIGANT CONSULTING, INC.

SPEAR STREE TOWER, SUITE 1200
SAN FRANCISCO, CA

CALIFORNIA ENERGY MARKETS
517-B POTRERO AVENUE
SAN FRANCISCO, CA
94110cem@newsdata.com
MARTIN A. MATTES
NOSSAMAN, GUTHNER, KNOX &
ELLIOTT, LLP
50 CALIFORNIA STREET, 34TH FLOOR
SAN FRANCISCO, CA
SHAUN ELLIS
2183 UNION STREET
SAN FRANCISCO, CA

ONE MARKET STREET

94123sellis@fypower.org JASMIN ANSAR PG&E PO BOX 770000 MAIL CODE B24A SAN FRANCISCO, CA 94177jxa2@pge.com VALERIE J. WINN PACIFIC GAS AND ELECTRIC COMPANY PO BOX 770000, B9A SAN FRANCISCO, CA 94177-0001vjw3@pge.com JEFFREY L. HAHN COVANTA ENERGY CORPORATION 876 MT. VIEW DRIVE LAFAYETTE, CA 94549jhahn@covantaenergy.com MONICA A. SCHWEBS, ESQ. BINGHAM MCCUTCHEN LLP 1333 N. CALIFORNIA BLVD. SUITE 210 WALNUT CREEK, CA WILLIAM F. DIETRICH

DIETRICH LAW 2977 YGNACIO VALLEY ROAD, 613

WALNUT CREEK, CA 94598-3535dietrichlaw2@earthlink.net TOM HAMILTON
ENERGY CONCIERGE SERVICES
321 MESA LILA RD
GLENDALE, CA
91208THAMILTON5@CHARTER.NET
CATHY KARLSTAD
SOUTHERN CALIFORNIA EDISON
COMPANY
2244 WALNUT GROVE AVE.
ROSEMEAD, CA
ÄLDYN HÖEKSTRÄ
PACE GLOBAL ENERGY SERVICES
420 WEST BROADWAY, 4TH FLOOR
SAN DIEGO, CA
92101aldyn.hoekstra@paceglobal.com

KIM KIENER 504 CATALINA BLVD. SAN DIEGO, CA 92106kmkiener@fox.net

JENNIFER PORTER
CALIFORNIA CENTER FOR SUSTAINABLE
ENERGY
8690 BALBOA AVENUE, SUITE 100
SAN DIEGO, CA
ELSTON K. GRUBAUGH
IMPERIAL IRRIGATION DISTRICT
333 EAST BARIONI BLVD.
IMPERIAL, CA 92251ekgrubaugh@iid.com

MARC D. JOSEPH ADAMS BRADWELL JOSEPH & CARDOZO 601 GATEWAY BLVD. STE 1000 SOUTH SAN FRANCISCO, CA 94080mdjoseph@adamsbroadwell.com

MICHEL FLORIO 711 VAN NESS AVE., STE. 350 SAN FRANCISCO, CA 94102mflorio@turn.org

ANNABELLE MALINS
BRITISH CONSULATE-GENERAL
ONE SANSOME STREET, SUITE 850
SAN FRANCISCO, CA
94104annabelle.malins@fco.gov.uk
NORA SHERIFF
ALCANTAR & KAHL, LLP
120 MONTGOMERY STREET, SUITE 2200
SAN FRANCISCO, CA 94104nes@a-klaw.com

CARMEN E. BASKETTE 594 HOWARD ST., SUITE 400 SAN FRANCISCO, CA 94105cbaskette@enernoc.com

KEVIN FOX

WILSON SONSINI GOODRICH & ROSATI
ONE MARKET STREET, SPEAR TOWER,
3300
SAN FRANCISCO, CA 94105kfox@wsgr.com
HOWARD V. GOLUB
NIXON PEABODY LLP
2 EMBARCADERO CENTER, STE. 2700
SAN FRANCISCO, CA
9411 Ingolub@nixonpeabody.com
JEN MCGRAW
CENTER FOR NEIGHBORHOOD
TECHNOLOGY
PO BOX 14322
SAN FRANCISCO, CA 94114jen@cnt.org
ARNO HARRIS
RECURRENT ENERGY, INC.
220 HALLECK ST., SUITE 220
SAN FRANCISCO, CA
94129arn@crecurrentergy.com
JONATHAN FORRESTER
PG&E
PO POX 770000

TECHNOLOGY
PO BOX 14322
SAN FRANCISCO, CA 94114jen@cnt.org
ARNO HARRIS
RECURRENT ENERGY, INC.
220 HALLECK ST., SUITE 220
SAN FRANCISCSO, CA
94129arno@recurrentenergy.com
JONATHAN FORRESTER
PG&E
PO BOX 770000
MAIL CODE N13C
SAN FRANCISCO, CA
FÄRRÖKH ÄLBUYEH
OPEN ACCESS TECHNOLOGY
INTERNATIONAL INC
1875 SOUTH GRANT STREET
SUITE 910
ÄNDREW J. VAN HORN
VAN HORN CONSULTING
12 LIND COURT
ORINDA, CA
94563andy.vanhorn@vhcenergy.com
PETER W. HANSCHEN
MORRISON & FOERSTER, LLP
101 YGNACIO VALLEY ROAD, SUITE 450
WALNUT CREEK, CA
94596phanschen@mofo.com
BETIY SETO
KEMA, INC.
492 NINTH STREET, SUITE 220
OAKLAND, CA 94607Betty.Seto@kema.com

GERALD L. LAHR ABAG POWER 101 EIGHTH STREET OAKLAND, CA 94607JerryL@abag.ca.gov

BARTLE WELLS ASSOCIATES 1889 ALCATRAZ AVENUE BERKELEY, CA 94703rschmidt@bartlewells.com

CARLA PETERMAN

REED V SCHMIDT

UCEI 2547 CHANNING WAY BERKELEY, CA 94720carla.peterman@gmail.com PHILLIP J. MULLER SCD ENERGY SOLUTIONS 436 NOVA ALBION WAY

SAN RAFAEL, CA 94903philm@scdenergy.com MAHLON ALDRIDGE

ECOLOGY ACTION PO BOX 1188

SANTA CRUZ, CA 95060emahlon@ecoact.org

BARBARA R. BARKOVICH BARKOVICH & YAP, INC. 44810 ROSEWOOD TERRACE MENDOCINO, CA 95460brbarkovich@earthlink.net CAROLYN M. KEHREIN ENERGY MANAGEMENT SERVICES 1505 DUNLAP COURT DIXON, CA 95620-4208cmkehrein@emsca.com ROBIN SMUTNY-IONES CALIFORNIA ISO

LAURIE PARK NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670-6078lpark@navigantconsulting.com

FOLSOM, CA 95630rsmutny-jones@caiso.com

CURT BARRY 717 K STREET SUITE 503 SACRAMENTO, CA 95814curt.barry@iwpnews.com

151 BLUE RAVINE ROAD

WEBSTER TASAT AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 95814wtasat@arb.ca.gov

LYNN HAUG ELLISON, SCHNEIDER & HARRIS, LLP 2015 H STREET SACRAMENTO, CA 95816lmh@eslawfirm.com DOUGLAS MACMULLLEN CA DEPARTMENT OF WATER RESOURCES 3310 EL CAMINO AVE., ROOM 356 SACRAMENTO, CA ANNIE STANGE

ALCANTAR & KAHL 1300 SW FIFTH AVE., SUITE 1750 PORTLAND, OR 97201sas@a-klaw.com

KYLESILON ECOSECURITIES CONSULTING LIMITED 529 SE GRAND AVENUE PORTLAND, OR 97214kyle.silon@ecosecurities.com

LISA SCHWARTZ ORGEON PUBLIC UTILITY COMMISSION PO BOX 2148

SALEM, OR 97308-2148lisa.c.schwartz@state.or.us

James Loewen CALIF PUBLIC UTILITIES COMMISSION 320 WEST 4TH STREET SUITE 500 RATEMAKING BRANCH

LOS ANGELES, CA 90013loe@cpuc.ca.gov Christine S. Tam
CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE ROOM 4209

SAN FRANCISCO, CA 94102-

Harvey Y. Morris CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5036

SAN FRANCISCO, CA 94102-

Jonathan Lakritz CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5020

SAN FRANCISCO, CA 94102-

JODY S. LONDON JODY LONDON CONSULTING PO BOX 3629 OAKLAND, CA 94609jody\_london\_consulting@earthlink.net ADAM BRIONES

THE GREENLINING INSTITUTE 1918 UNIVERSITY AVENUE, 2ND FLOOR BERKELEY, CA 94704adamb@greenlining.org

LAWRENCE BERKELEY NATIONAL LABORATORY BUILDING 90-4000 BERKELEY, CA 94720elvine@lbl.gov RITA NORTON RITA NORTON AND ASSOCIATES, LLC 18700 BLYTHSWOOD DRIVE, LOS GATOS, CA 95030rita@ritanortonconsulting.com RICHARD SMITH MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95352-4060richards@mid.org

JOHN R. REDDING ARCTURUS ENERGY CONSULTING 44810 ROSEWOOD TERRACE MENDOCINO, CA 95460johnrredding@earthlink.net

CALIFORNIA ISO LEGAL AND REGULATORY DEPARTMENT FOLSOM, CA 95630e-recipient@caiso.com SAEED FARROKHPAY FEDERAL ENERGY REGULATORY COMMISSION 110 BLUE RAVINE RD., SUITE 107 FOLSOM, CA SCOTT TOMASHEFSKÝ NORTHERN CALIFORNIA POWER AGENCY 180 CIRBY WAY ROSEVILLE, CA 95678-DAVID L. MODISETTE CALIFORNIA ELECTRIC TRANSP. COALITION

1015 K STREET, SUITE 200 SACRAMENTO, CA 95814dave@ppallc.com

WEBSTER TASAT AIR RESOURCES BOARD 1001 I STREET

SACRAMENTO, CA 95814wtasat@arb.ca.gov

OBADIAH BARTHOLOMY SACRAMENTO MUNICIPAL UTILITY 6201 S. STREET M.S. B257 KAREN NORENE MILLS

CALIFORNIA FARM BUREAU FEDERATION

2300 RIVER PLAZA DRIVE SACRAMENTO, CA 95833kmills@cfbf.com

ELIZABETH WESTBY ALCANTAR & KAHL, LLP 1300 SW FIFTH AVENUE, SUITE 1750 PORTLAND, OR 97201egw@a-klaw.com

CATHIE ALLEN PACIFICORP 825 NE MULTNOMAH STREET, SUITE 2000 PORTLAND, OR 97232californiadockets@pacificorp.com

CLARE BREIDENICH 224 1/2 24TH AVENUE EAST SEATTLE, WA 98112cbreidenich@yahoo.com

Andrew Campbell CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5203 SAN FRANCISCO, CA 94102-

Donald R. Smith
CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4209 SAN FRANCISCO, CA 94102-

Jaclyn Marks CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5306

SAN FRANCISCO, CA 94102-Judith Ikle

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 4012

SAN FRANCISCO, CA 94102-

STEVEN SCHILLER SCHILLER CONSULTING, INC. 111 HILLSIDE AVENUE PIEDMONT, CA 94611steve@schiller.com

CLYDE MURLEY 1031 ORDWAY STREET ALBANY, CA 94706clyde.murley@comcast.net

RYAN WISER

BERKELEY LAB ONE CYCLOTRON ROAD MS-90-4000 BERKELEY, CA 94720rhwiser@lbl.gov CARL PECHMAN POWER ECONOMICS 901 CENTER STREET SANTA CRUZ, CA 95060cpechman@powereconomics.com

CHRISTOPHER J. MAYER
MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354chrism@mid.org

CLARK BERNIER RLW ANALYTICS 1055 BROADWAY, SUITE G SONOMA, CA 95476clark.bernier@rlw.com

GRANT ROSENBLUM, ESQ. CALIFORNIA ISO 151 BLUE RAVINE ROAD LEGAL AND REGULATORY DEPARTMENT FOLSOM, CA 95630grosenblum@caiso.com

DAVID BRANCHCOMB BRANCHCOMB ASSOCIATES, LLC 9360 OAKTREE LANE

ORANGEVILLE, CA 95662david@branchcomb.com ELLEN WOLFE

RESERO CONSULTING 9289 SHADOW BROOK PL.

LARRY HUNSAKER

GRANITE BAY, CA 95746ewolfe@resero.com

AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 958141hunsake@arb.ca.gov STEVEN KELLY INDEPENDENT ENERGY PRODUCERS ASSN 1215 K STREET, SUITE 900 SACRAMENTO, CA 95814-BUD BEEBE SACRAMENTO MUNICIPAL UTIL DIST 6201 S STREET

MS B257 SACRAMENTO, CA 95817-KAREN LINDH LINDH & ASSOCIATES 7909 WALERGA ROAD, NO. 112, PMB 119 ANTELOPE, CA 95843karen@klindh.com

ALEXIA C. KELLY THE CLIMATE TRUST 65 SW YAMHILL STREET, SUITE 400 PORTLAND, OR 97204akelly@climatetrust.org

PHIL CARVER OREGON DEPARTMENT OF ENERGY 625 MARION ST., NE SALEM, OR 97301-3737Philip.H.Carver@state.or.us JESUS ARREDONDO NRG ENERGY INC. 4600 CARLSBAD BLVD. CARLSBAD, CA 99208jesus.arredondo@nrgenergy.com

Anne Gillette

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE AREA 4-A SAN FRANCISCO. CA 94102-

Ed Moldavsky CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE ROOM 5130

SAN FRANCISCO, CA 94102-Jeorge S. Tagnipes CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE AREA 4-A

SAN FRANCISCO, CA 94102-Julie A. Fitch

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5119

SAN FRANCISCO, CA 94102-

MRW & ASSOCIATES, INC. 1814 FRANKLIN STREET, SUITE 720 OAKLAND, CA 94612mrw@mrwassoc.com

BRENDA LEMAY

HORIZON WIND ENERGY 1600 SHATTUCK, SUITE 222 BERKELEY, CA 94709brenda.lemay@horizonwind.com CHRIS MARNAY 1 CYCLOTRON RD MS 90R4000 BERKELEY LAB BERKELEY, CA 94720-8136C\_Marnay@1b1.gov KENNY SWAIN POWER ECONOMICS 901 CENTER STREET SANTA CRUZ, CA 95060kswain@powereconomics.com ROGER VAN HOY MODESTO IRRIGATION DISTRICT 1231 11TH STREET

RICHARD MCCANN, PH.D 2655 PORTAGE BAY, SUITE 3 DAVIS, CA 95616rmccann@umich.edu

MODESTO, CA 95354rogerv@mid.org

KAREN EDSON 151 BLUE RAVINE ROAD FOLSOM, CA 95630

KIRBY DUSEL NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670kdusel@navigantconsulting.com AUDRA HARTMANN 980 NINTH STREET, SUITE 2130 SACRAMENTO, CA 95814Audra.Hartmann@Dynegy.com

RACHEL MCMAHON CEERT 1100 11TH STREET, SUITE 311 SACRAMENTO, CA 95814rachel@ceert.org

EDWARD J. TIEDEMANN KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD 400 CAPITOL MALL, 27TH FLOOR SACRAMENTO, CA 95814-BALWANT S. PÜREWAL DEPARTMENT OF WATER RESOURCES 3310 EL CAMINO AVE., LL-90 SACRAMENTO, CA 95821bpurewal@water.ca.gov DENISE HILL 4004 KRUSE WAY PLACE, SUITE 150 LAKE OSWEGO, OR 97035Denise\_Hill@transalta.com

ALAN COMNES WEST COAST POWER 3934 SE ASH STREET PORTLAND, OR 97214alan.comnes@nrgenergy.com

SAM SADLER OREGON DEPARTMENT OF ENERGY 625 NE MARION STREET SALEM, OR 97301-3737samuel.r.sadler@state.or.us

KAREN MCDONALD POWEREX CORPORATION 666 BURRAND STREET 1400. VANCOUVER, BC V6C

Charlotte TerKeurst

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE ROOM 5117

SAN FRANCISCO, CA 94102-

Eugene Cadenasso CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE AREA 4-A SAN FRANCISCO, CA 94102-

Joel T. Perlstein

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE ROOM 5133 SAN FRANCISCO, CA 94102-

Kristin Ralff Douglas CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

ROOM 5119

SAN FRANCISCO, CA 94102-

Lainie Motamedi

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE ROOM 5119

SAN FRANCISCO, CA 94102-

Nancy Rvan CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

ROOM 5217

SAN FRANCISCO, CA 94102-

Scott Murtishaw

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-

Tim G. Drew CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

AREA 4-A SAN FRANCISCO, CA 94102-

JÜLİE GÎLL

CALIFORNIA INDEPENDENT SYSTEM

OPERATOR

151 BLUE RAVINE ROAD

FOLSOM, CA 95630jgill@caiso.com

MEG GOTTSTEIN

PO BOX 210/21496 NATIONAL STREET VOLCANO, CA 95689gottstein@volcano.net

Don Schultz

CALIF PUBLIC UTILITIES COMMISSION

770 L STREET, SUITE 1050 ELECTRICITY RESOURCES & PRICING

BRANCH

PIERRE H. DUVAIR

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET, MS-41

SACRAMENTO, CA

95814pduvair@energy.state.ca.us

HOLLY B. CRONIN CALIFORNIA DEPARTMENT OF WATER

RESOURCES

3310 EL CAMINO AVE., LL-90

SACRAMENTO, CA

Matthew Deal

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

AREA 4-A

SAN FRANCISCO, CA 94102-

Pamela Wellner

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE AREA 4-A

SAN FRANCISCO, CA 94102-

Steve Roscow

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-

BILL LOCKYER STATE OF CALIFORNIA, DEPT OF JUSTICE

PO BOX 944255 SACRAMENTO, CA 94244-2550ken.alex@doj.ca.gov

MARY MCDONALD

CALIFORNIA INDEPENDENT SYSTEM OPERATOR

151 BLUE RAVINE ROAD

FOLSOM, CA 95630 PAM BURMICH

AIR RESOURCES BOAD 1001 I STREET, BOX 2815

SACRAMENTO, CA

95812pburmich@arb.ca.gov

KAREN GRIFFIN

CALIFORNIA ENERGY COMMISSION

1516 9TH STREET, MS 39

SACRAMENTO, CA 95814kgriffin@energy.state.ca.us

Wade McCartney

CALIF PUBLIC UTILITIES COMMISSION 770 L STREET, SUITE 1050

DIVISION OF STRATEGIC PLANNING

SACRAMENTO, CA 95814wsm@cpuc.ca.gov

Meg Gottstein

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

ROOM 2106

SAN FRANCISCO, CA 94102-

Paul S. Phillips CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE ROOM 4101

SAN FRANCISCO, CA 94102-

Suzy Hong

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

ROOM 5037

SAN FRANCISCO, CA 94102-

KEN ALEX 1300 I STREET, SUITE 125

PO BOX 944255

SACRAMENTO, CA 94244-2550ken.alex@doj.ca.gov

PHILIP D. PETTINGILL CALIFORNIA INDEPENDENT SYSTEM

OPERATOR

151 BLUE RAVINE ROAD FOLSOM, CA 95630ppettingill@caiso.com

B. B. BLEVINS

CALIFORNIA ENERGY COMMISSION 1516 9TH STREET, MS-39

SACRAMENTO, CA

95814bblevins@energy.state.ca.us

LISA DECARLO

CALIFORNIA ENERGY COMMISSION

1516 9TH STREET MS-14 SACRAMENTO, CA 95814ldecarlo@energy.state.ca.us

ANDREW ULMER

CALIFORNIA DEPARTMENT OF WATER

RESOURCES 3310 EL CAMINO AVENUE, SUITE 120

SACRAMENTO, CA

Merideth Sterkel

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

AREA 4-A SAN FRANCISCO, CA 94102-

Sara M Kamins

CALIF PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE AREA 4-A

SAN FRANCISCO, CA 94102-

Theresa Cho

CALIF PUBLIC UTILITIES COMMISSION 505 VAN NESS AVENUE

ROOM 5207

SAN FRANCISCO, CA 94102-JUDITH B. SANDERS CALIFORNIA INDEPENDENT SYSTEM

151 BLUE RAVINE ROAD FOLSOM, CA 95630jsanders@caiso.com

MICHAEL SCHEIBLE

CALIFORNIA AIR RESOURCES BOARD

1001 LSTREET SACRAMENTO, CA 95677mscheibl@arb.ca.gov

DEBORAH SLON

OFFICE OF THE ATTORNEY GENERAL 1300 I STREET, 15TH FLOOR

SACRAMENTO, CA

95814deborah.slon@doi.ca.gov

MICHELLE GARCIA AIR RESOURCES BOARD

1001 I STREET

SACRAMENTO, CA 95814mgarcia@arb.ca.gov

CAROL J. HURLOCK

CALIFORNIA DEPT. OF WATER

RESOURCES 3310 EL CAMINO AVE. RM 300

JOINT OPERATIONS CENTER