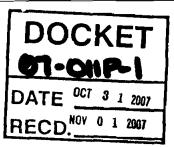
## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework and to Examine the Integration of Greenhouse Gas	) Rulemaking 06-04-009 ) (Filed April 13, 2006)
Emissions Standards into Procurement Policies	(2.10-3-4-1)



COMMENTS OF MORGAN STANLEY CAPITAL GROUP INC.
ON THE ADMINISTRATIVE LAW JUDGE'S RULING REQUESTING COMMENTS
AND NOTICING WORKSHOP ON ALLOWANCE ALLOCATION ISSUES

Catherine M. Krupka Adam J. Katz McDermott Will & Emery LLP 600 Thirteenth Street, NW Washington, DC 20005 Tel: (202) 756-8000

Fax: (202) 756-8087

Email: ckrupka@mwe.com

ajkatz@mwe.com

Attorneys for Morgan Stanley Capital Group Inc.

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

Order Instituting Rulemaking to Implement the	
Commission's Procurement Incentive Framework	) Rulemaking 06-04-009
and to Examine the Integration of Greenhouse Gas	(Filed April 13, 2006)
Emissions Standards into Procurement Policies	

# COMMENTS OF MORGAN STANLEY CAPITAL GROUP INC. ON THE ADMINISTRATIVE LAW JUDGE'S RULING REQUESTING COMMENTS AND NOTICING WORKSHOP ON ALLOWANCE ALLOCATION ISSUES

#### I. INTRODUCTION

Pursuant to the October 15, 2007 ruling of Administrative Law Judges Charlotte F. TerKeust and Jonathan Lakritz, Morgan Stanley Capital Group Inc. ("MSCG") respectfully submits its comments on issues related to the distribution of greenhouse gas ("GHG") emission allowances.<sup>1</sup>

#### II. COMMENTS

MSCG prefaces these comments by reiterating its long-standing belief that California should auction GHG emission allowances rather than allocate allowances administratively.<sup>2</sup> Auctions are preferable because they would promote market liquidity and afford an opportunity to any party that needs an allowance to procure one. Moreover, auctions would avoid the administrative battles over

Administrative Law Judge's Ruling Requesting Comments and Noticing Workshop on Allowance Allocation Issues, Order Instituting Rulemaking to Implement the Commission's Procurement Incentive Framework and to Examine the Integration of Greenhouse Gas Emissions Standards into Procurement Policies (Docket No. R.06-04-009) (issued Oct. 10, 2007).

<sup>&</sup>lt;sup>2</sup> See, e.g., Reply Comments of Morgan Stanley Capital Group Inc. on the Market Advisory Committee to the California Air Resources Board's Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for 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 (Docket No. R.06-04-009) at 10-14, 21 (filed Aug. 15, 2007); Comments of Morgan Stanley Capital Group Inc. on the Market Advisory Committee to the California Air Resources Board's Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for 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 (Docket No. R.06-04-009) at 21-22 (filed Aug. 6, 2007).

which entities will or will not receive free allowances. Finally, the experience under the European Union Emission Trading Scheme demonstrates that distributing allowances for free can lead entities to forego selling their unneeded allowances, creating an illiquid situation early on as excess allowances sit stagnant without corresponding benefits to end-users. To address such problems, Europe has turned to an auction-based approach.

Auctioning 100% of California's GHG emissions allowances also would be consistent with current state and federal climate change trends. For example, states participating in the Regional Greenhouse Gas Initiative have embraced allowance auctions. An overwhelming majority of the federal climate change bills pending in the U.S. Congress also have embraced the concept of allowance auctions expressly or implicitly.<sup>3</sup> The only arguments supporting administrative allocation of allowances pertain to issues of "equity." However, California can address any perceived equity concerns through the assignment of auction revenue rights ("ARRs").

As explained below, MSCG's preference for auctions over administrative allocation does not differ based on whether California adopts a load-based or first-seller approach. Further, MSCG believes auctions would be equally efficacious for the electricity and natural gas markets.<sup>4</sup>

\_

<sup>&</sup>lt;sup>3</sup> See, e.g., Climate Stewardship and Innovation Act of 2007 (S.280); Global Warming Pollution Reduction Act (S.309); Electric Utility Cap and Trade Act of 2007 (S.317); Global Warming Reduction Act of 2007 (S.485); Low Carbon Economy Act (S.1227), America's Climate Security Act of 2007 (S.2191); all introduced in the 110<sup>th</sup> Congress.

<sup>&</sup>lt;sup>4</sup> See, e.g., Reply Comments of Morgan Stanley Capital Group Inc. on the Market Advisory Committee to the California Air Resources Board's Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for 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 (Docket No. R.06-04-009) at 3 (filed Aug. 15, 2007) ("MSCG has stated repeatedly in its comments ... that a source-based emissions design is superior to load-based model.").

#### A. Evaluation Criteria

Q1. Please comment on each of the criteria listed by the MAC. Are these criteria consistent with AB 32? Should other criteria be added, such as criteria specific to the electricity and/or natural gas sectors? In making trade-offs among the criteria, which criteria should receive the most weight and which the least weight?

On June 30, 2007, the Market Advisory Committee ("MAC") issued a report offering its recommendations on the best design options for a mandatory GHG cap-and-trade system in California.<sup>5</sup> With respect to allowance distribution, the MAC suggested an "approach in which some share of allowances is allocated free of charge initially, while the remaining allowances are auctioned. The percentage of allowances auctioned should then increase over time." To achieve this, the MAC "strongly recommend[ed]" that California distribute allowances in a manner that advances eight principles. MSCG offers comments on the following recommended principles. 8

• Principle c: Promotes investment in low-GHG technologies and fuels (including energy efficiency).

A primary benefit of a cap-and-trade program, as recognized by AB 32 and the MAC Report, is that it would allow for the use of a market-based system to meet California's goal of

<sup>&</sup>lt;sup>5</sup> Recommendations for Designing a Greenhouse Gas Cap-and-Trade System for California: Recommendations of the Market Advisory Committee to the California Air Resources Board (issued June 30, 2007) ("MAC Report").

<sup>&</sup>lt;sup>6</sup> MAC Report at iv (emphasis omitted).

<sup>&</sup>lt;sup>7</sup> MAC Report at 55. The MAC suggests that allowances be distributed in a manner that: (a) reduces the cost of the program to consumers, especially low-income consumers; (b) avoids windfall profits where such profits could occur; (c) promotes investment in low-GHG technologies and fuels (including energy efficiency); (d) advances the state's broader environmental goals by ensuring that environmental benefits accrue to overburdened communities; (e) mitigates economic dislocation caused by competition from firms in uncapped jurisdictions; (f) avoids perverse incentives that discourage or penalize investments in low-GHG technologies and fuels (including energy efficiency); (g) provides transition assistance to displaced workers; and (h) helps to ensure market liquidity. *Id*.

<sup>&</sup>lt;sup>8</sup> MSCG takes no position concerning the consistency of MAC's recommended principles with AB 32.

low-cost emissions reduction. MSCG expects that low-GHG emitting technologies and fuels, including energy efficiency, will likely be the most significant contributors to California's effort to reduce GHG emissions. However, the reason for choosing a market-based cap-and-trade approach is that the market will reflect the best collective thinking on how to achieve low-cost emissions reduction. Promoting investment in low-GHG technologies (or any other particular technology, for that matter) would contradict two other key principles governing allowance distribution.

First, promoting investment in one technology over others conflicts with the MAC's recommended "principle f" as amended by MSCG below – avoiding perverse incentives – because any preference inherently is just such an incentive. Second, promoting a particular technology rather than allowing the market to decide what is best would be antithetical to "principle a" (i.e., reducing the cost of the GHG program to consumers, especially low-income consumers). If California encourages investment in any particular technology or technologies, and those choices are different than those the market would have made, then those choices will result in incremental costs that provide no incremental reduction in GHG emissions. Furthermore, those incremental costs will accrue to end users (including low-income consumers), who almost certainly will pay more than they would have if the market had selected the technologies in which to invest.

 Principle f: Avoids perverse incentives that discourage or penalize investments in low-GHG technologies and fuels (including energy efficiency).

MSCG strongly supports the principle of avoiding perverse incentives of any kind, not solely concerning investments in low-GHG technologies. Accordingly, MSCG recommends

MAC Report at iii (AB 32 "recognizes that a market-based system can be used ... to meet an economy-wide emissions reduction target."); AB 32 at § 38562(b)(1) (ordering CARB to "design the regulations, including distribution of emissions allowances where appropriate in a manner that ... seeks to minimize costs...."); AB 32 at § 38562(b)(5) (requiring CARB to consider the cost-effectiveness of its regulations).

truncating this criterion after the third word such that the principle becomes "Avoids perverse incentives."

Principle h: Helps to ensure market liquidity.

Market liquidity is crucial to smooth functioning of a cap-and-trade system, regardless of whether the cap-and-trade system is source-based or delivery-based. Thus, MSCG strongly supports adoption of this principle.

#### B. Basic Options

Q2. Broadly speaking, should emission allowances be auctioned or allocated administratively, or some combination?

MSCG strongly supports auctioning 100% of California's GHG emissions allowances, but believes the State should assign ARRs to end-users (*i.e.*, those most likely to feel the greatest impact of any increase in electric prices resulting from emissions reduction compliance).

Q3. If you recommend partial auctioning, what proportion should be auctioned? Should the percentage of auctioning change over time? If so, what factors should be used to design the transition toward more auctioning?

No response provided.

Q4. How should new market entrants, such as energy service providers, community choice aggregators, or (deliverer/first seller system only) new importers, obtain emission allowances, i.e., through auctioning, administrative allocation, or some combination?

Auctions are preferable to administrative allocation because auctions ensure that those ultimately responsible for surrendering allowances in California have easy market access to them.

With auctions, California also could avoid administrative battles over who receives allocations and how many allowances each recipient receives.

Auctions would be especially preferable for protecting the needs and interests of new market entrants. New entrants likely would enter the market after California holds its allowance

determination proceedings. Consequently, new entrants may miss their window of opportunity to receive a free allowance allocation that they otherwise would have been eligible for under the allocation criteria.

If California adopts an administrative allocation paradigm, it would have to consider whether to reserve any allowances for new market entrants. This, in turn, raises the question of what to do with any reserved allowances that go unclaimed. In addition, while the secondary market should make initially-allocated allowances available to new entrants, they would face an equity issue relative to their competitors, who presumably received free allocations. Auctioning 100% of allowances would eliminate these administrative problems.

#### C. Auctioning GHG Emissions Allowances – General Questions

### Q5. What are the important policy considerations in the design of an auction?

California's auction oversight agency should strive to ensure that market participants view its auctions as timely, equitable, and predictable. To do so, California should consider the following when designing an emissions auction.

- Holding auctions at regularly scheduled intervals.
- Publishing an auction schedule that indicates future auction dates several years in advance and updating the schedule on a rolling basis.
- Publishing the quantity of allowances that will be available at each auction when it publishes
  the auction schedule.
- Auctioning level quantities of allowances in each auction, while also ensuring compliance with the decreasing emissions cap over time.<sup>10</sup>

<sup>&</sup>lt;sup>10</sup> For example, if California elects to hold an allowance auction every quarter, a level auction would be achieved by auctioning 25% of the allowances each time as compared to allocating 20% first quarter, 40% second quarter, 10% third quarter, and 30% fourth quarter.

MSCG's proposed principles will help promote confidence in California's auction irrespective of whether the State auctions 100% of allowances.

Q6. How often should emission allowances be auctioned? How does the timing and frequency of auctions relate to the determination of a mandatory compliance period, if at all?

California should hold auctions no more frequently than quarterly and no less frequently than annually. Regular, smaller auctions will ensure that participation is manageable for capital-constrained entities. As compared to larger, irregular auctions, auctions held on a regular basis and for smaller allowance amounts also should increase the likelihood that market participants purchase all the allowances that California offers in a particular auction.

Q7. How should market power concerns be addressed in auction design? If emission allowances are auctioned, how would the administrators of such a program ensure that all market participants are participating in the program and acting in good faith?

First, it is not clear that there are any market power concerns. However, if market power is a risk, the very nature of an open, repeating auction diminishes such risk. California could consider limiting the volume of allowances available to any single participant if market power becomes a real concern.

Q8. What criteria should be used to designate the types of expenditures that could be made with auction revenues (including use to reduce end user rates), and the distribution of money within those categories?

California should direct the benefits of allowances, whether allocated or monetized as ARRs, to consumers rather than to load serving entities ("LSEs"), distribution utilities, or generators. This would provide rate relief to those most burdened by the costs of GHG reduction, instead of ending up as subsidies to incumbents or favored new technology ventures.

Q9. What type of administrative structure should be used for the auction? Should the auction be run by the State or some other independent entity, such as the nonprofit organization being established by the Regional Greenhouse Gas Initiative?

No response provided.

#### D. Electricity Sector

- 1. Administrative Allocation of Emission Allowances
- Q10. If some or all allowances are allocated administratively, which of the above method or methods should be used for the initial allocations? If you prefer an option other than one of those listed above, describe your preferred method in detail. In addition to your recommendation, comment on the pros and cons of <a href="mailto:each">each</a> method listed above, especially regarding the impact on market performance, prices, costs to customers, distributional consequences, and effect on new entrants.

For all the reasons discussed throughout these comments, California should not allocate allowances. However, should it elect to allocate allowances, then any administrative allocation methodology design should attempt to maximize incentives for initial allocation recipients to move unneeded GHG emission allowances into the secondary market as quickly as possible. The design also should be adaptable to changing market conditions. Finally, the design should not provide artificial incentives to keep high-emitting units operational when it makes no economic sense to do so. Applying the foregoing criteria, updating would be the best methodology, grandfathering the least, with benchmarking falling somewhere in between. <sup>11</sup>

MAC Report at 93 (defining "[g]randfathering" as "[a] method by which emission allowances are freely distributed to entities covered under an emissions trading program based on historic emissions"); at 90 (defining "[b]enchmarking" as "[a]n allowance allocation method in which allowances are distributed by setting a level of permitted emissions per unit of input or output"); and 96 (defining "[u]pdating" as "[a] form of allowance allocation in which allocations are reviewed and changed over time and/or awarded on the basis of changing circumstances (such as output) rather than historical data (such as emissions, input or output). For example, allowances might be distributed based on megawatthours generated or tons of a product manufactured").

Updating is the least problematic way for California to allocate allowances because it would allow for review and change over time. It also would take into account the fact that the emissions market will be fluid, thereby providing California the flexibility to react as market and environmental circumstances change over the duration of California's decades-long attempt to reduce emissions. In other words, updating would be the best way to allocate administratively because it would be the least static.

# Q11. Should the method for allocating emission allowances remain consistent from one year to the next, or should it change as the program is implemented?

California must strike a subtle balance between two important goals – certainty and flexibility over time. All market participants will want to be able to engage in reasoned business planning, avoid legal and franchise risks, and mitigate compliance costs without fear that material aspects of California's emissions reduction program will change. Thus, California must signal a commitment to its plan so that affected parties do not wait before taking serious and costly steps towards emissions reduction. Commitment to an approach will yield certainty and thus productive action.

On the other hand, emissions reduction is a 40-year effort and it is impossible to foresee with 100% accuracy what might happen in the future. Therefore, California needs some ability to change its allocation methodology to reflect changed circumstances.

Because of the importance of both of these goals, California should consider carefully whether any change to its emission allocation methodology is worth the sacrifice of certainty. If the answer is yes, then California should: (1) provide affected parties with adequate notice of the proposed change; (2) provide affected parties an opportunity to comment on the proposed change; and (3) implement any changes according to a predetermined schedule published well in advance of

the change. This approach will ensure that participants can plan based on a known program, thereby promoting certainty while accommodating necessary change.

Q12. If new market entrants receive emission allowance allocations, how would the proper level of allocations be determined for them?

No response provided.

Q13. If emission allowances are allocated based on load/sales, population, or other factors that change over time, how often should the allowance allocations be updated?

Fairness requires that California review and update the allocation factors for each allocation event. For example, if California allocates allowances once per year, then it would review the allocation factors once per year. The necessity of performing this task is another argument in favor of auctions, which would avoid the entire issue.

Q14. If emission allowances are allocated based on historical emissions ("grandfathering") or benchmarking, what base year(s) should be used as the basis for those allocations?

California should use the most recent period for which data is available. This is consistent with MSCG's view that California should strive for an allowance allocation system that is adaptable to changing circumstances, and that updating is the best method of administrative allocation.

Q15. If emission allowances are allocated based initially on historical emissions ("grandfathering"), should the importance of historical emissions in the calculation of allowances be reduced in subsequent years as providers respond to the need to reduce GHGs? If so, how should this be accomplished? By 2020, should all allocations be independent of pre-2012 historical emissions?

If California were to allocate emission allowances initially by grandfathering, MSCG would support phased-reductions with total independence of pre-2012 historical emissions by 2020.

MSCG has no specific recommendation as to how the State should calculate the phase-down.

However, MSCG strongly advises that California set the phase-down schedule at the beginning of the program and adhere to it without change. Adjusting the phase-down based on recent history

creates a perverse incentive for recipients to adjust their behavior in order to affect their allocations. For example, if California adjusts allocations based on recent energy consumption, parties may be motivated to increase energy consumption to obtain additional allowances. Linkage to behavior causes changes to that behavior. For this reason, if California adjusts allocations based on production, consumption, or sales volume, it must ensure it does not provide market participants with incentive to engage in perverse behavior. <sup>12</sup>

Q16. Should a two-track system be created, with different emission allowances for deliverers/ first sellers or retail providers with legacy coal-fueled power plants or legacy coal contracts? What are the factors and tradeoffs in making this decision? How would the two tracks be determined, e.g., using an historical system emissions factor as the cut-off? How should the allocations differ between the tracks, both initially and over time? What would be the market impact and cost consequences to consumers if a two-track method were used?

If California caps aggregate GHG emissions, then it can expect that the heaviest GHGemitters will bear the highest adjustment costs. The trade-offs of differing treatments are clear. Any effort to buffer artificially the costs of compliance for high GHG emitters will come at the expense of greater costs for low GHG emitters.

<sup>&</sup>lt;sup>12</sup> A principle that market participants often espoused in the context of transmission rights may provide a guidepost here: Transmission rights belong to the customer; the load-serving entity is just the custodian. If a customer changes suppliers, transmission rights migrate with the customer to the new supplier. By analogy, it is probably better to think of allocation adjustments based on forward-looking customer migrations rather than on recent historical generation or sales volumes of a particular supplier. As with almost all allocation design questions, auctions avoid having to address this issue.

- Q17. If emission allowances are allocated administratively to retail providers, should other adjustments be made to reflect a retail provider's unique circumstances? Comment on the following examples, and add others as appropriate:
  - a. Climate zone weighting to account for higher energy use by customers in inclement climates, and
  - b. Increased emission allowances if there is a greater-than-average proportion of economically disadvantaged customers in a retail provider's area.

No answer provided.

Q18. Should differing levels of regulatory mandates among retail providers (e.g., for renewable portfolio standards, energy efficiency investment, etc.) be taken into account in determining entity-specific emission allowance allocations going forward? For example, should emission allowance allocations be adjusted for retail providers with high historical investments in energy efficiency or renewables due to regulatory mandates? If those differential mandates persist in the future, should they continue to affect emission allowance allocations?

No answer provided.

Q19. How often should the allowance allocation process occur? How far in advance of the compliance period?

No answer provided.

Q20. What are the distributional consequences of your recommended emission allowance allocation approach? For example, how would your method affect customers of retail providers with widely differing average emission rates? Or differing rates of population growth?

No response provideď.

- 2. Emission Allowances with a Deliverer/First Seller Point of Regulation
- Q21. Would a deliverer/first seller point of regulation necessitate auctioning of emission allowances to the deliverers/first sellers?

It certainly is possible for California to develop an allocation scheme among deliverers.

However, doing so would convey relative competitive advantages to all allowance recipients and likely disadvantage those that had to pay for allowances in the secondary markets. Thus, trying to

create such an allocation system would prove administratively difficult and likely would lead to real inequities.

In fairness, MSCG would observe that the same general issues arise among LSEs in a load-based system, so the problem is not unique to a deliverer/first-seller approach. However, it may be more complicated to administer allocations for a deliverer/first-seller system. Auctioning, on the other hand, would eliminate these concerns because all entities that need allowances would have to secure them using the same methods – regularly scheduled auctions and the secondary market. This is true in either a load based or a deliverer/first-seller system.

Q22. Are there interstate commerce concerns if auction proceeds are obtained from all deliverers/first sellers and spent solely for the benefit of California ratepayers? If there are legal considerations, include a detailed analysis and appropriate legal citations.

No answer provided.

- Q23. If you believe 100% auctioning to deliverers/ first sellers is not required, explain how emission allowances would be allocated to deliverers/first sellers. In doing so, answer the following:
  - a. How would the amount of emission allowances given to deliverers/first sellers be determined during any particular compliance period?
  - b. How would importers that are marketers be treated, e.g., would they receive emission allowance allocations or be required to purchase all their needed emission allowances through auctions? If allocated, using what method?
  - c. How would electric service providers be treated?
  - d. How would new deliverers/first sellers obtain emission allowances?
  - e. Would zero-carbon generators receive emission allowance allocations?
  - f. What would be the impact on market performance, prices, and costs to customers of allocating emission allowances to deliverers/first sellers?

- g. What would be the likelihood of windfall profits if some or all emission allowances are allocated to deliverers/first sellers?
- h. How could such a system prevent windfall profits?

MSCG would not argue that 100% auctioning is required, however, such a system would be far superior to any partial or total allocation. The mere fact that the Commission raises the concerns enumerated above supports MSCG's belief that 100% auctioning is preferable to an approach in which some share of allowances is allocated free of charge. An auction avoids having to come up with a scheme to address these concerns.

Q24. With a deliverer/first seller point of regulation, should administrative allocations of emission allowances be made to retail providers for subsequent auctioning to deliverers/first sellers? If so, using what allocation method? Refer to your answers in Section 3.4.1., as appropriate.

California should auction all allowances directly to the market. If California decides that certain entities should have a stake in the value of allowances, then the best way to satisfy that interest is to assign such entities ARRs. MSCG recommends that the State assign ARRs to endusers (*i.e.*, those who are most likely to feel the greatest impact of any associated increase in electric prices). Billing credit methodologies for these types of distributions are common and, presumably, in wide use. Consequently, California should face relatively little incremental administrative expense to implement a methodology for assignment of ARRs to customers. Furthermore, such an approach largely preempts battles for ARRs that could parallel many of the problems outlined herein associated with determining who should be entitled to allowance allocations.

Q25. If you recommend allocation of emission allowances to retail providers followed by an auction to deliverers/first sellers, how would such an auction be administered? What kinds of issues would such a system raise? What would be the impact on market performance, prices, and costs to customers?

No answer provided.

#### E. Natural Gas Sector

Q26. Answer each of the questions in Section 3.4.1. except Q16, but for the natural gas sector and with reference to natural gas distribution companies (investor- or publicly-owned), interstate pipeline companies, or natural gas storage companies as appropriate. Explain if your answer differs among these types of natural gas entities. Explain any differences between your answers for the electricity sector and the natural gas sector.

MSCG does not see why there would be any differences regarding distribution of allowances in the natural gas or electricity sectors. California should auction allowances in both sectors so that parties required to surrender allowances have unencumbered access to them.

Q27. Are there any other factors unique to the natural gas sector that have not been captured in the questions above? If so, describe the issues and your recommendations.

No answer provided.

#### F. Overall Recommendation

Q28. Considering your responses above, summarize your primary recommendation for how the State should design a system whereby electricity and natural gas entities obtain emission allowances if a cap and trade system is adopted.

MSCG opposes the free allocation of emission allowances. To ensure that emissions trading works, it is essential that the firms ultimately responsible for surrendering allowances have easy market access to them. The best way for California to implement this is by adopting a system that auctions 100% of allowances. Auctions would ensure that allowances enter the market from the start, thus affording market participants the opportunity to discover the price that reflects the marginal cost of reducing emissions. Moreover, the State can set aside auction proceeds to compensate any entity that suffers a disproportionately negative impact by the GHG reduction program. Auctions also are preferable to allocations because they would avoid major administrative burdens of managing allowance distribution under allocations. This is true under either a load-

based or first-seller system, as well as for the electric and natural gas sectors. Finally, if California allocates allowances for free, it risks market illiquidity and an artificial upward price bias early on, due to lack of full participation, as was seen in the European Union during the first year of its Phase One program.

#### III. CONCLUSION

MSCG respectfully requests that the CPUC and CEC consider these comments in their recommendation to CARB on how to distribute GHG emissions allowances.

Respectfully submitted,

s/

Catherine M. Krupka Adam J. Katz McDermott Will & Emery LLP 600 Thirteenth Street, NW Washington, DC 20005

October 31, 2007

Attorneys for Morgan Stanley Capital Group Inc.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the foregoing Comments of Morgan

Stanley Capital Group Inc. on the Administrative Law Judge's Ruling Requesting Comments and

Noticing Workshop on Allowance Allocation Issues on all of parties of record in R. 06-04-009 by

electronic mail and by U.S. mail to those parties that have not provided an electronic address to the

Commission. I also have sent hard copies by overnight mail to the assigned Commissioner,

Michael R. Peevy, and the assigned Administrative Law Judges, Charlotte F. TerKeurst, Jonathan

Lakritz, and Meg Gottstein.

Moreover, pursuant to the October 15, 2007 Administrative Law Judge's Ruling

Requesting Comments and Noticing Workshop on Allowance Allocation Issues issued in R. 06-04-

009, I have sent one hard copy of these comments by overnight mail to the California Energy

Commission and also have sent electronic copies of these comments to docket@energy.state.ca.us

and to kgriffin@energy.state.ca.us.

Dated at Washington, DC, this 31st day of October, 2007.

\_\_\_/s/\_\_\_\_

Adam J. Katz

WDC99 1477217-4.043920.0236

- 17 -

#### Service List: R. 06-04-009

CINDY ADAMS COVANTA ENERGY CORPORATION 40 LANE ROAD FAIRFIELD, NJ 07004

STEVEN HUHMAN MORGAN STANLEY CAPITAL GROUP INC. 2000 WESTCHESTER AVENUE PURCHASE, NY 10577

KEITH R. MCCREA ATTORNEY AT LAW

MCDERMOTT WILL & EMERY LLP
SUTHERLAND, ASBILL & BRENNAN, LLP
1275 PENNSYLVANIA AVE. N W 1275 PENNSYLVANIA AVE., N.W. WASHINGTON, DC 20004-2415

CATHERINE M. KRUPKA MCDERMOTT WILL AND EMERY LLP 600 THIRTEEN STREEET, NW WASHINGTON, DC 20005

CATHY S. WOOLLUMS MIDAMERICAN ENERGY HOLDINGS COMPANY 106 EAST SECOND STREET DAVENPORT, IA 52801

THOMAS DILL PRESIDENT LODI GAS STORAGE, L.L.C. 1021 MAIN ST STE 1500 HOUSTON, TX 77002-6509

PAUL M. SEBY PAUL M. SEBY

MCKENNA LONG & ALDRIDGE LLP

MCKENNA LONG & ALDRIDGE LLP

1875 LAWRENCE STREET, SUITE 200

DENUED CO 80202 DENVER, CO 80202

STEPHEN G. KOERNER, ESQ. EL PASO CORPORATION WESTERN PIPELINES 2 NORTH NEVADA AVENUE COLORADO SPRINGS, CO 80903

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

ROBERT R. TAYLOR AGRICULTURAL IMPROVEMENT AND POWER DIST. WESTERN RESOURCE ADVOCATES 1600 NORTH PRIEST DRIVE, PAB221 TEMPE, AZ 85281

STEVEN S. SCHLEIMER DIRECTOR, COMPLIANCE & REGULATORY AFFAIRS BARCLAYS BANK, PLC 200 PARK AVENUE, FIFTH FLOOR NEW YORK, NY 10166

RICK C. NOGER PRAXAIR PLAINFIELD, INC. 2711 CENTERVILLE ROAD, SUITE 400 WILMINGTON, DE 19808

ADAM J. KATZ WASHINGTON, DC 20005

LISA M. DECKER CONSTELLATION ENERGY GROUP, INC. 111 MARKET PLACE, SUITE 500 BALTIMORE, MD 21202

KEVIN BOUDREAUX CALPINE POWER AMERICA-CA, LLC 717 TEXAS AVENUE, SUITE 1000 HOUSTON, TX 77002

E.J. WRIGHT OCCIDENTAL POWER SERVICES, INC. 5 GREENWAY PLAZA, SUITE 110 HOUSTON, TX 77046

TIMOTHY R. ODIL DENVER, CO 80202

JENINE SCHENK APS ENERGY SERVICES 400 E. VAN BUREN STREET, SUITE 750 PHOENIX, AZ 85004

KELLY BARR MANAGER, REGULATORY AFFAIRS & CONTRACTS SALT RIVER PROJECT PO BOX 52025, PAB 221 PHOENIX, AZ 85072-2025

STEVEN S. MICHEL 2025 SENDA DE ANDRES SANTA FE, NM 87501

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

SID NEWSOM TARIFF MANAGER SOUTHERN CALIFORNIA GAS COMPANY GT 14 D6 555 WEST 5TH STREET LOS ANGELES, CA 90051

CURTIS L. KEBLER J. ARON & COMPANY SUITE 2600 2121 AVENUE OF THE STARS LOS ANGELES, CA 90067

MICHAEL MAZUR CHIEF TECHNICAL OFFICER 3 PHASES RENEWABLES, LLC 2100 SEPULVEDA BLVD., SUITE 37 MANHATTAN BEACH, CA 90266

GREGORY KLATT ATTORNEY AT LAW DOUGLASS & LIDDELL 411 E. HUNTINGTON DRIVE, STE. 107-356 225 S. LAKE AVE., SUITE 1250 ARCADIA, CA 91006

DANIEL W. DOUGLASS ATTORNEY AT LAW DOUGLASS & LIDDELL 21700 OXNARD STREET, SUITE 1030 WOODLAND HILLS, CA 91367

CATHY A. KARLSTAD SOUTHERN CALIFORNIA EDISON COMPANY 2244 WALNUT GROVE AVE. ROSEMEAD, CA 91770

RONALD F. DEATON LOS ANGELES DEPARTMENT OF WATER & POWER 111 NORTH HOPE STREET, ROOM 1550 LOS ANGELES, CA 90012

DAVID L. HUARD ATTORNEY AT LAW MANATT, PHELPS & PHILLIPS, LLP 11355 WEST OLYMPIC BOULEVARD LOS ANGELES, CA 90064

DENNIS M.P. EHLING ATTORNEY AT LAW KIRKPATRICK & LOCKHART NICHOLSON GRAHAM 10100 SANTA MONICA BLVD., 7TH FLOOR LOS ANGELES, CA 90067

GREGORY KOISER

CONSTELLATION NEW ENERGY, INC.

350 SOUTH GRAND AVENUE, SUITE 3800

HANNA AND MORTON, LLP

444 SOUTH FLOWER STREET, NO. 1500 NORMAN A. PEDERSEN LOS ANGELES, CA 90071

> TIFFANY RAU POLICY AND COMMUNICATIONS MANAGER CARSON HYDROGEN POWER PROJECT LLC ONE WORLD TRADE CENTER, SUITE 1600 LONG BEACH, CA 90831-1600

> > RICHARD HELGESON SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY PASADENA, CA 91101

PAUL DELANEY AMERICAN UTILITY NETWORK (A.U.N.) 10705 DEER CANYON DRIVE ALTA LOMA, CA 91737

AKBAR JAZAYEIRI
DIRECTOR OF REVENUE & TARRIFFS
SOUTHERN CALIFORNIA EDISON COMPANY
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVENUE
CROWN AVE. ROOM 390
2244 WALNUT GROVE AVENUE
COMPANY
CROWN AVE. ROOM 390
2244 WALNUT GROVE AVENUE
CROWN AVENUE

LAURA I. GENAO ATTORNEY SOUTHERN CALIFORNIA EDISON 2244 WALNUT GROVE AVENUE ROSEMEAD, CA 91770

RONALD MOORE GOLDEN STATE WATER/BEAR VALLEY ELECTRIC PACIFIC ENERGY POLICY CENTER 630 EAST FOOTHILL BOULEVARD SAN DIMAS, CA 91773

AIMEE M. SMITH ATTORNEY AT LAW SEMPRA ENERGY 101 ASH STREET HQ13 SAN DIEGO, CA 92101

ALVIN PAK SEMPRA GLOBAL ENTERPRISES 101 ASH STREET SAN DIEGO, CA 92101

DANIEL A. KING SEMPRA ENERGY 101 ASH STREET, HQ 12 SAN DIEGO, CA 92101

THEODORE ROBERTS ATTORNEY AT LAW SEMPRA GLOBAL 101 ASH STREET, HQ 13D SAN DIEGO, CA 92101-3017

MARCIE MILNER SAN DIEGO, CA 92121

THOMAS DARTON PILOT POWER GROUP, INC. SUITE 520 8910 UNIVERSITY CENTER LANE SAN DIEGO, CA 92122

GLORIA BRITTON ANZA ELECTRIC COOPERATIVE, INC. 58470 HWY 371 PO BOX 391909 ANZA, CA 92539

TAMLYN M. HUNT ENERGY PROGRAM DIRECTOR 26 W. ANAPAMU ST., 2/F 234 SANTA BARBARA, CA 93101

JOHN P. HUGHES MANAGER, REGULATORY AFFAIRS SOUTHERN CALIFORNIA EDISON COMPANY
601 VAN NESS AVENUE, STE. 2040

VII. REGULATORI ATTAINS
SOUTHERN CALIFORNIA GAS COMPANY
601 VAN NESS AVENUE, SUITE 2060 SAN FRANCISCO, CA 94102

DON WOOD 4539 LEE AVENUE LA MESA, CA 91941

ALLEN K. TRIAL SAN DIEGO GAS & ELECTRIC COMPANY HQ-13 101 ASH STREET SAN DIEGO, CA 92101

DAN HECHT SEMPRA ENERGY 101 ASH STREET SAN DIEGO, CA 92101

SYMONE VONGDEUANE SEMPRA ENERGY SOLUTIONS 101 ASH STREET, HQ09 SAN DIEGO, CA 92101-3017

DONALD C. LIDDELL, P.C. DOUGLASS & LIDDELL 2928 2ND AVENUE SAN DIEGO, CA 92103

REID A. WINTHROP DIRECTOR - REGULATORY AFFAIRS

SHELL TRADING GAS & POWER COMPANY

4445 EASTGATE MALL, SUITE 100

REID A. WINTROP

PILOT POWER GROUP, INC.

8910 UNIVERSITY CENTER LANE, SUITE 520

SAN DIEGO, CA 92122

> STEVE RAHON DIRECTOR, TARIFF & REGULATORY ACCOUNTS SAN DIEGO GAS & ELECTRIC COMPANY 8330 CENTURY PARK COURT, CP32C SAN DIEGO, CA 92123-1548

LYNELLE LUND COMMERCE ENERGY, INC. 600 ANTON BLVD., SUITE 2000 COSTA MESA, CA 92626

JEANNE M. SOLE DEPUTY CITY ATTORNEY ENERGY PROGRAM DIRECTOR

COMMUNITY ENVIRONMENTAL COUNCIL

CITY AND COUNTY OF SAN FRANCISCO

1 DB CARLTON B GOODLETT PLACE. 1 DR. CARLTON B. GOODLETT PLACE, RM.

SAN FRANCISCO, CA 94102

LAD LORENZ V.P. REGULATORY AFFAIRS SAN FRANCISCO, CA 94102 MARCEL HAWIGER THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102

DIANA L. LEE CALIF PUBLIC UTILITIES COMMISSION LEGAL DIVISION ROOM 4300 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

AUDREY CHANG STAFF SCIENTIST

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER STREET, 20TH FLOOR

SAN FRANCISCO, CA 94104

ATTORNEY AT LAW

ALCANTAR & KAHL

120 MONTGOMERY STREET

SAN FRANCISCO, CA 94104

EVELYN KAHL ATTORNEY AT LAW

MICHAEL P. ALCANTAR ATTORNEY AT LAW SAN FRANCISCO, CA 94104

WILLIAM H. CHEN DIRECTOR, ENERGY POLICY WEST REGION
CONSTELLATION NEW ENERGY, INC.
DIRECTOR REGULATORY RELATIONS
PACIFIC GAS AND ELECTRIC COMPA SPEAR TOWER, 36TH FLOOR ONE MARKET STREET SAN FRANCISCO, CA 94105

EDWARD G POOLE ANDERSON DONOVAN & POOLE SAN FRANCISCO, CA 94108

BRIAN T. CRAGG ATTORNEY AT LAW GOODIN, MACBRIDE, SQUERI, RITCHIE & DAY GOODIN MACBRIDE SQUERI RITCHIE & DAY 505 SANSOME STREET, SUITE 900 SAN FRANCISCO, CA 94111

JEANNE B. ARMSTRONG ATTORNEY AT LAW GOODIN MACBRIDE SQUERI DAY & LAMPREY WINSTON & STRAWN LLP 505 SANSOME STREET, SUITE 900 SAN FRANCISCO, CA 94111

NINA SUETAKE ATTORNEY AT LAW THE UTILITY REFORM NETWORK 711 VAN NESS AVE., STE. 350 SAN FRANCISCO, CA 94102

F. JACKSON STODDARD CALIF PUBLIC UTILITIES COMMISSION EXECUTIVE DIVISION ROOM 5125 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

DONALD BROOKHYSER

KRISTIN GRENFELL PROJECT ATTORNEY, CALIF. ENERGY PROGRAM ALCANTAR & KAHL, LLP

120 MONTGOMERY STREET, SUITE 2200

SAN FRANCISCO, CA 94104

NATURAL RESOURCES DEFENSE COUNCIL

111 SUTTER STREET, 20TH FLOOR
SAN FRANCISCO, CA 94104

SEEMA SRINIVASAN ATTORNEY AT LAW ALCANTAR & KAHL, LLP
ALCANTAR & KAHL, LLP
120 MONTGOMERY STREET, SUITE 2200
SAN FRANCISCO, CA 94104
ALCANTAR & KAHL, LLP
120 MONTGOMERY STREET, SUITE 2200 SAN FRANCISCO, CA 94104

> BRIAN K. CHERRY PACIFIC GAS AND ELECTRIC COMPANY 77 BEALE STREET, B10C SAN FRANCISCO, CA 94106

ANN G. GRIMALDI ANDERSON DONOVAN & POOLE

601 CALIFORNIA STREET SUITE 1300

SAN FRANCISCO, CA 94108

MCKENNA LONG & ALDRIDGE LLP

101 CALIFORNIA STREET, 41ST FLOOR

> JAMES D. SQUERI ATTORNEY AT LAW 505 SANSOME STREET, STE 900 SAN FRANCISCO, CA 94111

KAREN BOWEN ATTORNEY AT LAW 101 CALIFORNIA STREET SAN FRANCISCO, CA 94111 LISA A. COTTLE ATTORNEY AT LAW WINSTON & STRAWN LLP 101 CALIFORNIA STREET, 39TH FLOOR SAN FRANCISCO, CA 94111

VIDHYA PRABHAKARAN

GOODIN, MACBRIDE, SQUERI, DAY, LAMPREY

505 SANSOME STREET, SUITE 900

SAN FRANCISCO, CA 94111

JOSEPH M. KARP

ATTORNEY AT LAW

WINSTON & STRAWN LLP

101 CALIFORNIA STREET

SARA STECK MYERS ATTORNEY AT LAW 122 28TH AVENUE SAN FRANCISCO, CA 94121

ANDREW L. HARRIS ANDREW L. HARKIS

PACIFIC GAS & ELECTRIC COMPANY

PO BOX 770000 MAIL CODE B9A

SAN FRANCISCO, CA 94177

SAN FRANCISCO, CA 94177

SAN FRANCISCO, CA 94513

JENNIFER CHAMBERLIN STRATEGIC ENERGY, LLC 2633 WELLINGTON CT. CLYDE, CA 94520

KERRY HATTEVIK MIRANT CORPORATION 696 WEST 10TH STREET 696 WEST 10TH STREET PITTSBURG, CA 94565

WILLIAM H. BOOTH ATTORNEY AT LAW LAW OFFICES OF WILLIAM H. BOOTH 1904 FRANKLIN STREI 1500 NEWELL AVENUE, 5TH FLOOR OAKLAND, CA 94612 WALNUT CREEK, CA 94596

JANILL RICHARDS DEPUTY ATTORNEY GENERAL CALIFORNIA ATTORNEY GENERAL'S OFFICE 2397 SHATTUCK AVENUE, STE 203
1515 CLAY STREET, 20TH FLOOR BERKELEY, CA 94704 OAKLAND, CA 94702

GREGG MORRIS DIRECTOR GREEN POWER INSTITUTE 2039 SHATTUCK AVENUE, STE 402 BERKELEY, CA 94710-2557 BERKELEY, CA 94704

SEAN P. BEATTY ATTORNEY AT LAW COOPER, WHITE & COOPER, LLP 201 CALIFORNIA ST., 17TH FLOOR SAN FRANCISCO, CA 94111

SAN FRANCISCO, CA 94111-5802

JEFFREY P. GRAY

DAVIS WRIGHT TREMAINE, LLP

505 MONTGOMERY STREET, SUITE 800

SAN FRANCISCO, CA 94111-6533

CHRISTOPHER J. WARNER

PACIFIC GAS AND ELECTRIC COMPANY
77 BEALE STREET, PO BOX 7442

SAN FRANCISCO, CA 94120-7442

LARS KVALE CENTER FOR RESOURCE SOLUTIONS PRESIDIO BUILDIING 97 PO BOX 39512 SAN FRANCISCO, CA 94129

ANDREA WELLER

BETH VAUGHAN
CALIFORNIA COGENERATION COUNCIL 4391 N. MARSH ELDER COURT CONCORD, CA 94521

> AVIS KOWALEWSKI CALPINE CORPORATION 3875 HOPYARD ROAD, SUITE 345 PLEASANTON, CA 94588

J. ANDREW HOERNER REDEFINING PROGRESS 1904 FRANKLIN STREET

CLIFF CHEN UNION OF CONCERNED SCIENTIST

R. THOMAS BEACH CROSSBORDER ENERGY 2560 NINTH STREET, SUITE 213A BARRY F. MCCARTHY ATTORNEY AT LAW MCCARTHY & BERLIN, LLP 100 PARK CENTER PLAZA, SUITE 501 SAN JOSE, CA 95113

MIKE LAMOND
ALPINE NATURAL GAS OPERATING CO. #1 LLC
PO BOX 550
VALLEY SPRINGS, CA 95252

BALDASSARO DI CAPO 151 BLUE RAVINE ROAD FOLSOM, CA 95630

MARY LYNCH

VP - REGULATORY AND LEGISLATIVE AFFAIRS

CONSTELLATION ENERGY COMMODITIES GROUP

2377 GOLD MEDAL WAY, SUITE 100

GOLD RIVER, CA 95670

ANDREW BROWN
ATTORNEY AT LAW
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H STREET
SACRAMENTO, CA 95811

GREGGORY L. WHEATLAND
ATTORNEY AT LAW
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H STREET
SACRAMENTO, CA 95814

JEFFERY D. HARRIS ATTORNEY AT LAW ELLISON, SCHNEIDER & HARRIS LLP 2015 H STREET SACRAMENTO, CA 95814

WILLIAM W. WESTERFIELD, 111
ATTORNEY AT LAW
ELLISON, SCHNEIDER & HARRIS L.L.P.
2015 H STREET
SACRAMENTO, CA 95814

RAYMOND J. CZAHAR, C.P.A. CHIEF FINANCIAL OFFICER WEST COAST GAS COMPANY 9203 BEATTY DRIVE SACRAMENTO, CA 95826

C. SUSIE BERLIN
ATTORNEY AT LAW
MC CARTHY & BERLIN, LLP
100 PARK CENTER PLAZA, SUITE 501
SAN JOSE, CA 95113

JOY A. WARREN
ATTORNEY AT LAW
MODESTO IRRIGATION DISTRICT
1231 11TH STREET
MODESTO, CA 95354

JOHN JENSEN
PRESIDENT
MOUNTAIN UTILITIES
PO BOX 205
KIRKWOOD, CA 95646

LEONARD DEVANNA
EXECUTIVE VICE PRESIDENT
CLEAN ENERGY SYSTEMS, INC.
11330 SUNCO DRIVE, SUITE A
RANCHO CORDOVA, CA 95742

BRUCE MCLAUGHLIN
BRAUN & BLAISING, P.C.
915 L STREET, SUITE 1270
SACRAMENTO, CA 95814

JANE E. LUCKHARDT
ATTORNEY AT LAW
DOWNEY BRAND LLP
555 CAPITOL MALL, 10TH FLOOR
SACRAMENTO, CA 95814

VIRGIL WELCH STAFF ATTORNEY ENVIRONMENTAL DEFENSE 1107 9TH STREET, SUITE 540 SACRAMENTO, CA 95814

DOWNEY BRAND
DOWNEY BRAND
555 CAPITOL MALL, 10TH FLOOR
SACRAMENTO, CA 95814-4686

STEVEN M. COHN
ASSISTANT GENERAL COUNSEL
SACRAMENTO MUNICIPAL UTILITY DISTRICT
PO BOX 15830
SACRAMENTO, CA 95852-1830

ANN L. TROWBRIDGE
ATTORNEY AT LAW
DAY CARTER & MURPHY, LLP
3620 AMERICAN RIVER DRIVE, SUITE 205
SACRAMENTO, CA 95864

JESSICA NELSON
PLUMAS-SIERRA RURAL ELECTRIC CO-OP
73233 STATE ROUTE 70, STE A
PORTOLA, CA 96122-7064

CYNTHIA SCHULTZ
REGULATORY FILING COORDINATOR
PACIFIC POWER AND LIGHT COMPANY
825 N.E. MULTNOMAH
PORTLAND, OR 97232

RYAN FLYNN
PACIFICORP
825 NE MULTNOMAH STREET, 18TH FLOOR
PORTLAND, OR 97232

JASON DUBCHAK
ASSOCIATE GENERAL COUNSEL
WILD GOOSE STORAGE LLC
C/O NISKA GAS STORAGE, SUITE 400
607 8TH AVENUE S.W.
CALGARY, AB T2P OA7
CANADA

### **Information Only**

BRIAN M. JONES
M. J. BRADLEY & ASSOCIATES, INC.
47 JUNCTION SQUARE DRIVE
CONCORD, MA 01742

KENNETH A. COLBURN SYMBILTIC STRATEGIES, LLC 26 WINTON ROAD MEREDITH, NH 03253

KATHRYN WIG PARALEGAL NRG ENERGY, INC. 211 CARNEGIE CENTER PRINCETON, NY 08540

GEORGE HOPLEY BARCLAYS CAPITAL 200 PARK AVENUE NEW YORK, NY 10166 DAN SILVERIA
SURPRISE VALLEY ELECTRIC CORPORATION
PO BOX 691
ALTURAS, CA 96101

DONALD BROOKHYSER
ALCANTAR & KAHL
1300 SW FIFTH AVE., SUITE 1750
PORTLAND, OR 97210

KYLE L. DAVIS
PACIFICORP
825 NE MULTNOMAH ST., SUITE 2000
PORTLAND, OR 97232

IAN CARTER
POLICY COORDINATOR-NORTH AMERICA
INTERNATIONAL EMISSIONS TRADING ASSN.
350 SPARKS STREET, STE. 809
OTTAWA, ON K1R 7S8
CANADA

MATTHEW MOST
EDISON MISSION MARKETING & TRADING,
160 FEDERAL STREET
BOSTON, MA 02110-1776

RICHARD COWART
REGULATORY ASSISTANCE PROJECT
50 STATE STREET, SUITE 3
MONTPELIER, VT 05602

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

ELIZABETH ZELLJADT 1725 I STREET, N.W. SUITE 300 WASHINGTON, DC 20006 DALLAS BURTRAW 1616 P STREET, NW WASHINGTON, DC 20036

KYLE D. BOUDREAUX FPL GROUP 700 UNIVERSE BLVD., JES/JB JUNO BEACH, FL 33408

GARY BARCH FELLON-MCCORD & ASSOCIATES, INC. SUITE 2000 9960 CORPORATE CAMPUS DRIVE LOUISVILLE, KY 40223

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

BRIAN POTTS FOLEY & LARDNER PO BOX 1497 150 EAST GILMAN STREET MADISON, WI 53701-1497

JAMES ROSS RCS, INC. 500 CHESTERFIELD CENTER, SUITE 320 1000 MAIN STREET CHESTERFIELD, MO 63017

GARY HINNERS RELIANT ENERGY, INC. PO BOX 148 HOUSTON, TX 77001-0148

JULIE L. MARTIN WEST ISO COORDINATOR NORTH AMERICA GAS AND POWER BP ENERGY COMPANY 501 WESTLAKE PARK BLVD. HOUSTON, TX 77079

ED CHIANG ELEMENT MARKETS, LLC ONE SUGAR CREEK CENTER BLVD., SUITE 250 1750 14TH STREET, SUITE 200 SUGAR LAND, TX 77478

NICHOLAS LENSSEN **ENERGY INSIGHTS** 1750 14TH STREET, SUITE 200 BOULDER, CO 80302

VERONIQUE BUGNION POINT CARBON 205 SEVERN RIVER RD SEVERNA PARK, MD 21146

ANDREW BRADFORD SENIOR MARKET RESEARCH ASSOCIATE FELLON-MCCORD & ASSOCIATES SUITE 2000 9960 CORPORATE CAMPUS DRIVE LOUISVILLE, KY 40223

RALPH E. DENNIS DIRECTOR, REGULATORY AFFAIRS FELLON-MCCORD & ASSOCIATES CONSTELLATION NEWENERGY-GAS DIVISION 9960 CORPORATE CAMPUS DRIVE, STE 2000 LOUISVILLE, KY 40223

BARRY RABE 1427 ROSS STREE! PLYMOUTH, MI 48170

> JAMES W. KEATING BP AMERICA, INC. MAIL CODE 603-1E 150 W. WARRENVILLE RD. NAPERVILLE, IL 60563

TRENT A. CARLSON RELIANT ENERGY HOUSTON, TX 77001

JEANNE ZAIONTZ BP ENERGY COMPANY BP ENERGY COMPANY 501 WESTLAKE PARK BLVD, RM. 4328 HOUSTON, TX 77079

FIJI GEC EL PASO CORPORAL EL PASO BUILDING PO BOX 2511 "OUSTON, TX 772 EL PASO CORPORATION HOUSTON, TX 77252

> NADAV ENBAR ENERGY INSIGHTS BOULDER, CO 80302

ELIZABETH BAKER SUMMIT BLUE CONSULTING 1722 14TH STREET, SUITE 230 BOULDER, CO 80304

WAYNE TOMLINSON
EL PASO CORPORATION
WESTERN PIPELINES
2 NORTH NEVADA AVENUE
COLORADO SPRINGS, CO 80903

SANDRA ELY
NEW MEXICO ENVIRONMENT DEPARTMENT
1190 ST FRANCIS DRIVE
SANTA FE, NM 87501

DOUGLAS BROOKS
NEVADA POWER COMPANY
SIERRA PACIFIC POWER COMPANY
6226 WEST SAHARA AVENUE
LAS VEGAS, NV 89151

RANDY SABLE SOUTHWEST GAS CORPORATION MAILSTOP: LVB-105 5241 SPRING MOUNTAIN ROAD LAS VEGAS, NV 89193

JJ PRUCNAL SOUTHWEST GAS CORPORATION PO BOX 98510 LAS VEGAS, NV 89193-8510

CYNTHIA MITCHELL ENERGY ECONOMICS, INC. 530 COLGATE COURT RENO, NV 89503

ELENA MELLO SIERRA PACIFIC POWER COMPANY 6100 NEIL ROAD RENO, NV 89520

DARRELL SOYARS
MANAGER-RESOURCE PERMITTING&STRATEGIC
SIERRA PACIFIC RESOURCES
6100 NEIL ROAD
RENO, NV 89520-0024

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

RANDY S. HOWARD LOS ANGELES DEPT. OF WATER AND POWER 111 NORTH HOPE STREET, ROOM 921 LOS ANGELES, CA 90012 KEVIN J. SIMONSEN ENERGY MANAGEMENT SERVICES 646 EAST THIRD AVENUE DURANGO, CO 81301

BRIAN MCQUOWN
RELIANT ENERGY
7251 AMIGO ST., SUITE 120
LAS VEGAS, NV 89119

ANITA HART
SENIOR SPECIALIST/STATE REGULATORY
SOUTHWEST GAS CORPORATION
5241 SPRING MOUNTAIN ROAD
LAS VEGAS, NV 89193

BILL SCHRAND
SOUTHWEST GAS CORPORATON
PO BOX 98510
LAS VEGAS, NV 89193-8510

SANDRA CAROLINA SOUTHWEST GAS CORPORATION PO BOX 98510 LAS VEGAS, NV 89193-8510

CHRISTOPHER A. HILEN
ASSISTANT GENERAL COUNSEL
SIERRA PACIFIC POWER COMPANY
6100 NEIL ROAD
RENO, NV 89511

TREVOR DILLARD SIERRA PACIFIC POWER COMPANY PO BOX 10100 6100 NEIL ROAD, MS S4A50 RENO, NV 89520

FRANK LUCHETTI
NEVADA DIV. OF ENVIRONMENTAL PROTECTION
901 S. STEWART ST., SUITE 4001
CARSON CITY, NV 89701

LORRAINE PASKETT
DIRECTOR, LEGISLATIVE AND REG.
LA DEPT. OF WATER & POWER
PO BOX 51111
111 N. HOWARD ST., ROOM 1536
LOS ANGELES, CA 90012

ROBERT L. PETTINATO
LOS ANGELES DEPARTMENT OF WATER & POWER
111 NORTH HOPE STREET, SUITE 1151
LOS ANGELES, CA 90012

HUGH YAO
SOUTHERN CALIFORNIA GAS COMPANY
555 W. 5TH ST, GT22G2
LOS ANGELES, CA 90013

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

PETER JAZAYERI
STROOCK & STROOCK & LAVAN LLP
2029 CENTURY PARK EAST, SUITE 1800
LOS ANGELES, CA 90067

DAVID NEMTZOW 1254 9TH STREET, NO. 6 SANTA MONICA, CA 90401

VITALY LEE
AES ALAMITOS, LLC
690 N. STUDEBAKER ROAD
LONG BEACH, CA 90803

STEVEN G. LINS
GENERAL COUNSEL
GLENDALE WATER AND POWER
613 EAST BROADWAY, SUITE 220
GLENDALE, CA 91206-4394

BRUNO JEIDER BURBANK WATER & POWER 164 WEST MAGNOLIA BLVD. BURBANK, CA 91502

ROGER PELOTE
WILLIAMS POWER COMPANY
12736 CALIFA STREET
VALLEY VILLAGE, CA 91607

CASE ADMINISTRATION
SOUTHERN CALIFORNIA EDISON COMPANY
2244 WALNUT GROVE AVE., RM. 370
ROSEMEAD, CA 91770

BARRY LOVELL 15708 POMERADO RD., SUITE 203 POWAY, CA 92064 RASHA PRINCE SOUTHERN CALIFORNIA GAS COMPANY 555 WEST 5TH STREET, GT14D6 LOS ANGELES, CA 90013

S. NANCY WHANG
ATTORNEY AT LAW
MANATT, PHELPS & PHILLIPS, LLP
11355 WEST OLYMPIC BLVD.
LOS ANGELES, CA 90064

DEREK MARKOLF
CALIFORNIA CLIMATE ACTION REGISTRY
515 S. FLOWER STREET, SUITE 1640
LOS ANGELES, CA 90071

HARVEY EDER
PUBLIC SOLAR POWER COALITION
1218 12TH ST., 25
SANTA MONICA, CA 90401

STEVE ENDO
PASADENA DEPARTMENT OF WATER & POWER
45 EAST GLENARM STREET
PASADENA, CA 91105

TOM HAMILTON
MANAGING PARTNER
ENERGY CONCIERGE SERVICES
321 MESA LILA RD
GLENDALE, CA 91208

RICHARD J. MORILLO ASSISTANT CITY ATTORNEY CITY OF BURBANK 215 E. OLIVE AVENUE BURBANK, CA 91502

AIMEE BARNES
MANAGER REGULATORY AFFAIRS
ECOSECURITIES
HARVARD SQUARE
206 W. BONITA AVENUE
CLAREMONT, CA 91711

TIM HEMIG NRG ENERGY, INC. 1819 ASTON AVENUE, SUITE 105 CARLSBAD, CA 92008

ALDYN HOEKSTRA
PACE GLOBAL ENERGY SERVICES
420 WEST BROADWAY, 4TH FLOOR
SAN DIEGO, CA 92101

YVONNE GROSS REGULATORY POLICY MANAGER SEMPRA ENERGY HO08C 101 ASH STREET SAN DIEGO, CA 92103

KIM KIENER 504 CATALINA BLVD. SAN DIEGO, CA 92106

JOSEPH R. KLOBERDANZ SAN DIEGO GAS & ELECTRIC PO BOX 1831 SAN DIEGO, CA 92112

JACK BURKE LEGISLATIVE AFFAIRS MANAGER CALIFORNIA CENTER FOR SUSTAINABLE ENERGY CALIFORNIA CENTER FOR SUSTAINABLE 8690 BALBOA AVE., SUITE 100 SAN DIEGO, CA 92123

SEPHRA A. NINOW POLICY ANALYST CALIFORNIA CENTER FOR SUSTAINABLE ENERGY LUCE, FORWARD, HAMILTON & SCRIPPS, LLP 8690 BALBOA AVENUE, SUITE 100 SAN DIEGO, CA 92123

ORLANDO B. FOOTE, III ATTORNEY AT LAW HORTON, KNOX, CARTER & FOOTE 895 BROADWAY, SUITE 101 EL CENTRO, CA 92243

THOMAS MCCABE EDISON MISSION ENERGY 18101 VON KARMAN AVE., SUITE 1700 IRVINE, CA 92612

GLORIA D. SMITH ADAMS, BROADWELL, JOSEPH & CARDOZO 601 GATEWAY BLVD., SUITE 1000 SOUTH SAN FRANCISCO, CA 94080

DIANE I. FELLMAN ATTORNEY AT LAW LAW OFFICES OF DIANE I. FELLMAN 234 VAN NESS AVENUE SAN FRANCISCO, CA 94102

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

SCOTT J. ANDERS RESEARCH/ADMINISTRATIVE DIRECTOR UNIVERSITY OF SAN DIEGO SCHOOL OF LAW 5998 ALCALA PARK SAN DIEGO, CA 92110

ANDREW MCALLISTER DIRECTOR OF OPERATIONS CALIFORNIA CENTER FOR SUSTAINABLE 8690 BALBOA AVE., SUITE 100 SAN DIEGO, CA 92123

JENNIFER PORTER POLICY ANALYST 8690 BALBOA AVENUE, SUITE 100 SAN DIEGO, CA 92123

JOHN W. LESLIE ATTORNEY AT LAW 11988 EL CAMINO REAL, SUITE 200 SAN DIEGO, CA 92130

ELSTON K. GRUBAUGH IMPERIAL IRRIGATION DISTRICT 333 EAST BARIONI BLVD. IMPERIAL, CA 92251

JAN PEPPER CLEAN POWER MARKETS, INC. PO BOX 3206 418 BENVENUE AVENUE LOS ALTOS, CA 94024

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

HAYLEY GOODSON ATTORNEY AT LAW THE UTILITY REFORM NETWORK 711 VAN NESS AVENUE, SUITE 350 SAN FRANCISCO, CA 94102

MICHEL FLORIO ATTORNEYS AT LAW 711 VAN NESS AVE., STE. 350 SAN FRANCISCO, CA 94102

MICHAEL A. HYAMS POWER ENTERPRISE-REGULATORY AFFAIRS
SAN FRANCISCO PUBLIC UTILITIES COMM
SAN FRANCISCO PUC
1155 MARKET ST., 4TH FLOOR
1155 MARKET STREET, 4TH FLOOR POWER ENTERPRISE-REGULATION: SAN FRANCISCO PUBLIC UTILITIES COMM SAN FRANCISCO, CA 94103

NORMAN J. FURUTA ATTORNEY AT LAW 1455 MARKET ST., SUITE 1744
SAN FRANCISCO FEDERAL EXECUTIVE AGENCIES SAN FRANCISCO, CA 94103-1399

ANNABELLE MALINS CONSUL-SCIENCE AND TECHNOLOGY BRITISH CONSULATE-GENERAL ONE SANSOME STREET, SUITE 850 SAN FRANCISCO, CA 94104

KAREN TERRANOVA

OLOF BYSTROM DIRECTOR, WESTERN ENERGY
CAMBRIDGE ENERGY RESEARCH ASSOCIATES
555 CALIFORNIA STREET, 3RD FLOOR
SAN FRANCISCO, CA 94104

ATTORNEY AT LAW
STOEL RIVES
111 SUTTER ST., SUITE 700
SAN FRANCISCO, CA 94104

SAN FRANCISCO, CA 94104

CARMEN E. BASKETTE CORPORATE DEVELOPMENT PRINCIPAL 594 HOWARD ST., SUITE 400 SAN FRANCISCO, CA 94105

JAMES W. TARNAGHAN DUANE MORRIS LLP SUITE 2000 ONE MARKET, SPEAR TOWER SAN FRANCISCO, CA 94105

DAN ADLER DIRECTOR, TECH AND POLICY DEVELOPMENT CALIFORNIA CLEAN ENERGY FUND 5 THIRD STREET, SUITE 1125 SAN FRANCISCO, CA 94103

THERESA BURKE SAN FRANCISO, CA 94103

AMBER MAHONE ENERGY & ENVIRONMENTAL ECONOMICS, INC. 101 MONTGOMERY STREET, SUITE 1600 SAN FRANCISCO, CA 94104

DEVRA WANG NATURAL RESOURCES DEFENSE COUNCIL 111 SUTTER STREET, 20TH FLOOR SAN FRANCISCO, CA 94104

NORA SHERIFF ALCANTAR & KAHL, LLP ATTORNEY AT LAW
120 MONTGOMERY STREET, STE 2200 ALCANTAR & KAHL, LLP
SAN FRANCISCO, CA 94104 120 MONTGOMERY STREET, SUITE 2200 SAN FRANCISCO, CA 94104

SETH HILTON

NATURAL RESOURCES DEFENSE COUNCIL THELEN REID BROWN RAYSMAN&STEINER LLP
111 SUTTER STREET, 20TH FLOOR SUITE 1800
SAN FRANCISCO CO CAROLO 101 SECOND STREET SAN FRANCISCO, CA 94105

> COLIN PETHERAM DIRECTOR-REGULATORY SBC CALIFORNIA 140 NEW MONTGOMERY ST., SUITE 1325 SAN FRANCISCO, CA 94105

KEVIN FOX WILSON SONSINI GOODRICH & ROSATI ONE MARKET STREET, SPEAR TOWER, 3300 SAN FRANCISCO, CA 94105

KHURSHID KHOJA ASSOCIATE THELEN REID BROWN RAYSMAN & STEINER 101 SECOND STREET, SUITE 1800 SAN FRANCISCO, CA 94105 SAN FRANCISCO, CA 94105

SHERIDAN J. PAUKER WILSON SONSINI GOODRICH & ROSATI MORRISON AND FOERSTER SPEAR TOWER, SUITE 3300 ONE MARKET ST SAN FRANCISCO, CA 94105

CALIFORNIA ENERGY MARKETS 517-B POTRERO AVENUE SAN FRANCISCO, CA 94110

JANINE L. SCANCARELLI ATTORNEY AT LAW

MARTIN A. MATTES NOSSAMAN, GUTHNER, KNOX & ELLIOTT, LLP

CENTER FOR NEIGHBORHOOD TECHNOLOGY

50 CALIFORNIA STREET, 34TH FLOOR

PO BOX 14322 SAN FRANCISCO, CA 94111

LISA WEINZIMER ASSOCIATE EDITOR PLATTS MCGRAW-HILL 695 NINTH AVENUE, NO. 2 SAN FRANCISCO, CA 94118

SHAUN ELLIS 2183 UNION STREET SAN FRANCISCO, CA 94123

ED LUCHA

JASMIN ANSAR PG&E MAIL CODE B24A PO BOX 770000 SAN FRANCISCO, CA 94177

RAYMOND HUNG PO BOX 770000 MAIL CODE B9A SAN FRANCISCO, CA 94177

PETER V. ALLEN THELEN REID BROWN RAYSMAN & STEINER

ROBERT J. REINHARD 425 MARKET STREET SAN FRANCISCO, CA 94105-2482

HOWARD V. GOLUB NIXON PEABODY LLP 2 EMBARCADERO CENTER, STE. 2700 SAN FRANCISCO, CA 94111

JOSEPH F. WIEDMAN ATTORNEY AT LAW

FOLGER, LEVIN & KAHN, LLP

275 BATTERY STREET, 23RD FLOOR
SAN FRANCISCO, CA 94111

ATTORNEI AT LAW

GOODIN MACBRIDE SQUERI DAY & LAMPREY

505 SANSOME STREET, SUITE 900

SAN FRANCISCO, CA 94111

> JEN MCGRAW SAN FRANCISCO, CA 94114

STEVEN MOSS SAN FRANCISCO COMMUNITY POWER COOP 2325 3RD STREET, SUITE 344 SAN FRANCISCO, CA 94120

ARNO HARRIS RECURRENT ENERGY, INC. 220 HALLECK ST., SUITE 220 SAN FRANCISCSO, CA 94129

GRACE LIVINGSTON-NUNLEY CASE COURDINATOR

PACIFIC GAS AND ELECTRIC COMPANY
PO BOX 770000, MAIL CODE B9A
SAN FRANCISCO, CA 94177

PO BOX 770000 MAIL CODE B9A
SAN FRANCISCO, CA 94177

PO BOX 770000 MAIL CODE B9A
SAN FRANCISCO CO COMPANY

> JONATHAN FORRESTER PG&E MAIL CODE N13C PO BOX 770000 SAN FRANCISCO, CA 94177

SEBASTIEN CSAPO PROJECT MANAGER PACIFIC GAS AND ELECTRIC COMPANY MAIL CODE B9A PO BOX 770000 SAN FRANCISCO, CA 94177

SOUMYA SASTRY PACIFIC GAS AND ELECTRIC COMPANY MAIL CODE B9A PO BOX 770000 SAN FRANCISCO, CA 94177

VALERIE J. WINN KARLA DAILEY
PACIFIC GAS AND ELECTRIC COMPANY CITY OF PALO ALTO
PO BOX 770000 POR PO BOX 770000, B9A SAN FRANCISCO, CA 94177-0001

FARROKH ALBUYEH VICE PRESIDENT OPEN ACCESS TECHNOLOGY INTERNATIONAL INC ADVANCED ENERGY STRATEGIES, INC. SUITE 910 1875 SOUTH GRANT STREET SAN MATEO, CA. 94402

JEFFREY L. HAHN COVANTA ENERGY CORPORATION 876 MT. VIEW DRIVE LAFAYETTE, CA 94549

JOSEPH M. PAUL SENIOR CORPORATE COUNSEL DYNEGY, INC. 4140 DUBLIN BLVD., STE. 100 PO BOX 782
DUBLIN CA 94568 DUBLIN, CA 94568

GREG BLUE
ENXCO DEVELOPMENT CORP
5000 EXECUTIVE PARKWAY, STE.140
CALIFORNIA REPORTS
39 CASTLE HILL COURT
VALLEJO, CA 94591

MONICA A. SCHWEBS, ESQ. BINGHAM MCCUTCHEN LLP PO BOX V 1333 N. CALIFORNIA BLVD., SUITE 210 101 YGNACIO VALLEY ROAD, SUITE 450 WALNUT CREEK, CA 94596

JOSEPH HENRI 31 MIRAMONTE ROAD WALNUT CREEK, CA 94597

WILLIAM F. DIETRICH ATTORNEY AT LAW DIETRICH LAW 2977 YGNACIO VALLEY ROAD, 613 WALNUT CREEK, CA 94598-3535

GERALD L. LAHR ABAG POWER 101 EIGHTH STREET OAKLAND, CA 94607 STEPHANIE LA SHAWN
PACIFIC GAS AND ELECTRIC COMPANY PO BOX 770000, MAIL CODE B9A SAN FRANCISCO, CA 94177

> UTILITIES DEPARTMENT BOX 10250 PALO ALTO, CA 94303

DEAN R. TIBBS PRESIDENT 1390 WILLOW PASS ROAD, SUITE 610 CONCORD, CA 94520

ANDREW J. VAN HORN VAN HORN CONSULTING 12 LIND COURT ORINDA, CA 94563

SUE KATELEY
EXECUTIVE DIRECTOR CALIFORNIA SOLAR ENERGY INDUSTRIES ASSN RIO VISTA, CA 94571

PETER W. HANSCHEN ATTORNEY AT LAW MORRISON & FOERSTER, LLP WALNUT CREEK, CA 94596

PATRICIA THOMPSON SUMMIT BLUE CONSULTING 2920 CAMINO DIABLO, SUITE 210 WALNUT CREEK, CA 94597

BETTY SETO POLICY ANALYST KEMA, INC. 492 NINTH STREET, SUITE 220 OAKLAND, CA 94607

JODY S. LONDON JODY LONDON CONSULTING PO BOX 3629 OAKLAND, CA 94609

STEVEN SCHILLER SCHILLER CONSULTING, INC. 111 HILLSIDE AVENUE PIEDMONT, CA 94611

REED V. SCHMIDT
VICE PRESIDENT
BARTLE WELLS ASSOCIATES
1889 ALCATRAZ AVENUE
BERKELEY, CA 94703

CLYDE MURLEY 1031 ORDWAY STREET ALBANY, CA 94706

CARLA PETERMAN UCEI 2547 CHANNING WAY BERKELEY, CA 94720

RYAN WISER
BERKELEY LAB
MS-90-4000
ONE CYCLOTRON ROAD
BERKELEY, CA 94720

PHILLIP J. MULLER SCD ENERGY SOLUTIONS 436 NOVA ALBION WAY SAN RAFAEL, CA 94903

CARL PECHMAN
POWER ECONOMICS
901 CENTER STREET
SANTA CRUZ, CA 95060

RICHARD SMITH
MODESTO IRRIGATION DISTRICT
1231 11TH STREET
MODESTO, CA 95352-4060

ROGER VAN HOY MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354

BARBARA R. BARKOVICH BARKOVICH & YAP, INC. 44810 ROSEWOOD TERRACE MENDOCINO, CA 95460 MRW & ASSOCIATES, INC. 1814 FRANKLIN STREET, SUITE 720 OAKLAND, CA 94612

ADAM BRIONES
THE GREENLINING INSTITUTE
1918 UNIVERSITY AVENUE, 2ND FLOOR
BERKELEY, CA 94704

BRENDA LEMAY
DIRECTOR OF PROJECT DEVELOPMENT
HORIZON WIND ENERGY
1600 SHATTUCK, SUITE 222
BERKELEY, CA 94709

EDWARD VINE
LAWRENCE BERKELEY NATIONAL LABORATORY
BUILDING 90R4000
BERKELEY, CA 94720

CHRIS MARNAY
BERKELEY LAB
1 CYCLOTRON RD MS 90R4000
BERKELEY, CA 94720-8136

RITA NORTON RITA NORTON AND ASSOCIATES, LLC 18700 BLYTHSWOOD DRIVE, LOS GATOS, CA 95030

MAHLON ALDRIDGE ECOLOGY ACTION PO BOX 1188 SANTA CRUZ, CA 95060

MODESTO IRRIGATION DISTRICT 1231 11TH STREET MODESTO, CA 95354

WES MONIER STRATEGIC ISSUES AND PLANNING MANAGER TURLOCK IRRIGATION DISTRICT 333 EAST CANAL DRIVE, PO BOX 949 TURLOCK, CA 95381-0949

JOHN R. REDDING ARCTURUS ENERGY CONSULTING 44810 ROSEWOOD TERRACE MENDOCINO, CA 95460 CLARK BERNIER RLW ANALYTICS 1055 BROADWAY, SUITE G SONOMA, CA 95476

CAROLYN M. KEHREIN ENERGY MANAGEMENT SERVICES 1505 DUNLAP COURT DIXON, CA 95620-4208

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

ROBIN SMUTNY-JONES CALIFORNIA ISO 151 BLUE RAVINE ROAD FOLSOM, CA 95630

DAVID BRANCHCOMB BRANCHCOMB ASSOCIATES, LLC 9360 OAKTREE LANE ORANGEVILLE, CA 95662

KIRBY DUSEL NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670

LAURIE PARK

SCOTT TOMASHEFSKY NORTHERN CALIFORNIA POWER AGENCY 180 CIRBY WAY ROSEVILLE, CA 95678-6420

AUDRA HARTMANN DYNEGY INC. 980 NINTH STREET, SUITE 1420 SACRAMENTO, CA 95814

CURT BARRY 717 K STREET, SUITE 503 SACRAMENTO, CA 95814

RICHARD MCCANN, PH.D M. CUBED 2655 PORTAGE BAY, SUITE 3 DAVIS, CA 95616

CALIFORNIA ISO LEGAL AND REGULATORY DEPARTMENT 151 BLUE RAVINE ROAD FOLSOM, CA 95630

KAREN EDSON 151 BLUE RAVINE ROAD FOLSOM, CA 95630

SAEED FARROKHPAY FEDERAL ENERGY REGULATORY COMMISSION 110 BLUE RAVINE RD., SUITE 107 FOLSOM, CA 95630

KENNY SWAIN NAVIGANT CONSULTING 3100 ZINFANDEL DALL, RANCHO CORDOVA, CA 95670 3100 ZINFANDEL DRIVE, SUITE 600

GORDON PICKERING PRINCIPAL NAVIGANT CONSULTING, INC. 3100 ZINFANDEL DRIVE, SUITE 600 RANCHO CORDOVA, CA 95670-6078

DAVID REYNOLDS NAVIGANT CONSULTING, INC.

MEMBER SERVICES MANAGER

3100 ZINFANDEL DRIVE, SUITE 600

RANCHO CORDOVA, CA 95670-6078

MEMBER SERVICES MANAGER

NORTHERN CALIFORNIA POWER AGENCY
180 CIRBY WAY ROSEVILLE, CA 95678-6420

> ELLEN WOLFE RESERO CONSULTING 9289 SHADOW BROOK PL. GRANITE BAY, CA 95746

BOB LUCAS LUCAS ADVOCATES 1121 L STREET, SUITE 407 SACRAMENTO, CA 95814

DAN SKOPEC CLIMATE & ENERGY CONSULTING 1201 K STREET SUITE 970 SACRAMENTO, CA 95814

DANIELLE MATTHEWS SEPERAS
CALPINE CORPORATION
1127 11TH STREET, SUITE 242
SACRAMENTO, CA 95814

DOUGLAS K. KERNER
ATTORNEY AT LAW
ELLISON, SCHNEIDER & HARRIS, LLP
2015 H STREET
SACRAMENTO, CA 95814

KASSANDRA GOUGH
CALPINE CORPORATION
1127 11TH STREET, SUITE 242
SACRAMENTO, CA 95814

KEVIN WOODRUFF WOODRUFF EXPERT SERVICES 1100 K STREET, SUITE 204 SACRAMENTO, CA 95814

PANAMA BARTHOLOMY ADVISOR TO CHAIR PFANNENSTIEL CALIFORNIA ENERGY COMMISSION 1516 9TH STREET SACRAMENTO, CA 95814

RACHEL MCMAHON
CEERT
1100 11TH STREET, SUITE 311
SACRAMENTO, CA 95814

STEVEN KELLY
INDEPENDENT ENERGY PRODUCERS ASSN
1215 K STREET, SUITE 900
SACRAMENTO, CA 95814-3947

LAURIE TEN HOPE
ADVISOR TO COMMISSIONER BYRON
CALIFORNIA ENERGY COMMISSION
1516 9TH STREET, MS-32
SACRAMENTO, CA 95814-5512

LYNN HAUG ELLISON, SCHNEIDER & HARRIS, LLP 2015 H STREET SACRAMENTO, CA 95816

BUD BEEBE
SACRAMENTO MUNICIPAL UTIL DIST
MS B257
6201 S STREET
SACRAMENTO, CA 95817-1899

DAVID L. MODISETTE
EXECUTIVE DIRECTOR
CALIFORNIA ELECTRIC TRANSP. COALITION
1015 K STREET, SUITE 200
SACRAMENTO, CA 95814

JUSTIN C. WYNNE
BRAU & BLAISING, P.C.
915 L STREET, SUITE 1270
SACRAMENTO, CA 95814

KELLIE SMITH
SENATE ENERGY/UTILITIES & COMMUNICATION
STATE CAPITOL, ROOM 4038
SACRAMENTO, CA 95814

MICHAEL WAUGH AIR RESOURCES BOARD 1001 10TH STREET SACRAMENTO, CA 95814

PATRICK STONER
PROGRAM DIRECTOR
LOCAL GOVERNMENT COMMISSION
1303 J STREET, SUITE 250
SACRAMENTO, CA 95814

WEBSTER TASAT AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 95814

EDWARD J. TIEDEMANN
ATTORNEY AT LAW
KRONICK, MOSKOVITZ, TIEDEMANN & GIRARD
400 CAPITOL MALL, 27TH FLOOR
SACRAMENTO, CA 95814-4416

JOSHUA BUSHINSKY
WESTERN POLICY COORDINATOR
PEW CENTER ON GLOBAL CLIMATE CHANGE
2101 WILSON BLVD., SUITE 550
ARLINGTON, VA 95816

OBADIAH BARTHOLOMY
MECHANICAL ENGINEER
SACRAMENTO MUNICIPAL UTILITY DISTRICT
M.S. B257
6201 S. STREET
SACRAMENTO, CA 95817

BALWANT S. PUREWAL
DEPARTMENT OF WATER RESOURCES
3310 EL CAMINO AVE., LL-90
SACRAMENTO, CA 95821

DOUGLAS MACMULLLEN
CHIEF, POWER PLANNING SECTION
CA DEPARTMENT OF WATER RESOURCES
3310 EL CAMINO AVE., ROOM 356
SACRAMENTO, CA 95821

KAREN LINDH LINDH & ASSOCIATES 7909 WALERGA ROAD, NO. 112, PMB 119 ANTELOPE, CA 95843

DENISE HILL DIRECTOR 4004 KRUSE WAY PLACE, SUITE 150 LAKE OSWEGO, OR 97035

ELIZABETH WESTBY
ALCANTAR & KAHL, LLP
1300 SW FIFTH AVENUE, SUITE 1750
PORTLAND, OR 97201

ALAN COMNES
WEST COAST POWER
3934 SE ASH STREET
PORTLAND, OR 97214

CATHIE ALLEN
CA STATE MGR.
PACIFICORP
825 NE MULTNOMAH STREET, SUITE 2000
PORTLAND, OR 97232

SAM SADLER
OREGON DEPARTMENT OF ENERGY
625 NE MARION STREET
SALEM, OR 97301-3737

CLARE BREIDENICH 224 1/2 24TH AVENUE EAST SEATTLE, WA 98112

JESUS ARREDONDO NRG ENERGY INC. 4600 CARLSBAD BLVD. CARLSBAD, CA 99208

KAREN MCDONALD POWEREX CORPORATION 1400, 666 BURRAND STREET VANCOUVER, BC V6C 2X8 CANADA KAREN NORENE MILLS
ATTORNEY AT LAW
CALIFORNIA FARM BUREAU FEDERATION
2300 RIVER PLAZA DRIVE
SACRAMENTO, CA 95833

ELIZABETH W. HADLEY CITY OF REDDING 777 CYPRESS AVENUE REDDING, CA 96001

ANNIE STANGE ALCANTAR & KAHL 1300 SW FIFTH AVE., SUITE 1750 PORTLAND, OR 97201

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

KYLE SILON ECOSECURITIES CONSULTING LIMITED 529 SE GRAND AVENUE PORTLAND, OR 97214

PHIL CARVER OREGON DEPARTMENT OF ENERGY 625 MARION ST., NE SALEM, OR 97301-3737

LISA SCHWARTZ SENIOR ANALYST ORGEON PUBLIC UTILITY COMMISSION PO BOX 2148 SALEM, OR 97308-2148

DONALD SCHOENBECK RCS, INC. 900 WASHINGTON STREET, SUITE 780 VANCOUVER, WA 98660

CHARLIE BLAIR
DELTA ENERGY & ENVIRONMENT
15 GREAT STUART STREET
EDINBURGH, UK EH2 7TP
UNITED KINGDOM

#### State Service

CLARENCE BINNINGER DEPUTY ATTORNEY GENERAL DEPARTMENT OF JUSTICE 455 GOLDEN GATE AVENUE, SUITE 11000 SAN FRANICSCO, CA 94102

ANDREW CAMPBELL CALIF PUBLIC UTILITIES COMMISSION EXECUTIVE DIVISION ROOM 5203 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

BETH MOORE CALIF PUBLIC UTILITIES COMMISSION ELECTRICITY RESOURCES & PRICING BRANCH ROOM 4103 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

CHARLOTTE TERKEURST CALIF PUBLIC UTILITIES COMMISSION DIVISION OF ADMINISTRATIVE LAW JUDGES ROOM 5117 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

DONALD R. SMITH CALIF PUBLIC UTILITIES COMMISSION ELECTRICITY RESOURCES & PRICING BRANCH LEGAL DIVISION ROOM 4209 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

EUGENE CADENASSO CALIF PUBLIC UTILITIES COMMISSION RATEMAKING BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

HENRY STERN CALIF PUBLIC UTILITIES COMMISSION DIVISION OF ADMINISTRATIVE LAW JUDGES ROOM 2106 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JACQUELINE GREIG CALIF PUBLIC UTILITIES COMMISSION ENERGY COST OF SERVICE & NATURAL GAS BRA DIVISION OF STRATEGIC PLANNING ROOM 4102 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

DAVID ZONANA DEPUTY ATTORNEY GENERAL CALIFORNIA ATTORNEY GENERAL'S OFFICE 455 GOLDEN GATE AVENUE, SUITE 11000 SAN FRANCISCO, CA 94102

ANNE GILLETTE CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

CATHLEEN A. FOGEL CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

CHRISTINE S. TAM CALIF PUBLIC UTILITIES COMMISSION ELECTRICITY RESOURCES & PRICING BRANCH ROOM 4209 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

ED MOLDAVSKY CALIF PUBLIC UTILITIES COMMISSION ROOM 5037 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

HARVEY Y. MORRIS CALIF PUBLIC UTILITIES COMMISSION LEGAL DIVISION ROOM 5036 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JACLYN MARKS CALIF PUBLIC UTILITIES COMMISSION EXECUTIVE DIVISION ROOM 5306 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JAMIE FORDYCE CALIF PUBLIC UTILITIES COMMISSION AREA 5-B 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JASON R. SALMI KLOTZ CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JOEL T. PERLSTEIN CALIF PUBLIC UTILITIES COMMISSION LEGAL DIVISION ROOM 5133 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JUDITH IKLE CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH ROOM 4012 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

KRISTIN RALFF DOUGLAS CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING ROOM 5119 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

LANA TRAN
CALIF PUBLIC UTILITIES COMMISSION
MATTHEW DEAL
CALIF PUBLIC UTILITIES COMMISSION ELECTRIC GENERATION PERFORMANCE BRANCH EXECUTIVE DIVISION AREA 2-D 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

NANCY RYAN CALIF PUBLIC UTILITIES COMMISSION EXECUTIVE DIVISION **ROOM 5217** 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

PAUL S. PHILLIPS CALIF PUBLIC UTILITIES COMMISSION CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY RESOURCES & PRICING BRANCH ENERGY COST OF SERVICE & NATURAL GAS ROOM 4101 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

RAHMON MOMOH CALIF PUBLIC UTILITIES COMMISSION ELECTRICITY RESOURCES & PRICING BRANCH **ROOM 4205** 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JEORGE S. TAGNIPES CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JONATHAN LAKRITZ CALIF PUBLIC UTILITIES COMMISSION DIVISION OF ADMINISTRATIVE LAW JUDGES ROOM 5020 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

JULIE A. FITCH CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING ROOM 5119 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

LAINIE MOTAMEDI CALIF PUBLIC UTILITIES COMMISSION DIVISION OF STRATEGIC PLANNING ROOM 5119 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

ROOM 5215 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

PAMELA WELLNER CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

PEARLIE SABINO ROOM 4209 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

RICHARD A. MYERS CALIF PUBLIC UTILITIES COMMISSION RATEMAKING BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

SARA M. KAMINS CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

SEAN A. SIMON CALIF PUBLIC UTILITIES COMMISSION ENERGY RESOURCES BRANCH 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

THERESA CHO CALIF PUBLIC UTILITIES COMMISSION EXECUTIVE DIVISION ROOM 5207 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

KEN ALEX PO BOX 944255 1300 I STREET, SUITE 125 SACRAMENTO, CA 94244-2550

JUDITH B. SANDERS ATTORNEY AT LAW CALIFORNIA INDEPENDENT SYSTEM OPERATOR 151 BLUE RAVINE ROAD FOLSOM, CA 95630

MARY MCDONALD DIRECTOR OF STATE AFFAIRS CALIFORNIA INDEPENDENT SYSTEM OPERATOR 151 BLUE RAVINE ROAD 151 BLUE RAVINE ROAD FOLSOM, CA 95630

MICHAEL SCHEIBLE DEPUTY EXECUTIVE OFFICER CALIFORNIA AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 95677

JEFFREY DOLL CALIFORNIA AIR RESOURCES BOARD PO BOX 2815 1001 I STREET SACRAMENTO, CA 95812

B. B. BLEVINS EXECUTIVE DIRECTOR CALIFORNIA ENERGY COMMISSION 1516 9TH STREET, MS-39 SACRAMENTO, CA 95814

SCOTT MURTISHAW CALIF PUBLIC UTILITIES COMMISSION ENERGY DIVISION AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

STEVE ROSCOW CALIF PUBLIC UTILITIES COMMISSION RATEMAKING BRANCH AREA 4-A 505 VAN NESS AVENUE SAN FRANCISCO, CA 94102-3214

BILL LOCKYER STATE ATTORNEY GENERAL STATE OF CALIFORNIA, DEPT OF JUSTICE PO BOX 944255 SACRAMENTO, CA 94244-2550

BALDASSARO DICAPO CALIFORNIA ISO LEGAL AND REGULATORY DEPARTMENT 151 BLUE RAVINE ROAD FOLSOM, CA 95630

JULIE GILL EXTERNAL AFFAIRS MANAGER CALIFORNIA INDEPENDENT SYSTEM OPERATOR 151 BLUE RAVINE ROAD FOLSOM, CA 95630

PHILIP D. PETTINGILL CALIFORNIA INDEPENDENT SYSTEM OPERATOR FOLSOM, CA 95630

EVAN POWERS CALIFORNIA AIR RESOURCES BOARD 1001 I ST, PO BOX 2815 SACRAMENTO, CA 95812

PAM BURMICH AIR RESOURCES BOAD 1001 I STREET, BOX 2815 SACRAMENTO, CA 95812

DARYL METZ CALIFORNIA ENERGY COMMISSION 1516 9TH ST., MS-20 SACRAMENTO, CA 95814

DEBORAH SLON
DEPUTY ATTORNEY GENERAL, ENVIRONMENT
OFFICE OF THE ATTORNEY GENERAL
1300 I STREET, 15TH FLOOR
SACRAMENTO, CA 95814

KAREN GRIFFIN
EXECUTIVE OFFICE
CALIFORNIA ENERGY COMMISSION
1516 9TH STREET, MS 39
SACRAMENTO, CA 95814

MARC PRYOR
CALIFORNIA ENERGY COMMISSION
1516 9TH ST., MS-20
SACRAMENTO, CA 95814

PIERRE H. DUVAIR
CALIFORNIA ENERGY COMMISSION
1516 NINTH STREET, MS-41
SACRAMENTO, CA 95814

CAROL J. HURLOCK
CALIFORNIA DEPT. OF WATER RESOURCES
JOINT OPERATIONS CENTER
RESOURCES
3310 EL CAMINO AVE. RM 300
SACRAMENTO, CA 95821

DON SCHULTZ
CALIF PUBLIC UTILITIES COMMISSION
ELECTRICITY RESOURCES & PRICING BRANCH
770 L STREET, SUITE 1050
SACRAMENTO, CA 95814

LISA DECARLO STAFF COUNSEL CALIFORNIA ENERGY COMMISSION 1516 9TH STREET MS-14 SACRAMENTO, CA 95814

MICHELLE GARCIA AIR RESOURCES BOARD 1001 I STREET SACRAMENTO, CA 95814

WADE MCCARTNEY
CALIF PUBLIC UTILITIES COMMISSION
DIVISION OF STRATEGIC PLANNING
770 L STREET, SUITE 1050
SACRAMENTO, CA 95814

HOLLY B. CRONIN STATE WATER PROJECT OPERATIONS DIV CALIFORNIA DEPARTMENT OF WATER

3310 EL CAMINO AVE., LL-90 SACRAMENTO, CA 95821