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

**A1008011**

Application of Pacific Gas and Electric  
Company to Recover Pumped Storage Study  
Costs (U 39 E)

**Application No. 10-08-**

**APPLICATION  
OF  
PACIFIC GAS AND ELECTRIC COMPANY (U 39E)**

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**APPLICATION  
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**I. INTRODUCTION.**

Pacific Gas and Electric Company (“PG&E”) hereby submits an Application for authorization to recover certain incremental feasibility, licensing and design study costs associated with a new pumped storage hydroelectric (“pumped hydro” or “pumped storage”) project located within the Mokelumne River watershed (“Mokelumne Pumped Storage Project” or “MPSP”) in Amador County, California. If ultimately constructed, the MPSP is expected to provide up to 1,200 megawatts (“MW”)<sup>1</sup> of energy storage capability by 2020, including storage capability to integrate intermittent renewable resources into the grid, thereby helping effectuate California’s goal of having load serving entities procure thirty-three percent (33%) of retail sales from eligible renewable energy resources by 2020. By this Application, PG&E requests authority to recover study costs for the MPSP, up to \$31.900 million. In addition, PG&E seeks authority to recover up to an additional \$1.575 million for study costs associated with other

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<sup>1</sup> Throughout this Application, PG&E refers to the size of the MPSP as up to 1,200 MW. The actual size of the MPSP would be determined over the next five years through the feasibility, licensing and design efforts discussed herein. One of the benefits of the MPSP is that it can be sized depending on the determined need (i.e., at 400 MW, 800 MW or 1,200 MW).

potential pumped storage projects, including one on the Kings River in Fresno County, California.

Specifically, PG&E requests authorization from the California Public Utilities Commission (“Commission”) to recover \$31.900 million in incremental costs associated with the MPSP, as follows: **(1)** the costs of evaluating the feasibility of developing the MPSP; **(2)** if found feasible, the costs associated with completing the Federal Energy Regulatory Commission (“FERC”) hydropower licensing process for the MPSP; and **(3)** if necessary, the costs of preparing a sufficiently detailed design to finalize an application to the Commission seeking cost recovery authority for construction of the MPSP. Costs of construction are not within the scope of this Application. In addition, PG&E requests authorization from the Commission to recover \$1.575 million in incremental costs for continued investigation, screening, and preliminary evaluation of additional pumped storage opportunities to determine site feasibility.

Because the opportunity to pursue the MPSP studies contemplated in this Application was not sufficiently developed at the time PG&E filed its 2011 General Rate Case (“GRC”) Notice of Intent in 2009, PG&E did not include costs for the MPSP in its GRC forecast. PG&E initially included in its 2011 GRC filing a request for the \$1.575 million associated with pumped storage development activities unrelated to the MPSP licensing effort. However, by stipulation of counsel, PG&E withdrew this request from the GRC filing and advised that it would request the funding through the instant Application.<sup>2</sup>

PG&E believes this Application is complete, and that it fully supports PG&E’s request for cost recovery. PG&E respectfully requests that the Commission act on this Application as soon as practical.

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<sup>2</sup> A.09-12-020, Evidentiary Hearing Transcript on July 15, 2010, p. 3701.

## II. DISCUSSION.

### A. Background.

The need to develop additional energy storage capability in California is becoming more and more apparent due to the increasing requirements for generation of energy from renewable resources. Under California's Renewables Portfolio Standard ("RPS") legislation, load serving entities such as PG&E are required to procure twenty percent (20%) of the energy they use to meet their retail electric sales from eligible renewable energy resources by December 31, 2010 (or by December 31, 2013 under the rules for flexible compliance).<sup>3</sup> In 2008, the Governor proposed that the requirement be increased to thirty-three percent (33%) by 2020,<sup>4</sup> and in 2009, the Governor issued an Executive Order directing the California Air Resources Board to adopt regulations consistent with the thirty-three-percent-by-2020 target.<sup>5</sup>

Bringing renewable resources' unpredictable generation output on-line in any substantial way will require a corresponding expansion of the energy storage capability of the California transmission system. The California Independent System Operator ("CAISO") staff recognizes that pumped hydro "is the most widespread energy storage system on power networks" and the best available resource for near-term deployment to meet the anticipated expansion in large-scale energy storage capability in California.<sup>6</sup>

In anticipation of an additional renewables requirement, PG&E began in 2007 to assess the need for additional storage capacity to integrate the expected development of substantial new

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<sup>3</sup> Cal. Pub. Util. Code §§ 399.15(b)(1), 399.14(a)(2)(C)(i); D.03-06-071.

<sup>4</sup> Executive Order S-14-08 (Nov. 17, 2008).

<sup>5</sup> Executive Order S-21-09 (Sep. 15, 2009).

<sup>6</sup> CAISO, "Renewable Integration Study, Achieving California's 20% Renewables Portfolio Standard," September 2007, p. 14. Available at <http://www.aiso.com/1c64/1c64e60aa4c0.pdf>.

renewable resources. At that time, PG&E conducted a screening analysis of sites throughout its service territory that could potentially support a new pumped hydro facility.

PG&E has focused significant resources on the development of pumped hydro facilities because pumped storage hydro projects have a demonstrated history of providing bulk energy storage services, and they are uniquely qualified to integrate large quantities of intermittent renewable resources into the electricity grid. Only pumped hydro projects have the demonstrated ability to respond to significant load changes within seconds by virtue of their quick on/off and ramp-up/ramp-down capabilities. As the Under Secretary for Science at the U. S. Department of Energy testified recently before the U. S. Senate, “Currently the best form of energy storage to handle really large quantities of energy is pumped hydro.”<sup>7</sup>

There are currently six energy storage facilities in commercial operation in California, totaling nearly 4,000 MW of capacity. All of these are pumped hydro facilities, including PG&E’s Helms Pumped Storage Project, FERC Project No. 2735 (1,212 MW).<sup>8</sup> PG&E’s operationally flexible Helms Project has been in commercial operation for over twenty-five years.

Energy Secretary Chu has advised that “We should start to invest heavily in pumped hydro storage” to support an expanded electricity transmission grid that will carry a greater share

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<sup>7</sup> Statement of Dr. Steven E. Koonin, Under Secretary for Science, U. S. Department of Energy, Before the Committee on Energy and Natural Resources, United States Senate (Dec. 10, 2009), at p. 5. Available at [http://www.congressional.energy.gov/documents/12-10-09\\_Final\\_Testimony\\_\(Koonin\)\\_S4.pdf](http://www.congressional.energy.gov/documents/12-10-09_Final_Testimony_(Koonin)_S4.pdf). See also Testimony of Jon Wellinghoff, Chairman, Federal Energy Regulatory Commission, Before the Committee on Energy and Natural Resources, United States Senate (Dec. 10, 2009) (“Wellinghoff Testimony”), at p. 4 (“To date, the most used bulk electricity storage technology has been pumped storage hydroelectric technology”). Available at <http://www.ferc.gov/EventCalendar/Files/20091210101921-12-10-09-wellinghoff-testimony.pdf>.

<sup>8</sup> Existing pumped storage projects in California are: Eastwood (200 MW), FERC Project No. 67; Gianelli (San Luis) (424 MW) and Hyatt (Thermalito) (780 MW), FERC Project No. 2100; Castaic (1,200 MW), FERC Project No. 2426; Wadsworth (Diamond Valley) (40 MW), no FERC number; and Helms (1,212 MW), FERC Project No. 2735.

of intermittent generation from wind and solar sources.<sup>9</sup> One way pumped storage projects can support the use of these intermittent renewable resources is by using the intermittent resources' output during off-peak hours to pump water to an upper reservoir for energy storage. The water is then released for electricity generation during peak demand periods and captured in a lower reservoir where it is stored until it is pumped back up again to the upper reservoir.

Moreover, pumped storage projects can provide a wide variety of specific operating characteristics desired and purchased by the CAISO as "ancillary services" to maintain and enhance the overall operating efficiency and reliability of the electric power system in California. The CAISO recognizes that "renewable integration, especially at higher levels, requires increased flexibility of system resources, including increased participation by storage and demand response."<sup>10</sup> The CAISO "envisions the development of new storage and demand response regulation energy capabilities to meet regulation requirements when more renewable generation is on-line."<sup>11</sup>

And as FERC Chairman Wellinghoff testified:

*[S]torage can do more than just balance the variable nature of solar and wind resources. The Energy Advisory Committee on Storage, convened by the Energy Policy Act of 2005, found that storage can: improve grid optimization for bulk power production via energy arbitrage; defer the need for investments in transmission and distribution infrastructure to meet peak loads; . . . and provide ancillary services directly to the grid or market operators.<sup>12</sup>*

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<sup>9</sup> Remarks of Steven Chu, Secretary, U. S. Department of Energy, Center for American Progress forum, February 23, 2009. Available at [http://www.hydropworld.com/index/display/article-display/5283147802/articles/hrhrw/hydroindustrynews/pumpedstoragehydro/Energy\\_secretary\\_urges\\_pumped\\_storage\\_investment\\_to\\_support\\_grid.html](http://www.hydropworld.com/index/display/article-display/5283147802/articles/hrhrw/hydroindustrynews/pumpedstoragehydro/Energy_secretary_urges_pumped_storage_investment_to_support_grid.html)

<sup>10</sup> CAISO, "Renewable Resources and the California Electric Power Industry: System Operations, Wholesale Markets and Grid Planning," July 20, 2009, p. 12. Available at <http://www.caiso.com/23f1/23f19422741b0.pdf>.

<sup>11</sup> *Id.* at p. 16.

<sup>12</sup> Wellinghoff Testimony at p. 3.

Chairman Wellinghoff further explained that “Ancillary services like regulation are essential to keep the system balanced and prevent it from cascading into a blackout. The need for regulation services can dramatically increase as the amount of variable renewable resources is increased.”<sup>13</sup>

As noted above, in an effort to prepare for the integration of significant intermittent renewable resources, PG&E conducted a screening analysis of sites throughout its service territory that could potentially support development of a new pumped storage facility. The screening analysis identified eight alternatives in three watersheds that warranted additional study. Going forward, PG&E intends to focus primarily on the Mokelumne watershed site for further evaluation and study. The Mokelumne site has the greatest potential for development because the site topography is relatively steep, affording the potential to develop the substantial “head” necessary for any large-scale pumped storage project. In addition, existing hydroelectric infrastructure, such as the Lower Bear and Salt Springs reservoirs, which are part of PG&E’s Mokelumne Hydroelectric Project, FERC Project No. 137, are sufficiently large to accommodate modification for a pumped storage project.

## **B. Mokelumne Pumped Storage Project Description.**

### **1. General.**

If constructed, the MPSP would provide up to 1,200 MW of pumped storage capability by 2020. One of the benefits of the MPSP is that it can be sized depending on the determined need once the feasibility, licensing, and design efforts are fully evaluated (i.e., at 400 MW, 800 MW or 1,200 MW).

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<sup>13</sup> *Id.* at pp. 3-4.

While the MPSP would cost an estimated \$2.5 billion to construct (subject to License requirements and detailed engineering), this Application, with respect to the MPSP, addresses only the estimated \$31.900 million in costs associated with: **(1)** the costs of evaluating the feasibility of developing the MPSP; **(2)** if found feasible, the costs associated with completing the FERC hydropower licensing process; and **(3)** if necessary, the costs of preparing a sufficiently detailed design to finalize an application to the Commission seeking cost recovery authority for construction of the MPSP.

Costs of construction are not within the scope of this Application. Further, PG&E would halt development activities if it determined that continuing to pursue the MPSP was not in its customers' best interest.

In addition to enhancing the ability to integrate intermittent renewable energy generation into the CAISO grid, the MPSP is expected to have relatively modest environmental impacts by making use of existing reservoirs. PG&E primarily intends to focus its continuing evaluation on the feasibility of using its existing Salt Springs Reservoir as the lower reservoir coupled with its existing Lower Bear Reservoir as the upper reservoir. Potential alternative configurations would either utilize the existing Upper Bear Reservoir or involve construction of a small new reservoir on a nearby creek (Cole Creek) as the upper reservoir. In addition, the MPSP is expected to utilize new underground waterways connecting the reservoirs, and the powerhouse is likewise expected to be constructed underground.

Moreover, as with all pumped storage projects, a relatively small quantity of water, estimated at less than 6,000 acre-feet, would be continuously re-used for energy storage by repeated cycles of pumping and generating.

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## 2. Current Regulatory Status of MPSP.

PG&E currently holds a Preliminary Permit issued by FERC for the Mokelumne site. Upon issuance of a Preliminary Permit, a Permittee is granted the exclusive right to study the feasibility of developing a proposed project as described in the Preliminary Permit.<sup>14</sup> A Preliminary Permit does not authorize any construction activities. To physically construct a project, a project proponent must first submit a License Application to FERC and receive a License from FERC authorizing the project. To support a License Application, a project proponent must, among other things, do the following: **(1)** meet detailed requirements for consultation with resource agencies, tribes, non-governmental organizations, and other interested stakeholders; **(2)** identify information about the proposed project and issues arising from the project; **(3)** conduct extensive studies of all identified environmental and social resource issues; and **(4)** develop protection, mitigation and enhancement measures for the project.<sup>15</sup>

PG&E has already initiated substantial stakeholder outreach for the Mokelumne River site. Specifically, beginning in April 2008 and continuing to the present, PG&E has conducted public meetings, given presentations, and held informational conference calls soliciting stakeholder input. In addition, PG&E has filed with FERC, as required by its Preliminary Permit, Six-Month Progress Reports.<sup>16</sup> These Reports provide additional detail on PG&E's outreach activities to date for the MPSP. While outreach to date has been significant, substantially more outreach will be critical to fully evaluate the feasibility of the MPSP.

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<sup>14</sup> See 18 C.F.R. § 4.80 (“The sole purpose of a preliminary permit is to secure priority of application for a License for a water power project . . . while the permittee obtains the data and performs the acts required to determine the feasibility of the project and to support an application for a License”).

<sup>15</sup> See generally, 18 C.F.R. Parts 4 and 5.

<sup>16</sup> See, Progress Report No. 1 at <http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=11948866>, Progress Report No. 2 at <http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=12121341>, and Progress Report No. 3 at <http://elibrary.ferc.gov/idmws/common/opennat.asp?fileID=12279274>.

### 3. Scope and Cost of MPSP Studies.

The MPSP studies contemplated by this Application will consist of feasibility, licensing, and design studies, as follows:

- Feasibility studies are expected to include: **(1)** refined design and cost estimates; **(2)** a needs assessment to consider issues such as capacity and system integration requirements; and **(3)** a refined cost/benefit analysis.
- Licensing studies are expected to include significant stakeholder engagement, study plan development, environmental information gathering and additional activities required in support of submission of a License Application to FERC and potential issuance of a project License by FERC.
- Design studies are expected to include engineering activities to refine project design and cost estimates, and to ultimately include sufficiently detailed design and cost estimates to support a subsequent Application to the Commission, if necessary, for project construction funding.

The amount of work necessary to conduct these studies is substantial and, as such, is typically conducted by outside consultants with oversight by internal PG&E staff. PG&E is seeking cost recovery authority for costs associated with outside consultants and internal consulting service providers not funded in the GRC.<sup>17</sup> PG&E is not seeking funding for its other non-charge-back labor internal costs.

Because the opportunity to pursue the MPSP studies contemplated in this Application was not sufficiently developed at the time PG&E filed its 2011 GRC Notice of Intent in 2009, PG&E did not include costs for the MPSP in its GRC forecast.

PG&E has estimated the costs of the scope of work included in this filing for the MPSP using a variety of resources, including its own considerable expertise in the FERC licensing

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<sup>17</sup> Costs associated with certain PG&E support departments, such as Environmental Services and Land Services, are not directly recovered through the GRC, but are charged to the client departments they support. Ultimately, these costs are recovered through a variety of cost recovery proceedings, including separate Applications such as the instant one.

process and that of external consultants. PG&E holds twenty-six FERC Hydropower Licenses and operates one-hundred-and-ten hydro units at sixty-eight powerhouses representing a total generating capacity of 3,896 MW. PG&E has completed relicensing for nine Hydro Projects over the past decade and is actively relicensing seven Hydro Projects. Many of the relicensing activities that PG&E routinely performs, including detailed environmental studies, are very similar to the activities contemplated in this Application.

The following Table 1-1 lists the estimated costs of the various development studies and activities contemplated by this Application:

**TABLE 1-1  
PACIFIC GAS AND ELECTRIC COMPANY  
PUMPED STORAGE PROJECT  
DETAILED STUDY/LICENSING/DEVELOPMENT COSTS  
(NOMINAL THOUSAND DOLLARS)**

| Line No. | Year of Operation                        | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Total  |
|----------|--|--------|--------|--------|--------|--------|--------|--------|
| 1        | Project Management                       | 346    | 359    | 373    | 387    | 401    | 416    | 2,281  |
| 2        | Study Plan Development                   | 559    |        |        |        |        |        | 559    |
| 3        | Conduct Licensing Studies                | 2,184  | 3,341  | 3,405  | 2,313  |        |        | 11,243 |
| 4        | Prepare and File FERC Application        | 690    | 716    |        |        |        |        | 1,405  |
| 5        | Obtain Water Quality Certification       |        |        | 497    | 507    | 259    |        | 1,263  |
| 6        | Post-Application Activities              |        |        | 699    | 725    | 376    |        | 1,800  |
| 7        | Engineering Studies                      | 1,119  | 934    | 211    | 269    | 1,209  | 1,513  | 5,256  |
| 8        | Generation Tie Line Studies              | 866    | 1,917  | 1,315  |        |        |        | 4,097  |
| 9        | CAISO – Interconnection Approval Process |        |        | 53     | 269    | 275    | 280    | 877    |
| 10       | Benefits Quantification Investigations   |        |        |        |        | 110    |        | 110    |
| 11       | Land-Related Investigations              |        | 108    |        |        |        |        | 108    |
| 12       | <b>Subtotal</b>                          | 5,765  | 7,374  | 6,552  | 4,470  | 2,629  | 2,210  | 29,000 |
| 13       | <b>Contingency (10%)</b>                 | 576    | 737    | 655    | 447    | 263    | 221    | 2,900  |
| 14       | Additional Storage Studies               | 775    | 400    | 400    |        |        |        | 1,575  |
| 15       | <b>Total w/Contingency</b>               | 7,116  | 8,512  | 7,608  | 4,917  | 2,892  | 2,430  | 33,475 |

PG&E’s estimating method included a review of current and past relicensing projects that are comparable in scope and scale to the MPSP. Each relicensing category was reviewed and a cost estimate was subsequently established. For these categories, the cost was estimated at the average of the cost for the comparable relicensing projects.

Because the costs are averaged, it is possible that the actual cost for an individual line item could be greater or less than the averaged value. Because this study and licensing effort will be a complex process and the estimating method uses averages, it is prudent to include contingency to account for the uncertainty of the estimate. Based on PG&E's experience, PG&E has applied a ten percent (10%) contingency to all aspects of this effort to recognize the uncertainty of the estimating process.

#### **4. MPSP Operation.**

If constructed, PG&E expects to exercise operational control over the MPSP. As it currently does with its Helms Pumped Storage Project, FERC Project No. 2735, PG&E would bid, or self-schedule, energy and ancillary services products from the MPSP into the CAISO market in support of optimizing the value of PG&E's electric supply portfolio.

Revenues received from the CAISO market would flow to PG&E's electric customers through normal Commission processes, including the Energy Resource Recovery Account ("ERRA"). The renewable integration benefits from the MPSP would likely include lower overall generation costs for PG&E retail bundled electric customers than would be achieved through other renewable integration solutions such as the use of gas-fired power plants.

#### **5. MPSP Construction Costs.**

If constructed, the estimated cost of the MPSP through all phases of development from the present to commercial operation (estimated 2020), ranges from \$2,000 to \$3,000 per kW in 2010 dollars, for a project ranging in size from a single 400-MW unit to three 400-MW units (total of 1,200 MW). One of the objectives of the feasibility and design studies is to better refine the estimated range in total development costs and project size.

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## 6. MPSP Benefits.

Energy storage systems can provide multiple benefits. Some of these benefits are more readily quantified than others. In this Application, PG&E has quantitatively estimated values for capacity, energy, and ancillary services benefits (e.g., regulation, spinning reserves, and non-spinning reserves) associated with the MPSP.

PG&E estimates the following benefits (on a present value basis) for the MPSP:

- Capacity: \$0.3 to \$2.1 billion. The low end of this range is based on approximately \$20 per kW-year for the capacity; the high end is based on approximately \$150 per kW-year. This is a plausible range of values for the capacity.
- Energy: up to \$0.5 billion based on an extrapolation of real-time energy price arbitrage in 5-minute intervals.
- Ancillary Services (Regulation, Spinning Reserves and Non-Spinning Reserves): \$0.3 to \$7.0 billion. The low end of this range is based on approximately \$2 per MW per hour for ancillary services; the high end is based on approximately \$70 per MW per hour for ancillary services. The low estimate is based on the opportunity cost for a combustion turbine to provide regulation rather than energy. The high estimate is based on the full operating cost for a combustion turbine to provide regulation, at a heat rate of approximately 12,000 Btu per kWh and a natural gas price of roughly \$6.00 (levelized) per million Btu. Costs for greenhouse gas emissions associated with a combustion turbine are not included in these costs. This wide range for ancillary services is indicative of the great uncertainty in estimates today of integrating intermittent renewables into the electric grid in California, and the western United States more broadly.

These benefit estimates are not additive, however. For example, if ancillary services are worth nearly \$7 billion, then capacity benefits are estimated to be worth closer to \$0.3 billion than \$2.1 billion for a total of \$7.3 billion in project benefits. Similarly, if energy benefits are zero and ancillary services are \$2/MWh (\$0.3 billion value for the project), then capacity benefits are projected to be closer to \$110/kW-year (\$1.5 billion for the project) for a total of \$1.8 billion in project benefits.

Thus, the quantified benefits of the MPSP may range from approximately \$1.8 billion to \$7.3 billion. However, there are other possible benefits of pumped storage that have not been quantified here, including VAR support and transmission congestion relief.

The total benefits of the MPSP are subject to uncertainty today. This uncertainty is associated with the requirements and costs to integrate intermittent renewables into the electric grid. A great deal of work is currently underway in the United States, California, and at PG&E to estimate more precisely these requirements and costs.

In comparison to the MPSP's estimated benefits ranging from \$1.8 billion to \$7.3 billion, the total costs for the MPSP are estimated at approximately \$2.5 billion. Consequently, preserving PG&E's option to develop the MPSP is warranted and in the best interest of PG&E's customers. Because of the significant lead time in developing a project of this magnitude, it is prudent for PG&E to position itself to be able to offer, once the extent of the need for energy storage solutions is more clearly identified, cost-effective pumped storage to help meet California's needs for electric resources.

#### **7. MPSP Development Timeline.**

Upon the Commission's issuance of a decision authorizing the cost recovery requested in this Application, PG&E would initiate work on environmental and engineering studies for the MPSP and engage in other pre-licensing activities. Upon completion of pre-licensing activities, PG&E expects to prepare and submit an Application to FERC for an original License (or an amendment to its existing License for the Mokelumne Hydroelectric Project, FERC Project No. 137) authorizing the MPSP. PG&E anticipates that FERC would issue an original License or License amendment for the MPSP between the end of 2014 and the end of 2015. PG&E would then submit an Application to the Commission seeking a need determination and cost recovery

authority for construction of the MPSP. PG&E anticipates that the Commission would issue its determination on PG&E's Application for cost recovery for construction of the MPSP in 2016.

### **C. Other Pumped Storage Opportunities**

As noted above, in an effort to prepare for the integration of significant intermittent renewable resources, PG&E conducted a screening analysis of sites throughout its service territory that could potentially support development of a new pumped storage facility. The screening analysis identified eight alternatives in three watersheds that warranted additional study. While going forward PG&E intends to focus primarily on the Mokelumne watershed site, it believes it prudent to continue studying the feasibility of developing the other sites identified as having the potential to support new pumped storage facilities. To that end, PG&E is requesting through this Application the authority to recover \$1.575 million to continue studying these additional sites.

For example, one of the other sites under review by PG&E is located in the Kings River watershed in Fresno County, California. As with the Mokelumne watershed site discussed above, PG&E holds a FERC Preliminary Permit for the Kings watershed site. At the Kings Watershed site, PG&E will evaluate the feasibility of using its existing Wishon Reservoir as the lower reservoir coupled with a small new reservoir on a nearby creek as the upper reservoir. PG&E will also evaluate making upgrades to its existing Helms Pumped Storage Project on the Kings River Watershed Project, FERC Project No. 2735, to increase the pumped storage capacity beyond its current 1,212 MW. As with the MPSP, the Kings River watershed project would be expected to utilize new underground waterways connecting the reservoirs. The powerhouse would likewise be expected to be constructed underground.

PG&E also intends to study the development potential of additional sites identified in its screening analysis, including two opportunities identified in the relicensing proceeding for PG&E’s Drum-Spaulding Project, FERC Project No. 2310. PG&E’s estimates of the costs associated with the studies for the additional pumped storage opportunities are shown in Table 1-1, line 14.

**D. PG&E’s Ratemaking Proposal.**

PG&E requests the Commission to authorize PG&E to establish a Pumped Storage Project Balancing Account (“PSPBA”) to record and recover its actual costs of conducting the MPSP and other pumped storage development studies. PG&E estimates that the expenses associated with these studies will be \$33.475 million. The estimated costs are incremental and are not reflected in any other PG&E proceeding.<sup>18</sup>

While studies undertaken to support the relicensing of PG&E’s existing hydro Licenses are capitalized, the instant studies are proposed to be undertaken to support projects that are less certain and may not be constructed. Therefore, these costs are appropriately classified as expense.

PG&E proposes to commence recovery of costs over a six year period based upon the \$33.475 million estimate and to true-up annually its generation rates based upon actual costs recorded in the PSPBA. The annual estimates of expense for these studies are provided below (in nominal thousand dollars):

|                                       | <b>Year 1</b> | <b>Year 2</b> | <b>Year 3</b> | <b>Year 4</b> | <b>Year 5</b> | <b>Year 6</b> | <b>Total</b> |
|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| <b>MPSP Study Costs</b>               | 6,341         | 8,111         | 7,207         | 4,917         | 2,892         | 2,430         | 31,900       |
| <b>Additional Storage Study costs</b> | 775           | 400           | 400           | 0             | 0             | 0             | 1,575        |
| <b>Total</b>                          | 7,116         | 8,512         | 7,608         | 4,917         | 2,892         | 2,430         | 33,475       |

<sup>18</sup> As noted earlier in the Application, the \$1.575 million in costs for pumped storage activities unrelated to the MPSP development effort were included in PG&E’s 2011 GRC filing (A.09-12-020) and withdrawn by stipulation of counsel during evidentiary hearings in the case.

PG&E proposes that the costs recorded to the PSPBA be recovered in the Utility Generation Balancing Account (“UGBA”), or its successor, as part of the Annual Electric True-Up (“AET”) for recovery through CPUC-jurisdictional rates.

As described in more detail below, the PSPBA is designed to ensure that PG&E records and recovers its actual costs of performing the MPSP and other pumped storage development studies described in this Application. PG&E also proposes that recovery of any expenditure above the \$33.475 million estimate presented here would be conditioned on a Commission finding of reasonableness.

Specifically, on the effective date of the decision in this proceeding, PG&E will begin to accrue the first year annual cost of \$7.116 million, plus an allowance for Uncollectibles and Franchise Fees, in the UGBA. Since rates will not be changed at that time, all else being equal this will result in an under collection in the UGBA. At the same time, PG&E will begin making entries into the PSPBA equal to the difference between the authorized annual cost estimate and the actual expenses. At the end of the calendar year, the UGBA under collection and the PSPBA balance will be included in the Annual Electric True-up to be recovered in rates. One year after the effective date of the decision, the amount being accrued in UGBA will change to the second-year annual cost estimate of \$8.512 million, plus an allowance for Uncollectibles and Franchise Fees. Until the end of the program, the amount to be collected in the UGBA and entered into the PSPBA would be similarly determined. At no time would the cumulative amount collected in rates exceed the total amount of \$33.475 million, adjusted for Uncollectibles and Franchise Fees, without a Commission finding of reasonableness of the amounts above that amount.<sup>19</sup>

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<sup>19</sup> Note that to the extent the MPSP and other pumped storage development study costs exceed the \$33.475 million estimate presented in this Application, recovery would be limited to \$33.475 million pending reasonableness review of the additional expenditures. An under-collection in the PSPBA would result, as the costs associated with

Amounts included in the UGBA for recovery in rates would be collected in generation rates in the same manner as other generation revenue. New rates to include recovery of these costs would be designed based upon the then-current adopted methods for setting electric rates for generation revenue requirement changes.

**E. Conclusion.**

Based on current information, PG&E believes the MPSP is a valuable option for future integration of renewable resources. PG&E likewise believes the other sites it has identified for potential pumped storage development could provide valuable renewable integration options. Therefore, PG&E is filing this Application to maintain the option of bringing on-line by 2020, up to 1,200 MW of proven energy storage capability associated with the MPSP, and to facilitate the development of additional pumped storage sites in California.

Given the significant lead time in developing a project of the magnitude of the MPSP, it is prudent for PG&E to position itself such that when the extent of the need for energy storage solutions is more firmly identified, PG&E will be able to offer – in a timely manner – cost-effective pumped storage to help to meet the needs of California’s electric transmission system. Therefore, PG&E requests that the Commission approve this Application and authorize PG&E to recover in rates using the balancing account cost recovery mechanism described above, up to \$33.475 million in expenditures, to further study the feasibility of the MPSP and the other pumped storage projects and sites discussed herein.

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the expenditures above \$33.475 million would be recorded in the account but there would be no offsetting amount reflecting recovery in rates through the UGBA. In order to recover these costs in rates, PG&E would seek a reasonableness determination for these costs.

**III. THIS APPLICATION IS AUTHORIZED BY SEVERAL SECTIONS OF THE PUBLIC UTILITIES CODE (RULE 2.1).**

This Application is made pursuant to the general authority of the Commission, including its ratemaking authority, under the provisions of the California Public Utilities Code, including without limitation, §§ 399.11, 454.5, and 701, the Commission’s Rules of Practice and Procedure, and prior decisions, orders, and resolutions of the Commission including, but not limited to, D.03-06-071, D.03-12-065, D.04-06-013, and D.04-07-029.

Public Utilities Code § 701 provides that “the commission may supervise and regulate every public utility in the state and may do all things, whether specifically designated in this part or in addition thereto, which are necessary and convenient in the exercise of such power and jurisdiction.” While this does not give the Commission unlimited power, it provides the Commission with the authority to grant the relief requested in this Application, i.e., the authority to permit PG&E to recover certain costs incurred in connection with its efforts to study and develop new pumped storage projects.

Section 454.5 provides for the Commission to adopt a procurement plan for PG&E. Section 454.5 makes clear that the use of renewable resources to meet currently unmet resource needs is a high priority for the state, and one to be encouraged by the Commission. Pumped storage projects may facilitate the integration of renewable resources into the California grid. As such, § 454.5, coupled with the Commission’s general grant of authority in § 701, provides the Commission with the authority to authorize PG&E to expend funds to further explore the feasibility of pumped storage projects, and recover those expenditures in rates.

Finally, § 399.11 establishes California’s RPS program and the requirement to generate twenty percent (20%) of total retail sales of electricity in California from eligible renewable

energy resources by December 31, 2010. Pumped storage projects may facilitate the integration of renewable resources into the California grid. As such, § 399.11, coupled with the Commission's general grant of authority in § 701, provides the Commission with the authority to authorize PG&E to expend funds to further explore the feasibility of pumped storage projects, and recover those expenditures in rates.

D.03-06-071, D.03-12-065, D.04-06-013, and D.04-07-029 are relevant to the relief requested in the Application. These initial RPS decisions set forth the Commission's policy on procuring renewable resources. The relief requested in the Application supports this policy by allowing PG&E to study the feasibility of, and recover certain development costs, associated with pumped storage projects that may be capable of helping to integrate into the California grid substantial intermittent renewable resources. If the studies indicate that the MPSP is feasible and that the filing of a FERC License Application is warranted, the Commission's policy on procuring renewable resources would be advanced.

D.03-06-071 and D.03-12-065 took the initial steps of implementing the RPS program required by Senate Bill 1078. These decisions set forth the Commission's commitment to renewable resources and laid out the basic policies for the program. As stated above, the relief requested in the Application is consistent with that commitment.

#### **IV. APPLICANT INFORMATION (RULE 2.1)**

The legal name of the Applicant is Pacific Gas and Electric Company. PG&E's principal place of business is San Francisco, California. Its post office address is: P. O. Box 7442, San Francisco, CA, 94120-7442. PG&E is a corporation organized under the laws of the State of California.

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**A. Contact Information.**

Communications regarding this Application, including service by e-mail, should be addressed to Matthew A. Fogelson and Dionne Adams at the addresses shown below:

Matthew A. Fogelson, Attorney  
Law Department  
Pacific Gas and Electric Company  
P. O. Box 7442, B30A  
San Francisco, CA 94105  
Telephone: (415) 973-7475  
Facsimile: (415) 972-5520  
E-Mail: mafv@pge.com

Dionne Adams  
Operations Proceedings Department  
Pacific Gas and Electric Company  
77 Beale Street, B9A  
San Francisco, CA 94105  
Telephone: (415) 973-6157  
Facsimile: (415) 973-7131  
Email: dng6@pge.com

**B. PG&E's Articles of Incorporation (Rule 2.2).**

PG&E is and, since October 10, 1905, has been an operating public utility corporation organized under California law. It is engaged principally in the business of furnishing electric and gas services in California. A certified copy of PG&E's Restated Articles of Incorporation, effective April 12, 2004, is on record before the Commission in connection with PG&E's Application 04-05-005 filed with the Commission on May 3, 2004. These Articles are incorporated herein by reference, pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure.

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**V. PROPOSED CATEGORIZATION, NEED FOR HEARING, ISSUES TO BE CONSIDERED, AND SCHEDULE (RULE 2.1(c)).**

**A. Proposed Categorization.**

PG&E proposes that this proceeding be categorized as a rate-setting proceeding, as defined by Public Utilities Code § 1701.1(c)(3).

**B. No Evidentiary Hearing Is Needed.**

PG&E requests that the Commission find, pursuant to Public Utilities Code § 1701.1(a), that no evidentiary hearing is required to issue the relief sought and requests that it be processed on an expedited *ex parte* basis. No hearings are necessary because the relief requested is straightforward, any revenues above actual costs will be refunded to customers, and a subsequent Commission determination is required to increase cost recovery above the amount estimated in this Application.

**C. Issues To Be Considered.**

PG&E proposes the following issues be considered in this proceeding:

1. Should PG&E be authorized to recover the costs of external and internal consultants and other direct charges, up to \$31.900 million, to: **(1)** study the feasibility of developing a pumped storage power project of up to 1,200 MW on the Mokelumne River; **(2)** if found feasible, to prepare, submit, and process a FERC License Application for the construction of the pumped storage project; and **(3)** prepare a sufficiently detailed design to finalize an Application to the Commission, if necessary, seeking cost recovery authority for construction of the Project?
2. Should PG&E be authorized to recover the costs of external and internal consultants and other direct charges, up to \$1.575 million, to study the feasibility of developing pumped storage power projects on the Kings River and at other sites?
3. Should PG&E be authorized to record these costs in a Pumped Storage Project Balancing Account and to seek

necessary tariff revisions to implement this proposal within 30 days of the decision date?

**D. Proposed Schedule.**

For the reasons stated above, PG&E believes that an evidentiary hearing is not required for the Commission to issue the relief sought in this Application and it requests that the Commission process the Application on an expedited *ex parte* basis. Consequently, PG&E recommends the following schedule for expedited decision making, with an emphasis on written pleadings and comments in lieu of evidentiary hearings:<sup>20</sup>

|                                       |                    |
|---------------------------------------|--------------------|
| File Application                      | August 20, 2010    |
| Protests Due                          | September 20, 2010 |
| Reply to Protests                     | September 30, 2010 |
| Pre-Hearing Conference                | October 8, 2010    |
| Scoping Memo                          | October 18, 2010   |
| Intervenor Written Comments Served    | October 29, 2010   |
| Applicant Reply Comments              | November 8, 2010   |
| Concurrent Briefs                     | November 22, 2010  |
| Proposed Decision                     | January 12, 2011   |
| Opening Comments on Proposed Decision | February 1, 2011   |
| Reply Comments on Proposed Decision   | February 6, 2011   |
| Decision                              | February 28, 2011  |

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<sup>20</sup> Applications seeking similar relief to that sought in this Application have been resolved by the Commission within seven months or less. *See e.g.*, A. 10-01-014, Decision issued August 12, 2010; A. 09-09-019, Decision issued January 21, 2010; and A.06-08-011, Decision issued March 1, 2007.

**VI. THIS APPLICATION IS EXEMPT FROM CEQA REQUIREMENTS (RULE 2.4).**

The California Environmental Quality Act (“CEQA”) applies to projects that require discretionary approval from a governmental agency unless exempted by statute or regulation. PG&E’s Application does not meet the definition of a “project” under CEQA. CEQA defines a “project” as:

*An activity which may cause either a direct or physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and which is any of the following:*

- (a) An activity which is directly undertaken by any public agency.*
- (b) An activity by a person which is supported, in whole or in part, through contracts, grants, subsidies, loans or other forms of assistance from one or more public agencies.*
- (c) An activity that involves the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.<sup>21</sup>*

PG&E’s request does not meet the threshold requirement of an activity that may cause direct or indirect physical changes in the environment. Where the agency’s action merely establishes its ability to take a later action that could affect the environment, but does not commit to a definite course of action, that agency’s action is not a “project” subject to CEQA.<sup>22</sup> Because PG&E’s request in this proceeding is limited to recovery of study costs, the Commission decision on this Application will not commit it to any definite course of action.

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<sup>21</sup> California Public Resources Code § 21065

<sup>22</sup> See *Citizens to Enforce CEQA v. City of Rohnert Park* (2005) 131 Cal.App.4<sup>th</sup> 1594, 1601; *Kaufman & Broad-South Bay, Inc. v. Morgan Hill Unified School District* (1992) 9 Cal. App.4<sup>th</sup> 464, 476 (formation of a Mello-Roos district without determining specific school improvements was a funding mechanism that did not require CEQA review); *Fullerton Joint Union High Sch. Dist. v. State Bd. of Educ.* (1982) 32 Cal.3d 779, 796.

Moreover, regardless of whether PG&E’s cost recovery request is considered a “project” under CEQA, it nevertheless is statutorily exempt from review under CEQA. It is long established that the act of ratemaking by the Commission is exempt from CEQA review. As stated in the California Public Resources Code, the “establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, or other charges by public agencies” is exempt from CEQA.<sup>23</sup>

**VII. EXHIBITS REQUIRED OF AN APPLICATION FOR AUTHORITY TO INCREASE RATES ARE INCORPORATED BY REFERENCE (RULE 3.2).**

**A. Balance Sheet and Income Statement (Rule 3.2(a)(1)).**

A copy of PG&E’s most recent balance sheet and income statement are contained in Exhibit A of this Application.

**B. Statement of Presently Effective Rates (Rule 3.2(a)(2)).**

The presently effective electric rates PG&E proposes to modify are set forth in Exhibit B of this Application.

**C. Statement of Proposed Changes and Results of Operations at Proposed Rates (Rule 3.2(a)(3)).**

This statement is not required since the proposed annual amounts PG&E is seeking to recover in this Application are less than one tenth of one percent (1%) of the annual amount currently included in PG&E’s electric rates.

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<sup>23</sup> California Public Resources Code § 21080(b)(8). Note also that in the event PG&E files a License Application with FERC to construct the MPSP, FERC, as the action agency, would undertake environmental review under the National Environmental Policy Act, 42 U.S.C. § 4321 et seq. The California State Water Resources Control Board would have mandatory conditioning authority over the MPSP pursuant to § 401 of the federal Clean Water Act, 33 U.S.C. § 1341, and would represent the State of California as lead agency for purposes of CEQA review. In addition, the U. S. Forest Service and U.S. Fish and Wildlife Service would likely have mandatory conditioning authority over the MPSP under §§ 4(e) and 10(j), respectively, of the Federal Power Act, 16 U.S.C. §§ 797(e) and 803(j).

**D. Summary of Earnings (Rule 3.2(a)(5) and (6)).**

The rate of return for the recorded year 2009 is set forth in Exhibit C of this Application.

**E. Type of Rate Change Requested (Rule 3.2(a)(10)).**

This Application's proposed rate increases reflect and pass through to customers only increased costs to PG&E for the services or commodities furnished by it.

**F. Notice and Service of Application (Rule 3.2(b)-(d)).**

Within ten (10) days of filing this Application, PG&E will mail, or send electronically, a Notice stating in general terms the proposed revenues, rate changes, and ratemaking mechanisms requested in this Application to parties listed in Exhibit D, including the State of California and cities and counties served by PG&E. This Application and attachments, or a Notice of Availability of this Application and attachments, is being served on parties of record in relevant related proceedings, if any. PG&E will publish in newspapers of general circulation, in each county in its service area, a Notice of Filing of this Application, and PG&E will include notices with the regular bills mailed to all customers affected by the proposed changes.

**VIII. REQUESTED RELIEF.**

Wherefore, PACIFIC GAS AND ELECTRIC COMPANY respectfully requests the Commission to issue an order:

**1.** Authorizing PG&E to recover the costs of external and internal consultants and other direct charges, up to \$33.475 million, to:

- (1)** Study the feasibility of developing a pumped storage power project of up to 1,200 MW on the Mokelumne River;
- (2)** If found feasible, to prepare, submit and process a FERC License Application for the construction of the Mokelumne Pumped Storage Project;



## VERIFICATION

I, JANE K. YURA, say:

I am an officer of Pacific Gas and Electric Company, a corporation, and I am authorized to make this Verification for and on behalf of said corporation and make this Verification for that reason. I have read the foregoing Application and am informed and believe that the matters contained therein are true, and, on that ground, I allege that the matters stated herein are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed at San Francisco, California this 20th day of August, 2010.

/S/

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**JANE K. YURA**  
**Vice President – Regulation and Rates**  
**PACIFIC GAS AND ELECTRIC COMPANY**

PACIFIC GAS AND ELECTRIC COMPANY  
CONDENSED CONSOLIDATED STATEMENTS OF INCOME

(Unaudited)

| (in millions)                                   | Three Months Ended |               | Six Months Ended |               |
|---|--------------------|---------------|------------------|---------------|
|   | June 30,           |               | June 30,         |               |
|   | 2010               | 2009          | 2010             | 2009          |
| <b>Operating Revenues</b>                       |                    |               |                  |               |
| Electric  | \$ 2,515           | \$ 2,554      | \$ 5,025         | \$ 4,980      |
| Natural gas                                     | 717                | 640           | 1,682            | 1,645         |
| <b>Total operating revenues</b>                 | <b>3,232</b>       | <b>3,194</b>  | <b>6,707</b>     | <b>6,625</b>  |
| <b>Operating Expenses</b>                       |                    |               |                  |               |
| Cost of electricity                             | 863                | 883           | 1,783            | 1,766         |
| Cost of natural gas                             | 247                | 188           | 742              | 745           |
| Operating and maintenance                       | 958                | 1,037         | 1,948            | 2,096         |
| Depreciation, amortization, and decommissioning | 468                | 429           | 919              | 848           |
| <b>Total operating expenses</b>                 | <b>2,536</b>       | <b>2,537</b>  | <b>5,392</b>     | <b>5,455</b>  |
| <b>Operating Income</b>                         | <b>696</b>         | <b>657</b>    | <b>1,315</b>     | <b>1,170</b>  |
| Interest income                                 | 2                  | 17            | 4                | 26            |
| Interest expense                                | (164)              | (166)         | (320)            | (339)         |
| Other income (expense), net                     | 1                  | 15            | (5)              | 36            |
| <b>Income Before Income Taxes</b>               | <b>535</b>         | <b>523</b>    | <b>994</b>       | <b>893</b>    |
| Income tax provision                            | 196                | 132           | 391              | 263           |
| <b>Net Income</b>                               | <b>339</b>         | <b>391</b>    | <b>603</b>       | <b>630</b>    |
| Preferred stock dividend requirement            | 4                  | 4             | 7                | 7             |
| <b>Income Available for Common Stock</b>        | <b>\$ 335</b>      | <b>\$ 387</b> | <b>\$ 596</b>    | <b>\$ 623</b> |

PACIFIC GAS AND ELECTRIC COMPANY  
CONDENSED CONSOLIDATED BALANCE SHEETS

| (in millions)   | (Unaudited)      |                      |
|---|------------------|----------------------|
|   | Balance At       |                      |
|   | June 30,<br>2010 | December 31,<br>2009 |
| <b>ASSETS</b>   |                  |                      |
| <b>Current Assets</b>   |                  |                      |
| Cash and cash equivalents   | \$ 60            | \$ 334               |
| Restricted cash   | 583              | 633                  |
| Accounts receivable:  |                  |                      |
| Customers (net of allowance for doubtful accounts of \$71 at<br>June 30, 2010 and \$68 at December 31, 2009)                      | 846              | 859                  |
| Accrued unbilled revenue  | 722              | 671                  |
| Regulatory balancing accounts   | 1,369            | 1,109                |
| Other   | 794              | 751                  |
| Inventories:  |                  |                      |
| Gas stored underground and fuel oil   | 142              | 114                  |
| Materials and supplies  | 192              | 200                  |
| Income taxes receivable   | -                | 138                  |
| Prepaid expenses and other  | 733              | 662                  |
| <b>Total current assets</b>   | <b>5,441</b>     | <b>5,471</b>         |
| <b>Property, Plant, and Equipment</b>   |                  |                      |
| Electric  | 31,408           | 30,481               |
| Gas   | 10,971           | 10,697               |
| Construction work in progress   | 2,149            | 1,888                |
| <b>Total property, plant, and equipment</b>   | <b>44,528</b>    | <b>43,066</b>        |
| Accumulated depreciation  | (14,546)         | (14,175)             |
| <b>Net property, plant, and equipment</b>   | <b>29,982</b>    | <b>28,891</b>        |
| <b>Other Noncurrent Assets</b>  |                  |                      |
| Regulatory assets (\$944 and \$1,124 related to Energy Recovery<br>Bonds at June 30, 2010 and December 31, 2009,<br>respectively) | 5,610            | 5,522                |
| Nuclear decommissioning trusts  | 1,854            | 1,899                |
| Income taxes receivable   | 740              | 610                  |
| Other   | 368              | 316                  |
| <b>Total other noncurrent assets</b>  | <b>8,572</b>     | <b>8,347</b>         |
| <b>TOTAL ASSETS</b>   | <b>\$ 43,995</b> | <b>\$ 42,709</b>     |

PACIFIC GAS AND ELECTRIC COMPANY  
CONDENSED CONSOLIDATED BALANCE SHEETS

| (in millions, except share amounts)   | (Unaudited)      |                      |
|---|------------------|----------------------|
|   | Balance At       |                      |
|   | June 30,<br>2010 | December 31,<br>2009 |
| <b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>   |                  |                      |
| <b>Current Liabilities</b>  |                  |                      |
| Short-term borrowings   | \$ 1,027         | \$ 833               |
| Long-term debt, classified as current   | 595              | 95                   |
| Energy recovery bonds, classified as current  | 395              | 386                  |
| Accounts payable:   |                  |                      |
| Trade creditors   | 920              | 984                  |
| Disputed claims and customer refunds  | 746              | 773                  |
| Regulatory balancing accounts   | 437              | 281                  |
| Other   | 367              | 363                  |
| Interest payable  | 834              | 813                  |
| Income tax payable  | 662              | 223                  |
| Deferred income taxes   | 409              | 334                  |
| Other   | 1,032            | 1,307                |
| <b>Total current liabilities</b>  | <b>7,424</b>     | <b>6,392</b>         |
| <b>Noncurrent Liabilities</b>   |                  |                      |
| Long-term debt  | 9,831            | 10,033               |
| Energy recovery bonds   | 636              | 827                  |
| Regulatory liabilities  | 4,275            | 4,125                |
| Pension and other postretirement benefits   | 1,960            | 1,717                |
| Asset retirement obligations  | 1,600            | 1,593                |
| Deferred income taxes   | 4,688            | 4,764                |
| Other   | 2,099            | 2,073                |
| <b>Total noncurrent liabilities</b>   | <b>25,089</b>    | <b>25,132</b>        |
| <b>Commitments and Contingencies</b>  |                  |                      |
| <b>Shareholders' Equity</b>   |                  |                      |
| Preferred stock without mandatory redemption provisions:  |                  |                      |
| Nonredeemable, 5.00% to 6.00%, 5,784,825 shares outstanding at June 30, 2010 and December 31, 2009                                | 145              | 145                  |
| Redeemable, 4.36% to 5.00%, 4,534,958 shares outstanding at June 30, 2010 and December 31, 2009                                   | 113              | 113                  |
| Common stock, \$5 par value, authorized 800,000,000 shares, 264,374,809 shares outstanding at June 30, 2010 and December 31, 2009 | 1,322            | 1,322                |
| Additional paid-in capital  | 3,186            | 3,055                |
| Reinvested earnings   | 6,942            | 6,704                |
| Accumulated other comprehensive loss  | (226)            | (154)                |
| <b>Total shareholders' equity</b>   | <b>11,482</b>    | <b>11,185</b>        |
| <b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>   | <b>\$ 43,995</b> | <b>\$ 42,709</b>     |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

RESIDENTIAL RATES

| LINE NO. |                                     | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|-------------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-1                        |                     |                     | 1        |
| 2        | MINIMUM BILL (\$/MONTH)             | \$4.50              | \$4.50              | 2        |
| 3        | ES UNIT DISCOUNT (\$/UNIT/MONTH)    | \$3.22              | \$3.22              | 3        |
| 4        | ET UNIT DISCOUNT (\$/UNIT/MONTH)    | \$11.54             | \$11.54             | 4        |
| 5        | ES/ET MINIMUM RATE LIMITER (\$/KWH) | \$0.04892           | \$0.04892           | 5        |
| 6        | ENERGY (\$/KWH)                     |                     |                     | 6        |
| 7        | TIER 1                              | \$0.11877           | \$0.11877           | 7        |
| 8        | TIER 2                              | \$0.13502           | \$0.13502           | 8        |
| 9        | TIER 3                              | \$0.29062           | \$0.29062           | 9        |
| 10       | TIER 4                              | \$0.40029           | \$0.40029           | 10       |
| 11       | TIER 5                              | \$0.40029           | \$0.40029           | 11       |
| 12       | SCHEDULE EL-1 (CARE)                |                     |                     | 12       |
| 13       | MINIMUM BILL (\$/MONTH)             | \$3.60              | \$3.60              | 13       |
| 14       | ENERGY (\$/KWH)                     |                     |                     | 14       |
| 15       | TIER 1                              | \$0.08316           | \$0.08316           | 15       |
| 16       | TIER 2                              | \$0.09563           | \$0.09563           | 16       |
| 17       | TIER 3                              | \$0.09563           | \$0.09563           | 17       |
| 18       | TIER 4                              | \$0.09563           | \$0.09563           | 18       |
| 19       | TIER 5                              | \$0.09563           | \$0.09563           | 19       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

RESIDENTIAL RATES

| LINE NO. |                             | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|-----------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-6                |                     |                     | 1        |
| 2        | MINIMUM BILL (\$/MONTH)     | \$4.50              | \$4.50              | 2        |
| 3        | E-6 METER CHARGE (\$/MONTH) | \$7.70              | \$7.70              | 3        |
| 4        | ON-PEAK ENERGY (\$/KWH)     |                     |                     | 4        |
| 5        | TIER 1                      | \$0.30142           |                     | 5        |
| 6        | TIER 2                      | \$0.31765           |                     | 6        |
| 7        | TIER 3                      | \$0.47307           |                     | 7        |
| 8        | TIER 4                      | \$0.58292           |                     | 8        |
| 9        | TIER 5                      | \$0.58292           |                     | 9        |
| 10       | PART-PEAK ENERGY (\$/KWH)   |                     |                     | 10       |
| 11       | TIER 1                      | \$0.14865           | \$0.10319           | 11       |
| 12       | TIER 2                      | \$0.16488           | \$0.11942           | 12       |
| 13       | TIER 3                      | \$0.32030           | \$0.27484           | 13       |
| 14       | TIER 4                      | \$0.43015           | \$0.38469           | 14       |
| 15       | TIER 5                      | \$0.43015           | \$0.38469           | 15       |
| 16       | OFF-PEAK ENERGY (\$/KWH)    |                     |                     | 16       |
| 17       | TIER 1                      | \$0.08700           | \$0.09112           | 17       |
| 18       | TIER 2                      | \$0.10324           | \$0.10736           | 18       |
| 19       | TIER 3                      | \$0.25866           | \$0.26278           | 19       |
| 20       | TIER 4                      | \$0.36851           | \$0.37263           | 20       |
| 21       | TIER 5                      | \$0.36851           | \$0.37263           | 21       |
| 22       | SCHEDULE EL-6               |                     |                     | 22       |
| 23       | MINIMUM BILL (\$/MONTH)     | \$3.60              | \$3.60              | 23       |
| 24       | EL-6 METER CHARGE(\$/MONTH) | \$6.16              | \$6.16              | 24       |
| 25       | ON-PEAK ENERGY (\$/KWH)     |                     |                     | 25       |
| 26       | TIER 1                      | \$0.20776           |                     | 26       |
| 27       | TIER 2                      | \$0.22023           |                     | 27       |
| 28       | TIER 3                      | \$0.22023           |                     | 28       |
| 29       | TIER 4                      | \$0.22023           |                     | 29       |
| 30       | TIER 5                      | \$0.22023           |                     | 30       |
| 31       | PART-PEAK ENERGY (\$/KWH)   |                     |                     | 31       |
| 32       | TIER 1                      | \$0.10223           | \$0.07082           | 32       |
| 33       | TIER 2                      | \$0.11470           | \$0.08329           | 33       |
| 34       | TIER 3                      | \$0.11470           | \$0.08329           | 34       |
| 35       | TIER 4                      | \$0.11470           | \$0.08329           | 35       |
| 36       | TIER 5                      | \$0.11470           | \$0.08329           | 36       |
| 37       | OFF-PEAK ENERGY (\$/KWH)    |                     |                     | 37       |
| 38       | TIER 1                      | \$0.05964           | \$0.06249           | 38       |
| 39       | TIER 2                      | \$0.07211           | \$0.07496           | 39       |
| 40       | TIER 3                      | \$0.07211           | \$0.07496           | 40       |
| 41       | TIER 4                      | \$0.07211           | \$0.07496           | 41       |
| 42       | TIER 5                      | \$0.07211           | \$0.07496           | 42       |

PACIFIC GAS AND ELECTRIC COMPANY  
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RESIDENTIAL RATES

| LINE NO. |                                | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-7                   |                     |                     | 1        |
| 2        | MINIMUM BILL (\$/MONTH)        | \$4.50              | \$4.50              | 2        |
| 3        | E-7 METER CHARGE (\$/MONTH)    | \$3.51              | \$3.51              | 3        |
| 4        | RATE W METER CHARGE (\$/MONTH) | \$1.17              | \$1.17              | 4        |
| 5        | ON-PEAK ENERGY (\$/KWH)        |                     |                     | 5        |
| 6        | TIER 1                         | \$0.30631           | \$0.11936           | 6        |
| 7        | TIER 2                         | \$0.30631           | \$0.11936           | 7        |
| 8        | TIER 3                         | \$0.46218           | \$0.27523           | 8        |
| 9        | TIER 4                         | \$0.57158           | \$0.38463           | 9        |
| 10       | TIER 5                         | \$0.57158           | \$0.38463           | 10       |
| 11       | OFF-PEAK ENERGY (\$/KWH)       |                     |                     | 11       |
| 12       | TIER 1                         | \$0.09003           | \$0.09318           | 12       |
| 13       | TIER 2                         | \$0.09003           | \$0.09318           | 13       |
| 14       | TIER 3                         | \$0.24590           | \$0.24905           | 14       |
| 15       | TIER 4                         | \$0.35530           | \$0.35845           | 15       |
| 16       | TIER 5                         | \$0.35530           | \$0.35845           | 16       |
| 17       | BASELINE DISCOUNT (\$/KWH)     | \$0.01679           | \$0.01679           | 17       |
| 18       | SCHEDULE EL-7                  |                     |                     | 18       |
| 19       | MINIMUM BILL (\$/MONTH)        | \$4.50              | \$4.50              | 19       |
| 20       | EL-7 METER CHARGE(\$/MONTH)    | \$0.00              | \$0.00              | 20       |
| 21       | ENERGY (\$/KWH)                |                     |                     | 21       |
| 22       | ON-PEAK                        | \$0.28372           | \$0.10472           | 22       |
| 23       | OFF-PEAK                       | \$0.07664           | \$0.07966           | 23       |
| 24       | BASELINE DISCOUNT (\$/KWH)     | \$0.01559           | \$0.01559           | 24       |
| 25       | SCHEDULE E-8                   |                     |                     | 25       |
| 26       | CUSTOMER CHARGE (\$/MONTH)     | \$12.53             | \$12.53             | 26       |
| 27       | ENERGY (\$/KWH)                |                     |                     | 27       |
| 28       | TIER 1                         | \$0.12270           | \$0.07856           | 28       |
| 29       | TIER 2                         | \$0.12270           | \$0.07856           | 29       |
| 30       | TIER 3                         | \$0.27817           | \$0.23403           | 30       |
| 31       | TIER 4                         | \$0.38797           | \$0.34383           | 31       |
| 32       | TIER 5                         | \$0.38797           | \$0.34383           | 32       |
| 33       | SCHEDULE EL-8 (CARE)           |                     |                     | 33       |
| 34       | CUSTOMER CHARGE (\$/MONTH)     | \$10.02             | \$10.02             | 34       |
| 35       | ENERGY CHARGE (\$/KWH)         | \$0.08624           | \$0.05234           | 35       |

PACIFIC GAS AND ELECTRIC COMPANY  
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RESIDENTIAL RATES

| LINE NO. |                                | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-A7                  |                     |                     | 1        |
| 2        | MINIMUM BILL (\$/MONTH)        | \$4.50              | \$4.50              | 2        |
| 3        | E-A7 METER CHARGE (\$/MONTH)   | \$3.51              | \$3.51              | 3        |
| 4        | RATE Y METER CHARGE (\$/MONTH) | \$1.17              | \$1.17              | 4        |
| 5        | ON-PEAK ENERGY (\$/KWH)        |                     |                     | 5        |
| 6        | TIER 1                         | \$0.33648           | \$0.11853           | 6        |
| 7        | TIER 2                         | \$0.33648           | \$0.11853           | 7        |
| 8        | TIER 3                         | \$0.49235           | \$0.27440           | 8        |
| 9        | TIER 4                         | \$0.60175           | \$0.38380           | 9        |
| 10       | TIER 5                         | \$0.60175           | \$0.38380           | 10       |
| 11       | OFF-PEAK ENERGY (\$/KWH)       |                     |                     | 11       |
| 12       | TIER 1                         | \$0.08569           | \$0.09327           | 12       |
| 13       | TIER 2                         | \$0.08569           | \$0.09327           | 13       |
| 14       | TIER 3                         | \$0.24156           | \$0.24914           | 14       |
| 15       | TIER 4                         | \$0.35096           | \$0.35854           | 15       |
| 16       | TIER 5                         | \$0.35096           | \$0.35854           | 16       |
| 17       | BASELINE DISCOUNT (\$/KWH)     | \$0.33648           | \$0.33648           | 17       |
| 18       | SCHEDULE EL-A7                 |                     |                     | 18       |
| 19       | MINIMUM BILL (\$/MONTH)        | \$4.50              | \$4.50              | 19       |
| 20       | EL-A7 METER CHARGE(\$/MONTH)   | \$0.00              | \$0.00              | 20       |
| 21       | ON-PEAK ENERGY (\$/KWH)        | \$0.31260           | \$0.10393           | 21       |
| 22       | OFF-PEAK ENERGY (\$/KWH)       | \$0.07248           | \$0.07974           | 22       |
| 23       | BASELINE DISCOUNT (\$/KWH)     | \$0.01559           | \$0.01559           | 23       |
| 24       | SCHEDULE E-9: RATE A           |                     |                     | 24       |
| 25       | MINIMUM BILL (\$/MONTH)        | \$4.50              | \$4.50              | 25       |
| 26       | E-9 METER CHARGE (\$/MONTH)    | \$6.66              | \$6.66              | 26       |
| 27       | ON-PEAK ENERGY (\$/KWH)        |                     |                     | 27       |
| 28       | TIER 1                         | \$0.29583           |                     | 28       |
| 29       | TIER 2                         | \$0.29583           |                     | 29       |
| 30       | TIER 3                         | \$0.45169           |                     | 30       |
| 31       | TIER 4                         | \$0.56110           |                     | 31       |
| 32       | TIER 5                         | \$0.56110           |                     | 32       |
| 33       | PART-PEAK ENERGY (\$/KWH)      |                     |                     | 33       |
| 34       | TIER 1                         | \$0.10811           | \$0.10799           | 34       |
| 35       | TIER 2                         | \$0.10811           | \$0.10799           | 35       |
| 36       | TIER 3                         | \$0.26397           | \$0.26385           | 36       |
| 37       | TIER 4                         | \$0.37338           | \$0.37326           | 37       |
| 38       | TIER 5                         | \$0.37338           | \$0.37326           | 38       |
| 39       | OFF-PEAK ENERGY (\$/KWH)       |                     |                     | 39       |
| 40       | TIER 1                         | \$0.05140           | \$0.06006           | 40       |
| 41       | TIER 2                         | \$0.05140           | \$0.06006           | 41       |
| 42       | TIER 3                         | \$0.14698           | \$0.14698           | 42       |
| 43       | TIER 4                         | \$0.18727           | \$0.18727           | 43       |
| 44       | TIER 5                         | \$0.18727           | \$0.18727           | 44       |
| 45       | BASELINE DISCOUNT (\$/KWH)     | \$0.01679           | \$0.01679           | 45       |

PACIFIC GAS AND ELECTRIC COMPANY  
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RESIDENTIAL RATES

| LINE NO. |                             | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|-----------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-9: RATE B        |                     |                     | 1        |
| 2        | MINIMUM BILL (\$/MONTH)     | \$4.50              | \$4.50              | 2        |
| 3        | E-9 METER CHARGE (\$/MONTH) | \$6.66              | \$6.66              | 3        |
| 4        | ON-PEAK ENERGY (\$/KWH)     |                     |                     | 4        |
| 5        | TIER 1                      | \$0.29164           |                     | 5        |
| 6        | TIER 2                      | \$0.29164           |                     | 6        |
| 7        | TIER 3                      | \$0.44750           |                     | 7        |
| 8        | TIER 4                      | \$0.55691           |                     | 8        |
| 9        | TIER 5                      | \$0.55691           |                     | 9        |
| 10       | PART-PEAK ENERGY (\$/KWH)   |                     |                     | 10       |
| 11       | TIER 1                      | \$0.10392           | \$0.10427           | 11       |
| 12       | TIER 2                      | \$0.10392           | \$0.10427           | 12       |
| 13       | TIER 3                      | \$0.25978           | \$0.26013           | 13       |
| 14       | TIER 4                      | \$0.36919           | \$0.36954           | 14       |
| 15       | TIER 5                      | \$0.36919           | \$0.36954           | 15       |
| 16       | OFF-PEAK ENERGY (\$/KWH)    |                     |                     | 16       |
| 17       | TIER 1                      | \$0.05820           | \$0.06616           | 17       |
| 18       | TIER 2                      | \$0.05820           | \$0.06616           | 18       |
| 19       | TIER 3                      | \$0.21406           | \$0.22202           | 19       |
| 20       | TIER 4                      | \$0.32347           | \$0.33143           | 20       |
| 21       | TIER 5                      | \$0.32347           | \$0.33143           | 21       |
| 22       | BASELINE DISCOUNT (\$/KWH)  | \$0.01679           | \$0.01679           | 22       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

SMALL L&P RATES

| LINE NO. |  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--|---------------------|---------------------|----------|
| 1        | SCHEDULE A-1                           |                     |                     | 1        |
| 2        | CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.) | \$9.00              | \$9.00              | 2        |
| 3        | CUSTOMER CHARGE: POLYPHASE (\$/MO.)    | \$13.50             | \$13.50             | 3        |
| 4        | ENERGY (\$/KWH)                        | \$0.19937           | \$0.14373           | 4        |
| *****    |  |                     |                     |          |
| 5        | SCHEDULE A-1 TOU                       |                     |                     | 5        |
| 6        | CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.) | \$9.00              | \$9.00              | 6        |
| 7        | CUSTOMER CHARGE: POLYPHASE (\$/MO.)    | \$13.50             | \$13.50             | 7        |
| 8        | ENERGY (\$/KWH)                        |                     |                     | 8        |
| 9        | ON-PEAK                                | \$0.22456           |                     | 9        |
| 10       | PART-PEAK                              | \$0.19869           | \$0.14910           | 10       |
| 11       | OFF-PEAK ENERGY                        | \$0.18326           | \$0.13805           | 11       |
| *****    |  |                     |                     |          |
| 12       | SCHEDULE A-6                           |                     |                     | 12       |
| 13       | CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.) | \$9.00              | \$9.00              | 13       |
| 14       | CUSTOMER CHARGE: POLYPHASE (\$/MO.)    | \$13.50             | \$13.50             | 14       |
| 15       | METER CHARGE (\$/MONTH)                | \$6.12              | \$6.12              | 15       |
| 16       | METER CHARGE - RATE W (\$/MONTH)       | \$1.80              | \$1.80              | 16       |
| 17       | METER CHARGE - RATE X (\$/MONTH)       | \$6.12              | \$6.12              | 17       |
| 18       | ENERGY (\$/KWH)                        |                     |                     | 18       |
| 19       | ON-PEAK                                | \$0.45331           |                     | 19       |
| 20       | PART-PEAK                              | \$0.20061           | \$0.16567           | 20       |
| 21       | OFF-PEAK ENERGY                        | \$0.11691           | \$0.12084           | 21       |
| *****    |  |                     |                     |          |
| 22       | SCHEDULE A-15                          |                     |                     | 22       |
| 23       | CUSTOMER CHARGE (\$/MONTH)             | \$9.00              | \$9.00              | 23       |
| 24       | FACILITY CHARGE (\$/MONTH)             | \$20.00             | \$20.00             | 24       |
| 25       | ENERGY (\$/KWH)                        | \$0.19937           | \$0.14373           | 25       |
| *****    |  |                     |                     |          |
| 26       | SCHEDULE TC-1                          |                     |                     | 26       |
| 27       | CUSTOMER CHARGE (\$/MONTH)             | \$9.00              | \$9.00              | 27       |
| 28       | ENERGY (\$/KWH)                        | \$0.13541           | \$0.13541           | 28       |
| *****    |  |                     |                     |          |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
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MEDIUM L&P RATES

| LINE NO. |                                  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|----------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE A-10                    |                     |                     | 1        |
| 2        | CUSTOMER CHARGE (\$/MONTH)       | \$120.00            | \$120.00            | 2        |
| 3        | MAXIMUM DEMAND CHARGE (\$/KW/MO) |                     |                     | 3        |
| 4        | SECONDARY VOLTAGE                | \$10.88             | \$6.52              | 4        |
| 5        | PRIMARY VOLTAGE                  | \$10.27             | \$6.01              | 5        |
| 6        | TRANSMISSION VOLTAGE             | \$7.89              | \$4.15              | 6        |
| 7        | ENERGY CHARGE (\$/KWH)           |                     |                     | 7        |
| 8        | SECONDARY VOLTAGE                | \$0.14001           | \$0.10652           | 8        |
| 9        | PRIMARY VOLTAGE                  | \$0.13325           | \$0.10132           | 9        |
| 10       | TRANSMISSION VOLTAGE             | \$0.11682           | \$0.09017           | 10       |
| 11       | SCHEDULE A-10 TOU                |                     |                     | 11       |
| 12       | CUSTOMER CHARGE (\$/MONTH)       | \$120.00            | \$120.00            | 12       |
| 13       | MAXIMUM DEMAND CHARGE (\$/KW/MO) |                     |                     | 13       |
| 14       | SECONDARY VOLTAGE                | \$10.88             | \$6.52              | 14       |
| 15       | PRIMARY VOLTAGE                  | \$10.27             | \$6.01              | 15       |
| 16       | TRANSMISSION VOLTAGE             | \$7.89              | \$4.15              | 16       |
| 17       | ENERGY CHARGE (\$/KWH)           |                     |                     | 17       |
| 18       | SECONDARY                        |                     |                     | 18       |
| 19       | ON PEAK                          | \$0.16289           |                     | 19       |
| 20       | PARTIAL PEAK                     | \$0.14031           | \$0.11195           | 20       |
| 21       | OFF-PEAK                         | \$0.12687           | \$0.10116           | 21       |
| 22       | PRIMARY                          |                     |                     | 22       |
| 23       | ON PEAK                          | \$0.15391           |                     | 23       |
| 24       | PARTIAL PEAK                     | \$0.13380           | \$0.10563           | 24       |
| 25       | OFF-PEAK                         | \$0.12133           | \$0.09716           | 25       |
| 26       | TRANSMISSION                     |                     |                     | 26       |
| 27       | ON PEAK                          | \$0.13655           |                     | 27       |
| 28       | PARTIAL PEAK                     | \$0.11714           | \$0.09424           | 28       |
| 29       | OFF-PEAK                         | \$0.10557           | \$0.08625           | 29       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

E-19 FIRM RATES

| LINE NO. |   | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|---|---------------------|---------------------|----------|
| *****    |   |                     |                     |          |
| 1        | SCHEDULE E-19 T FIRM                      |                     |                     | 1        |
| 2        | CUSTOMER CHARGE > 500 KW (\$/MONTH)       | \$1,200.00          | \$1,200.00          | 2        |
| 3        | CUSTOMER CHARGE < 500 KW (\$/MONTH)       | \$120.00            | \$120.00            | 3        |
| 4        | TOU METER CHARGE - RATES V & X (\$/MONTH) | \$5.40              | \$5.40              | 4        |
| 5        | TOU METER CHARGE - RATE W (\$/MONTH)      | \$1.08              | \$1.08              | 5        |
| 6        | DEMAND CHARGE (\$/KW/MONTH)               |                     |                     | 6        |
| 7        | ON-PEAK                                   | \$9.16              |                     | 7        |
| 8        | PARTIAL PEAK                              | \$2.07              | \$0.00              | 8        |
| 9        | MAXIMUM                                   | \$5.42              | \$5.42              | 9        |
| 10       | ENERGY CHARGE (\$/KWH)                    |                     |                     | 10       |
| 11       | ON-PEAK                                   | \$0.11306           |                     | 11       |
| 12       | PARTIAL-PEAK                              | \$0.09101           | \$0.08301           | 12       |
| 13       | OFF-PEAK                                  | \$0.07783           | \$0.07391           | 13       |
| *****    |   |                     |                     |          |
| 14       | SCHEDULE E-19 P FIRM                      |                     |                     | 14       |
| 15       | CUSTOMER CHARGE > 500 KW (\$/MONTH)       | \$600.00            | \$600.00            | 15       |
| 16       | CUSTOMER CHARGE < 500 KW (\$/MONTH)       | \$120.00            | \$120.00            | 16       |
| 17       | TOU METER CHARGE - RATES V & X (\$/MONTH) | \$5.40              | \$5.40              | 17       |
| 18       | TOU METER CHARGE - RATE W (\$/MONTH)      | \$1.08              | \$1.08              | 18       |
| 24       | DEMAND CHARGE (\$/KW/MONTH)               |                     |                     | 24       |
| 25       | ON-PEAK                                   | \$11.80             |                     | 25       |
| 26       | PARTIAL PEAK                              | \$2.70              | \$0.84              | 26       |
| 27       | MAXIMUM                                   | \$7.47              | \$7.47              | 27       |
| 28       | ENERGY CHARGE (\$/KWH)                    |                     |                     | 28       |
| 29       | ON-PEAK                                   | \$0.15217           |                     | 29       |
| 30       | PARTIAL-PEAK                              | \$0.10319           | \$0.08898           | 30       |
| 31       | OFF-PEAK                                  | \$0.08205           | \$0.07823           | 31       |
| 32       | AVERAGE RATE LIMIT (\$/KWH)               | \$0.24145           |                     | 32       |
| *****    |   |                     |                     |          |

**PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
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E-19 FIRM RATES

| LINE NO. |   | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|---|---------------------|---------------------|----------|
| 1        | SCHEDULE E-19 S FIRM                      |                     |                     | 1        |
| 2        | CUSTOMER CHARGE > 500 KW (\$/MONTH)       | \$412.50            | \$412.50            | 2        |
| 3        | CUSTOMER CHARGE < 500 KW (\$/MONTH)       | \$120.00            | \$120.00            | 3        |
| 4        | TOU METER CHARGE - RATES V & X (\$/MONTH) | \$5.40              | \$5.40              | 4        |
| 5        | TOU METER CHARGE - RATE W (\$/MONTH)      | \$1.08              | \$1.08              | 5        |
| 6        | DEMAND CHARGE (\$/KW/MONTH)               |                     |                     | 6        |
| 7        | ON-PEAK                                   | \$13.05             |                     | 7        |
| 8        | PARTIAL PEAK                              | \$2.99              | \$1.12              | 8        |
| 9        | MAXIMUM                                   | \$8.58              | \$8.58              | 9        |
| 10       | ENERGY CHARGE (\$/KWH)                    |                     |                     | 10       |
| 11       | ON-PEAK                                   | \$0.15257           |                     | 11       |
| 12       | PARTIAL-PEAK                              | \$0.10525           | \$0.09397           | 12       |
| 13       | OFF-PEAK                                  | \$0.08591           | \$0.08304           | 13       |
| 14       | AVERAGE RATE LIMIT (\$/KWH)               | \$0.24145           |                     | 14       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
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E-20 FIRM RATES

| LINE NO. |                                 | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|---------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-20 T FIRM            |                     |                     | 1        |
| 2        | CUSTOMER CHARGE (\$/MONTH)-FIRM | \$1,096.96          | \$1,096.96          | 2        |
| 3        | DEMAND CHARGE (\$/KW/MONTH)     |                     |                     | 3        |
| 4        | ON-PEAK                         | \$11.12             |                     | 4        |
| 5        | PARTIAL PEAK                    | \$2.49              | \$0.00              | 5        |
| 6        | MAXIMUM                         | \$3.97              | \$3.97              | 6        |
| 7        | ENERGY CHARGE (\$/KWH)          |                     |                     | 7        |
| 8        | ON-PEAK                         | \$0.10577           |                     | 8        |
| 9        | PARTIAL-PEAK                    | \$0.08529           | \$0.07787           | 9        |
| 10       | OFF-PEAK                        | \$0.07307           | \$0.06944           | 10       |
| .....    |                                 |                     |                     |          |
| 11       | SCHEDULE E-20 P FIRM            |                     |                     | 11       |
| 12       | CUSTOMER CHARGE (\$/MONTH)      | \$1,000.00          | \$1,000.00          | 12       |
| 13       | DEMAND CHARGE (\$/KW/MONTH)     |                     |                     | 13       |
| 14       | ON-PEAK                         | \$12.02             |                     | 14       |
| 15       | PARTIAL PEAK                    | \$2.78              | \$0.72              | 15       |
| 16       | MAXIMUM                         | \$7.12              | \$7.12              | 16       |
| 17       | ENERGY CHARGE (\$/KWH)          |                     |                     | 17       |
| 18       | ON-PEAK                         | \$0.14958           |                     | 18       |
| 19       | PARTIAL-PEAK                    | \$0.10197           | \$0.08794           | 19       |
| 20       | OFF-PEAK                        | \$0.08140           | \$0.07753           | 20       |
| 21       | AVERAGE RATE LIMIT (\$/KWH)     | \$0.23432           |                     | 21       |
| .....    |                                 |                     |                     |          |
| 22       | SCHEDULE E-20 S FIRM            |                     |                     | 22       |
| 23       | CUSTOMER CHARGE (\$/MONTH)      | \$750.00            | \$750.00            | 23       |
| 24       | DEMAND CHARGE (\$/KW/MONTH)     |                     |                     | 24       |
| 25       | ON-PEAK                         | \$12.67             |                     | 25       |
| 26       | PARTIAL PEAK                    | \$2.81              | \$1.12              | 26       |
| 27       | MAXIMUM                         | \$8.56              | \$8.56              | 27       |
| 28       | ENERGY CHARGE (\$/KWH)          |                     |                     | 28       |
| 29       | ON-PEAK                         | \$0.14606           |                     | 29       |
| 30       | PARTIAL-PEAK                    | \$0.10168           | \$0.09113           | 30       |
| 31       | OFF-PEAK                        | \$0.08339           | \$0.08067           | 31       |
| 32       | AVERAGE RATE LIMIT (\$/KWH)     | \$0.23432           |                     | 32       |
| .....    |                                 |                     |                     |          |

**PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010**

OIL AND GAS EXTRACTION RATES

| LINE NO. |                                      | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--------------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE E-37                        |                     |                     | 1        |
| 2        | CUSTOMER CHARGE (\$/MONTH)           | \$30.00             | \$30.00             | 2        |
| 3        | TOU METER CHARGE - RATE W (\$/MONTH) | \$1.20              | \$1.20              | 3        |
| 4        | TOU METER CHARGE - RATE X (\$/MONTH) | \$6.00              | \$6.00              | 4        |
| 5        | ON PEAK DEMAND CHARGE (\$/KW/MO)     | \$7.53              |                     | 5        |
| 6        | MAXIMUM DEMAND CHARGE (\$/KW/MO)     |                     |                     | 6        |
| 7        | SECONDARY VOLTAGE                    | \$10.87             | \$3.85              | 7        |
| 8        | PRIMARY VOLTAGE DISCOUNT             | \$1.39              | \$0.13              | 8        |
| 9        | TRANSMISSION VOLTAGE DISCOUNT        | \$7.96              | \$3.32              | 9        |
| 10       | ENERGY (\$/KWH)                      |                     |                     | 10       |
| 11       | ON-PEAK                              | \$0.17271           |                     | 11       |
| 12       | PART-PEAK                            |                     | \$0.08791           | 12       |
| 13       | OFF-PEAK                             | \$0.06992           | \$0.06248           | 13       |

**PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010**

STANDBY RATES

| LINE NO. |  | 6/1/10<br>RATES<br>SUMMER | 6/1/10<br>RATES<br>WINTER | LINE NO. |
|----------|--|---------------------------|---------------------------|----------|
| 1        | SCHEDULE S - TRANSMISSION                |                           |                           | 1        |
| 2        | CONTRACT CAPACITY CHARGE (\$/KW/MO.)     | \$0.91                    | \$0.91                    | 2        |
| 3        | EFFECTIVE RESERVATION CHARGE (\$/KW/MO.) | \$0.77                    | \$0.77                    | 3        |
| 4        | ENERGY (\$/KWH)                          |                           |                           | 4        |
| 5        | ON-PEAK                                  | \$0.11192                 |                           | 5        |
| 6        | PART-PEAK                                | \$0.09545                 | \$0.08950                 | 6        |
| 7        | OFF-PEAK                                 | \$0.08564                 | \$0.08270                 | 7        |
| 8        | SCHEDULE S - PRIMARY                     |                           |                           | 8        |
| 9        | CONTRACT CAPACITY CHARGE (\$/KW/MO.)     | \$2.62                    | \$2.62                    | 9        |
| 10       | EFFECTIVE RESERVATION CHARGE (\$/KW/MO.) | \$2.23                    | \$2.23                    | 10       |
| 11       | ENERGY (\$/KWH)                          |                           |                           | 11       |
| 12       | ON-PEAK                                  | \$0.29085                 |                           | 12       |
| 13       | PART-PEAK                                | \$0.17794                 | \$0.15601                 | 13       |
| 14       | OFF-PEAK                                 | \$0.13433                 | \$0.13149                 | 14       |
| 15       | SCHEDULE S - SECONDARY                   |                           |                           | 15       |
| 16       | CONTRACT CAPACITY CHARGE (\$/KW/MO.)     | \$2.63                    | \$2.63                    | 16       |
| 17       | EFFECTIVE RESERVATION CHARGE (\$/KW/MO.) | \$2.24                    | \$2.24                    | 17       |
| 18       | ENERGY (\$/KWH)                          |                           |                           | 18       |
| 19       | ON-PEAK                                  | \$0.29228                 |                           | 19       |
| 20       | PART-PEAK                                | \$0.17747                 | \$0.15702                 | 20       |
| 21       | OFF-PEAK                                 | \$0.13325                 | \$0.13040                 | 21       |

**PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010**

STANDBY RATES

| LINE NO. |   | 6/1/10<br>RATES<br>SUMMER | 6/1/10<br>RATES<br>WINTER | LINE NO. |
|----------|---|---------------------------|---------------------------|----------|
| 1        | SCHEDULE S CUSTOMER AND METER CHARGES               |                           |                           | 1        |
| 2        | RESIDENTIAL   |                           |                           | 2        |
| 3        | MINIMUM BILL (\$/MO)                                | \$5.00                    | \$5.00                    | 3        |
| 4        | TOU METER CHARGE (\$/MO)                            | \$3.90                    | \$3.90                    | 4        |
| 5        | AGRICULTURAL  |                           |                           | 5        |
| 6        | CUSTOMER CHARGE (\$/MO)                             | \$16.00                   | \$16.00                   | 6        |
| 7        | TOU METER CHARGE (\$/MO)                            | \$6.00                    | \$6.00                    | 7        |
| 8        | SMALL LIGHT AND POWER (less than or equal to 50 kW) |                           |                           | 8        |
| 9        | SINGLE PHASE CUSTOMER CHARGE (\$/MO)                | \$9.00                    | \$9.00                    | 9        |
| 10       | POLY PHASE CUSTOMER CHARGE (\$/MO)                  | \$13.50                   | \$13.50                   | 10       |
| 11       | METER CHARGE (\$/MO)                                | \$6.12                    | \$6.12                    | 11       |
| 12       | MEDIUM LIGHT AND POWER (>50 kW, <500 kW)            |                           |                           | 12       |
| 13       | CUSTOMER CHARGE (\$/MO)                             | \$120.00                  | \$120.00                  | 13       |
| 14       | METER CHARGE (\$/MO)                                | \$5.40                    | \$5.40                    | 14       |
| 15       | MEDIUM LIGHT AND POWER (>500kW)                     |                           |                           | 15       |
| 16       | TRANSMISSION CUSTOMER CHARGE (\$/MO)                | \$1,200.00                | \$1,200.00                | 16       |
| 17       | PRIMARY CUSTOMER CHARGE (\$/MO)                     | \$600.00                  | \$600.00                  | 17       |
| 18       | SECONDARY CUSTOMER CHARGE (\$/MO)                   | \$412.50                  | \$412.50                  | 18       |
| 19       | LARGE LIGHT AND POWER (> 1000 kW)                   |                           |                           | 19       |
| 20       | TRANSMISSION CUSTOMER CHARGE (\$/MO)                | \$1,096.96                | \$1,096.96                | 20       |
| 21       | PRIMARY CUSTOMER CHARGE (\$/MO)                     | \$1,000.00                | \$1,000.00                | 21       |
| 22       | SECONDARY CUSTOMER CHARGE (\$/MO)                   | \$750.00                  | \$750.00                  | 22       |
| 23       | REDUCED CUSTOMER CHARGES (\$/MO)                    |                           |                           | 23       |
| 24       | A-6   | \$11.90                   | \$11.90                   | 24       |
| 25       | E19 V   | \$57.32                   | \$57.32                   | 25       |
| 26       | E-19 PRIMARY and SECONDARY                          | \$851.00                  | \$851.00                  | 26       |

**PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010**

AGRICULTURAL RATES

| LINE NO. |  | 6/1/10<br>RATES<br>SUMMER | 6/1/10<br>RATES<br>WINTER | LINE NO. |
|----------|--|---------------------------|---------------------------|----------|
| 1        | SCHEDULE AG-1A                           |                           |                           | 1        |
| 2        | CUSTOMER CHARGE (\$/MONTH)               | \$14.40                   | \$14.40                   | 2        |
| 3        | CONNECTED LOAD CHARGE (\$/KW/MONTH)      | \$5.26                    | \$0.95                    | 3        |
| 4        | ENERGY CHARGE (\$/KWH)                   | \$0.21190                 | \$0.16579                 | 4        |
| 5        | SCHEDULE AG-RA                           |                           |                           | 5        |
| 6        | CUSTOMER CHARGE - RATES A & D (\$/MONTH) | \$14.40                   | \$14.40                   | 6        |
| 7        | METER CHARGE - RATE A (\$/MONTH)         | \$6.80                    | \$6.80                    | 7        |
| 8        | METER CHARGE - RATE D (\$/MONTH)         | \$2.00                    | \$2.00                    | 8        |
| 9        | CONNECTED LOAD CHARGE (\$/KW/MONTH)      | \$4.73                    | \$0.72                    | 9        |
| 10       | ENERGY (\$/KWH)                          |                           |                           | 10       |
| 11       | ON-PEAK                                  | \$0.39145                 |                           | 11       |
| 12       | PART-PEAK                                |                           | \$0.13567                 | 12       |
| 13       | OFF-PEAK                                 | \$0.13171                 | \$0.11227                 | 13       |
| 14       | SCHEDULE AG-VA                           |                           |                           | 14       |
| 15       | CUSTOMER CHARGE - RATES A & D (\$/MONTH) | \$14.40                   | \$14.40                   | 15       |
| 16       | METER CHARGE - RATE A (\$/MONTH)         | \$6.80                    | \$6.80                    | 16       |
| 17       | METER CHARGE - RATE D (\$/MONTH)         | \$2.00                    | \$2.00                    | 17       |
| 18       | CONNECTED LOAD CHARGE (\$/KW/MONTH)      | \$4.76                    | \$0.75                    | 18       |
| 19       | ENERGY (\$/KWH)                          |                           |                           | 19       |
| 20       | ON-PEAK                                  | \$0.36383                 |                           | 20       |
| 21       | PART-PEAK                                |                           | \$0.13656                 | 21       |
| 22       | OFF-PEAK                                 | \$0.12932                 | \$0.11309                 | 22       |
| 23       | SCHEDULE AG-4A                           |                           |                           | 23       |
| 24       | CUSTOMER CHARGE - RATES A & D (\$/MONTH) | \$14.40                   | \$14.40                   | 24       |
| 25       | METER CHARGE - RATE A (\$/MONTH)         | \$6.80                    | \$6.80                    | 25       |
| 26       | METER CHARGE - RATE D (\$/MONTH)         | \$2.00                    | \$2.00                    | 26       |
| 27       | CONNECTED LOAD CHARGE (\$/KW/MONTH)      | \$4.73                    | \$0.66                    | 27       |
| 28       | ENERGY (\$/KWH)                          |                           |                           | 28       |
| 29       | ON-PEAK                                  | \$0.29108                 |                           | 29       |
| 30       | PART-PEAK                                |                           | \$0.13612                 | 30       |
| 31       | OFF-PEAK                                 | \$0.13111                 | \$0.11289                 | 31       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

AGRICULTURAL RATES

| LINE NO. |  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--|---------------------|---------------------|----------|
| 1        | SCHEDULE AG-5A                           |                     |                     | 1        |
| 2        | CUSTOMER CHARGE - RATES A & D (\$/MONTH) | \$14.40             | \$14.40             | 2        |
| 3        | METER CHARGE - RATE A (\$/MONTH)         | \$6.80              | \$6.80              | 3        |
| 4        | METER CHARGE - RATE D (\$/MONTH)         | \$2.00              | \$2.00              | 4        |
| 5        | CONNECTED LOAD CHARGE (\$/KW/MONTH)      | \$7.98              | \$1.32              | 5        |
| 6        | ENERGY (\$/KWH)                          |                     |                     | 6        |
| 7        | ON-PEAK                                  | \$0.22798           |                     | 7        |
| 8        | PART-PEAK                                |                     | \$0.12249           | 8        |
| 9        | OFF-PEAK                                 | \$0.11651           | \$0.10406           | 9        |
| 10       | SCHEDULE AG-1B                           |                     |                     | 10       |
| 11       | CUSTOMER CHARGE (\$/MONTH)               | \$19.20             | \$19.20             | 11       |
| 12       | MAXIMUM DEMAND CHARGE (\$/KW/MONTH)      |                     |                     | 12       |
| 13       | SECONDARY VOLTAGE                        | \$7.98              | \$1.53              | 13       |
| 14       | PRIMARY VOLTAGE DISCOUNT                 | \$0.95              | \$0.21              | 14       |
| 15       | ENERGY CHARGE (\$/KWH)                   | \$0.18358           | \$0.14351           | 15       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

AGRICULTURAL RATES

| LINE NO. |  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--|---------------------|---------------------|----------|
| 1        | SCHEDULE AG-RB                           |                     |                     | 1        |
| 2        | CUSTOMER CHARGE - RATES B & E (\$/MONTH) | \$19.20             | \$19.20             | 2        |
| 3        | METER CHARGE - RATE B (\$/MONTH)         | \$6.00              | \$6.00              | 3        |
| 4        | METER CHARGE - RATE E (\$/MONTH)         | \$1.20              | \$1.20              | 4        |
| 5        | ON-PEAK DEMAND CHARGE (\$/KW/MONTH)      | \$2.82              |                     | 5        |
| 6        | MAXIMUM DEMAND CHARGE (\$/KW/MONTH)      |                     |                     | 6        |
| 7        | SECONDARY VOLTAGE                        | \$6.60              | \$1.26              | 7        |
| 8        | PRIMARY VOLTAGE DISCOUNT                 | \$0.62              | \$0.20              | 8        |
| 9        | ENERGY CHARGE (\$/KWH)                   |                     |                     | 9        |
| 10       | ON-PEAK                                  | \$0.37661           |                     | 10       |
| 11       | PART-PEAK                                |                     | \$0.12228           | 11       |
| 12       | OFF-PEAK                                 | \$0.13070           | \$0.10289           | 12       |
| 13       | SCHEDULE AG-VB                           |                     |                     | 13       |
| 14       | CUSTOMER CHARGE - RATES B & E (\$/MONTH) | \$19.20             | \$19.20             | 14       |
| 15       | METER CHARGE - RATE B (\$/MONTH)         | \$6.00              | \$6.00              | 15       |
| 16       | METER CHARGE - RATE E (\$/MONTH)         | \$1.20              | \$1.20              | 16       |
| 17       | ON-PEAK DEMAND CHARGE (\$/KW/MONTH)      | \$2.83              |                     | 17       |
| 18       | MAXIMUM DEMAND CHARGE (\$/KW/MONTH)      |                     |                     | 18       |
| 19       | SECONDARY VOLTAGE                        | \$6.62              | \$1.24              | 19       |
| 20       | PRIMARY VOLTAGE DISCOUNT                 | \$0.67              | \$0.19              | 20       |
| 21       | ENERGY CHARGE (\$/KWH)                   |                     |                     | 21       |
| 22       | ON-PEAK                                  | \$0.34434           |                     | 22       |
| 23       | PART-PEAK                                |                     | \$0.12073           | 23       |
| 24       | OFF-PEAK                                 | \$0.12695           | \$0.10157           | 24       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

AGRICULTURAL RATES

| LINE NO. |  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--|---------------------|---------------------|----------|
| 1        | SCHEDULE AG-4B                           |                     |                     | 1        |
| 2        | CUSTOMER CHARGE - RATES B & E (\$/MONTH) | \$19.20             | \$19.20             | 2        |
| 3        | METER CHARGE - RATE B (\$/MONTH)         | \$6.00              | \$6.00              | 3        |
| 4        | METER CHARGE - RATE E (\$/MONTH)         | \$1.20              | \$1.20              | 4        |
| 5        | ON-PEAK DEMAND CHARGE (\$/KW/MONTH)      | \$3.72              |                     | 5        |
| 6        | MAXIMUM DEMAND CHARGE (\$/KW/MONTH)      |                     |                     | 6        |
| 7        | SECONDARY VOLTAGE                        | \$6.45              | \$1.36              | 7        |
| 8        | PRIMARY VOLTAGE DISCOUNT                 | \$0.77              | \$0.21              | 8        |
| 9        | ENERGY CHARGE (\$/KWH)                   |                     |                     | 9        |
| 10       | ON-PEAK                                  | \$0.21360           |                     | 10       |
| 11       | PART-PEAK                                |                     | \$0.11718           | 11       |
| 12       | OFF-PEAK                                 | \$0.11751           | \$0.09917           | 12       |
| 13       | SCHEDULE AG-4C                           |                     |                     | 13       |
| 14       | CUSTOMER CHARGE - RATES C & F (\$/MONTH) | \$64.80             | \$64.80             | 14       |
| 15       | METER CHARGE - RATE C (\$/MONTH)         | \$6.00              | \$6.00              | 15       |
| 16       | METER CHARGE - RATE F (\$/MONTH)         | \$1.20              | \$1.20              | 16       |
| 17       | DEMAND CHARGE (\$/KW/MONTH)              |                     |                     | 17       |
| 18       | ON-PEAK                                  | \$8.71              |                     | 18       |
| 19       | PART-PEAK                                | \$1.64              | \$0.33              | 19       |
| 20       | MAXIMUM                                  | \$3.01              | \$1.46              | 20       |
| 21       | PRIMARY VOLTAGE DISCOUNT                 | \$1.04              | \$0.18              | 21       |
| 22       | TRANSMISSION VOLTAGE DISCOUNT            | \$5.52              | \$1.36              | 22       |
| 23       | ENERGY CHARGE (\$/KWH)                   |                     |                     | 23       |
| 24       | ON-PEAK                                  | \$0.19852           |                     | 24       |
| 25       | PART-PEAK                                | \$0.11760           | \$0.09802           | 25       |
| 26       | OFF-PEAK                                 | \$0.08900           | \$0.08542           | 26       |
| 27       | SCHEDULE AG-5B                           |                     |                     | 27       |
| 28       | CUSTOMER CHARGE - RATES B & E (\$/MONTH) | \$30.00             | \$30.00             | 28       |
| 29       | METER CHARGE - RATE B (\$/MONTH)         | \$6.00              | \$6.00              | 29       |
| 30       | METER CHARGE - RATE E (\$/MONTH)         | \$1.20              | \$1.20              | 30       |
| 31       | ON-PEAK DEMAND CHARGE (\$/KW/MONTH)      | \$7.53              |                     | 31       |
| 32       | MAXIMUM DEMAND CHARGE (\$/KW/MONTH)      |                     |                     | 32       |
| 33       | SECONDARY VOLTAGE                        | \$10.87             | \$3.85              | 33       |
| 34       | PRIMARY VOLTAGE DISCOUNT                 | \$1.39              | \$0.13              | 34       |
| 35       | TRANSMISSION VOLTAGE DISCOUNT            | \$7.96              | \$3.32              | 35       |
| 36       | ENERGY CHARGE (\$/KWH)                   |                     |                     | 36       |
| 37       | ON-PEAK                                  | \$0.17271           |                     | 37       |
| 38       | PART-PEAK                                |                     | \$0.08791           | 38       |
| 39       | OFF-PEAK                                 | \$0.06992           | \$0.06248           | 39       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

AGRICULTURAL RATES

| LINE NO. |  | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|--|---------------------|---------------------|----------|
| 1        | SCHEDULE AG-5C                           |                     |                     | 1        |
| 2        | CUSTOMER CHARGE - RATES C & F (\$/MONTH) | \$160.00            | \$160.00            | 2        |
| 3        | METER CHARGE - RATE C (\$/MONTH)         | \$6.00              | \$6.00              | 3        |
| 4        | METER CHARGE - RATE F (\$/MONTH)         | \$1.20              | \$1.20              | 4        |
| 5        | DEMAND CHARGE (\$/KW/MONTH)              |                     |                     | 5        |
| 6        | ON-PEAK                                  | \$12.68             |                     | 6        |
| 7        | PART-PEAK                                | \$2.60              | \$0.56              | 7        |
| 8        | MAXIMUM                                  | \$4.29              | \$2.86              | 8        |
| 9        | PRIMARY VOLTAGE DISCOUNT                 | \$2.00              | \$0.16              | 9        |
| 10       | TRANSMISSION VOLTAGE DISCOUNT            | \$10.73             | \$2.09              | 10       |
| 11       | ENERGY CHARGE (\$/KWH)                   |                     |                     | 11       |
| 12       | ON-PEAK                                  | \$0.12708           |                     | 12       |
| 13       | PART-PEAK                                | \$0.08453           | \$0.07343           | 13       |
| 14       | OFF-PEAK                                 | \$0.06867           | \$0.06621           | 14       |
| 15       | SCHEDULE AG-ICE                          |                     |                     | 15       |
| 16       | CUSTOMER CHARGE (\$/MONTH)               | \$40.00             | \$40.00             | 16       |
| 17       | METER CHARGE (\$/MONTH)                  | \$6.00              | \$6.00              | 17       |
| 18       | ON-PEAK DEMAND CHARGE (\$/KW/MO)         | \$2.44              |                     | 18       |
| 19       | MAXIMUM DEMAND CHARGE (\$/KW/MO)         |                     |                     | 19       |
| 20       | SECONDARY                                | \$3.36              | \$0.00              | 20       |
| 21       | PRIMARY                                  | \$2.66              | \$0.00              | 21       |
| 22       | TRANSMISSION                             | \$1.17              | \$0.00              | 22       |
| 23       | ENERGY CHARGE (\$/KWH)                   |                     |                     | 23       |
| 24       | ON-PEAK                                  | \$0.11928           |                     | 24       |
| 25       | PART-PEAK                                | \$0.09304           | \$0.09543           | 25       |
| 26       | OFF-PEAK                                 | \$0.04771           | \$0.04771           | 26       |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010

STREETLIGHTING RATES

| LINE NO. |                               | 6/1/10 RATES SUMMER | 6/1/10 RATES WINTER | LINE NO. |
|----------|-------------------------------|---------------------|---------------------|----------|
| 1        | SCHEDULE LS-1                 |                     |                     | 1        |
| 2        | ENERGY CHARGE (\$/KWH)        | \$0.12173           | \$0.12173           | 2        |
| 3        | SCHEDULE LS-2                 |                     |                     | 3        |
| 4        | ENERGY CHARGE (\$/KWH)        | \$0.12173           | \$0.12173           | 4        |
| 5        | SCHEDULE LS-3                 |                     |                     | 5        |
| 6        | SERVICE CHARGE (\$/METER/MO.) | \$6.00              | \$6.00              | 6        |
| 7        | ENERGY CHARGE (\$/KWH)        | \$0.12173           | \$0.12173           | 7        |
| 8        | SCHEDULE OL-1                 |                     |                     | 8        |
| 9        | ENERGY CHARGE (\$/KWH)        | \$0.12716           | \$0.12716           | 9        |

| PACIFIC GAS AND ELECTRIC COMPANY                 |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
|--|------------------------|----------------|------------------------------------|----------|---------------|----------|----------|----|----------|----------|----------|-------------|----------------|---------|----|
| PRESENT ELECTRIC RATES                           |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| AS OF JUNE 1, 2010                               |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1 |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| NOMINAL LAMP RATINGS                             |                        |                | ALL NIGHT RATES PER LAMP PER MONTH |          |               |          |          |    |          |          |          |             | HALF-HOUR ADJ. |         |    |
| LAMP WATTS                                       | AVERAGE kWhr PER MONTH | INITIAL LUMENS | SCHEDULE LS-2                      |          | SCHEDULE LS-1 |          |          |    |          |          |          | LS-1 & LS-2 |                | OL-1    |    |
|  |                        |                | A                                  | C        | A             | B        | C        | D  | E        | F        | F.1      | OL-1        | LS-2           | OL-1    |    |
| MERCURY VAPOR LAMPS                              |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| 40   | 18                     | 1,300          | \$2.378                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | --             | \$0.100 | -- |
| 50   | 22                     | 1,650          | \$2.865                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | --             | \$0.122 | -- |
| 100  | 40                     | 3,500          | \$5.056                            | \$7.557  | \$11.334      | --       | \$9.817  | -- | --       | --       | --       | --          | --             | \$0.221 | -- |
| 175  | 68                     | 7,500          | \$8.465                            | \$10.966 | \$14.743      | \$13.234 | \$13.226 | -- | \$15.881 | \$15.956 | \$15.956 | \$15.112    | \$0.376        | \$0.393 | -- |
| 250  | 97                     | 11,000         | \$11.995                           | \$14.496 | \$18.273      | \$16.764 | \$16.756 | -- | --       | --       | --       | --          | \$0.537        | --      | -- |
| 400  | 152                    | 21,000         | \$18.690                           | \$21.191 | \$24.968      | \$23.459 | \$23.451 | -- | --       | --       | --       | \$25.793    | \$0.841        | \$0.879 | -- |
| 700  | 266                    | 37,000         | \$32.567                           | \$35.068 | \$38.845      | \$37.336 | \$37.328 | -- | --       | --       | --       | --          | \$1.472        | --      | -- |
| 1,000  | 377                    | 57,000         | \$46.079                           | \$48.580 | --            | --       | --       | -- | --       | --       | --       | --          | \$2.086        | --      | -- |
| INCANDESCENT LAMPS                               |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| 58   | 20                     | 600            | \$2.622                            | --       | \$8.900       | --       | --       | -- | --       | --       | --       | --          | \$0.111        | --      | -- |
| 92   | 31                     | 1,000          | \$3.961                            | \$6.462  | \$10.239      | --       | --       | -- | --       | --       | --       | --          | \$0.172        | --      | -- |
| 189  | 65                     | 2,500          | \$8.099                            | \$10.600 | \$14.377      | \$12.868 | --       | -- | --       | --       | --       | --          | \$0.360        | --      | -- |
| 295  | 101                    | 4,000          | \$12.482                           | \$14.983 | \$18.760      | \$17.251 | --       | -- | --       | --       | --       | --          | \$0.559        | --      | -- |
| 405  | 139                    | 6,000          | \$17.107                           | \$19.608 | \$23.385      | --       | --       | -- | --       | --       | --       | --          | \$0.769        | --      | -- |
| 620  | 212                    | 10,000         | \$25.994                           | \$28.495 | --            | --       | --       | -- | --       | --       | --       | --          | \$1.173        | --      | -- |
| 860  | 294                    | 15,000         | \$35.976                           | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$1.627        | --      | -- |
| LOW PRESSURE SODIUM VAPOR LAMPS                  |                        |                |                                    |          |               |          |          |    |          |          |          |             |                |         |    |
| 35   | 21                     | 4,800          | \$2.743                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$0.116        | --      | -- |
| 55   | 29                     | 8,000          | \$3.717                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$0.160        | --      | -- |
| 90   | 45                     | 13,500         | \$5.665                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$0.249        | --      | -- |
| 135  | 62                     | 21,500         | \$7.734                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$0.343        | --      | -- |
| 180  | 78                     | 33,000         | \$9.682                            | --       | --            | --       | --       | -- | --       | --       | --       | --          | \$0.432        | --      | -- |

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF JUNE 1, 2010  
ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1

| NOMINAL LAMP RATINGS<br>AVERAGE  |                   |                   | ALL NIGHT RATES PER LAMP PER MONTH |          |               |    |          |          |          |          |          |                | HALF-HOUR ADJ. |         |         |
|----------------------------------|-------------------|-------------------|------------------------------------|----------|---------------|----|----------|----------|----------|----------|----------|----------------|----------------|---------|---------|
| LAMP<br>WATTS                    | kWhr PER<br>MONTH | INITIAL<br>LUMENS | SCHEDULE LS-2                      |          | SCHEDULE LS-1 |    |          |          |          |          |          | LS-1 &<br>LS-2 |                | OL-1    |         |
|                                  |                   |                   | A                                  | C        | A             | B  | C        | D        | E        | F        | F.1      | OL-1           | LS-2           | OL-1    |         |
| HIGH PRESSURE SODIUM VAPOR LAMPS |                   |                   |                                    |          |               |    |          |          |          |          |          |                |                |         |         |
| AT 120 VOLTS                     |                   |                   |                                    |          |               |    |          |          |          |          |          |                |                |         |         |
| 35                               | 15                | 2,150             | \$2.013                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | --             | \$0.083 | --      |
| 50                               | 21                | 3,800             | \$2.743                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | --             | \$0.116 | --      |
| 70                               | 29                | 5,800             | \$3.717                            | \$6.218  | \$9.995       | -- | \$8.478  | \$11.606 | \$11.133 | \$11.208 | \$11.208 | \$10.153       | \$0.160        | \$0.168 | \$0.168 |
| 100                              | 41                | 9,500             | \$5.178                            | \$7.679  | \$11.456      | -- | \$9.939  | \$13.067 | \$12.594 | \$12.669 | \$12.669 | \$11.679       | \$0.227        | \$0.237 | \$0.237 |
| 150                              | 60                | 16,000            | \$7.491                            | \$9.992  | \$13.769      | -- | \$12.252 | \$15.380 | \$14.907 | \$14.982 | \$14.982 | --             | \$0.332        | --      | \$0.332 |
| 200                              | 80                | 22,000            | \$9.925                            | --       | \$16.203      | -- | \$14.686 | \$17.814 | \$17.341 | \$17.416 | \$17.416 | --             | \$0.443        | --      | \$0.443 |
| 250                              | 100               | 26,000            | \$12.360                           | --       | \$18.638      | -- | \$17.121 | \$20.249 | \$19.776 | \$19.851 | \$19.851 | --             | \$0.553        | --      | \$0.553 |
| 400                              | 154               | 46,000            | \$18.933                           | --       | \$25.211      | -- | \$23.694 | \$26.822 | \$26.349 | \$26.424 | \$26.424 | --             | \$0.852        | --      | \$0.852 |
| AT 240 VOLTS                     |                   |                   |                                    |          |               |    |          |          |          |          |          |                |                |         |         |
| 50                               | 24                | 3,800             | \$3.109                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.133        | --      | \$0.133 |
| 70                               | 34                | 5,800             | \$4.326                            | \$6.827  | \$10.604      | -- | --       | --       | --       | --       | --       | --             | \$0.188        | --      | \$0.188 |
| 100                              | 47                | 9,500             | \$5.908                            | \$8.409  | \$12.186      | -- | \$10.669 | --       | \$13.324 | \$13.399 | \$13.399 | --             | \$0.260        | --      | \$0.260 |
| 150                              | 69                | 16,000            | \$8.586                            | \$11.087 | \$14.864      | -- | \$13.347 | --       | \$16.002 | \$16.077 | \$16.077 | --             | \$0.382        | --      | \$0.382 |
| 200                              | 81                | 22,000            | \$10.047                           | \$12.548 | \$16.325      | -- | \$14.808 | --       | \$17.463 | \$17.538 | \$17.538 | \$16.765       | \$0.448        | \$0.468 | \$0.468 |
| 250                              | 100               | 25,500            | \$12.360                           | \$14.861 | \$18.638      | -- | \$17.121 | --       | \$19.776 | \$19.851 | \$19.851 | \$19.181       | \$0.553        | \$0.578 | \$0.578 |
| 310                              | 119               | 37,000            | \$14.673                           | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.658        | --      | \$0.658 |
| 360                              | 144               | 45,000            | \$17.716                           | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.797        | --      | \$0.797 |
| 400                              | 154               | 46,000            | \$18.933                           | \$21.434 | \$25.211      | -- | \$23.694 | --       | \$26.349 | \$26.424 | \$26.424 | \$26.048       | \$0.852        | \$0.890 | \$0.890 |
| METAL HALIDE LAMPS               |                   |                   |                                    |          |               |    |          |          |          |          |          |                |                |         |         |
| 70                               | 30                | 5,500             | \$3.839                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.166        | --      | \$0.166 |
| 100                              | 41                | 8,500             | \$5.178                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.227        | --      | \$0.227 |
| 150                              | 63                | 13,500            | \$7.856                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.349        | --      | \$0.349 |
| 175                              | 72                | 14,000            | \$8.952                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.398        | --      | \$0.398 |
| 250                              | 105               | 20,500            | \$12.969                           | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.581        | --      | \$0.581 |
| 400                              | 162               | 30,000            | \$19.907                           | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.896        | --      | \$0.896 |
| 1,000                            | 387               | 90,000            | \$47.297                           | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$2.141        | --      | \$2.141 |
| INDUCTION LAMPS                  |                   |                   |                                    |          |               |    |          |          |          |          |          |                |                |         |         |
| 40                               | 14                | 2,200             | \$1.891                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.077        | --      | \$0.077 |
| 55                               | 19                | 3,000             | \$2.500                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.105        | --      | \$0.105 |
| 80                               | 27                | 4,500             | \$3.474                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.149        | --      | \$0.149 |
| 85                               | 30                | 4,800             | \$3.839                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.166        | --      | \$0.166 |
| 120                              | 42                | 8,500             | \$5.240                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.230        | --      | \$0.230 |
| 150                              | 51                | 10,900            | \$6.395                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.282        | --      | \$0.282 |
| 165                              | 58                | 12,000            | \$7.247                            | --       | --            | -- | --       | --       | --       | --       | --       | --             | \$0.321        | --      | \$0.321 |

Energy Rate @ \$0.12173 per kwh LS-1 & LS-2  
\$0.12716 per kwh OL-1

Pole Painting Charge @ \$0.000 Per Pole Per Month

| <b>PACIFIC GAS AND ELECTRIC COMPANY<br/>AS OF JUNE 1, 2010</b> |                    |                        |                   |
|--|--------------------|------------------------|-------------------|
| <b>LIGHT EMITTING DIODE (LED) LAMPS</b>                        |                    |                        |                   |
| <u>NOMINAL LAMP RATINGS</u>                                    |                    | <u>ALL NIGHT RATES</u> | <u>HALF-HOUR</u>  |
| <u>Lamp</u>  | <u>Average kWh</u> | <u>PER LAMP</u>        | <u>ADJUSTMENT</u> |
| <u>Watts</u>   | <u>Per Month</u>   | <u>PER MONTH</u>       |                   |
|  |                    | A                      | A                 |
| 0.0-5.0  | 0.9                | \$0.110                | \$0.005           |
| 5.1-10.0   | 2.6                | \$0.316                | \$0.014           |
| 10.1-15.0  | 4.3                | \$0.523                | \$0.024           |
| 15.1-20.0  | 6.0                | \$0.730                | \$0.033           |
| 20.1-25.0  | 7.7                | \$0.937                | \$0.043           |
| 25.1-30.0  | 9.4                | \$1.144                | \$0.052           |
| 30.1-35.0  | 11.1               | \$1.351                | \$0.061           |
| 35.1-40.0  | 12.8               | \$1.558                | \$0.071           |
| 40.1-45.0  | 14.5               | \$1.765                | \$0.080           |
| 45.1-50.0  | 16.2               | \$1.972                | \$0.090           |
| 50.1-55.0  | 17.9               | \$2.179                | \$0.099           |
| 55.1-60.0  | 19.6               | \$2.386                | \$0.108           |
| 60.1-65.0  | 21.4               | \$2.605                | \$0.118           |
| 65.1-70.0  | 23.1               | \$2.812                | \$0.128           |
| 70.1-75.0  | 24.8               | \$3.019                | \$0.137           |
| 75.1-80.0  | 26.5               | \$3.226                | \$0.147           |
| 80.1-85.0  | 28.2               | \$3.433                | \$0.156           |
| 85.1-90.0  | 29.9               | \$3.640                | \$0.165           |
| 90.1-95.0  | 31.6               | \$3.847                | \$0.175           |
| 95.1-100.0   | 33.3               | \$4.054                | \$0.184           |
| 100.1-105.1  | 35.0               | \$4.261                | \$0.194           |
| 105.1-110.0  | 36.7               | \$4.467                | \$0.203           |
| 110.1-115.0  | 38.4               | \$4.674                | \$0.212           |
| 115.1-120.0  | 40.1               | \$4.881                | \$0.222           |
| 120.1-125.0  | 41.9               | \$5.100                | \$0.232           |
| 125.1-130.0  | 43.6               | \$5.307                | \$0.241           |
| 130.1-135.0  | 45.3               | \$5.514                | \$0.251           |
| 135.1-140.0  | 47.0               | \$5.721                | \$0.260           |
| 140.1-145.0  | 48.7               | \$5.928                | \$0.269           |
| 145.1-150.0  | 50.4               | \$6.135                | \$0.279           |
| 150.1-155.0  | 52.1               | \$6.342                | \$0.288           |
| 155.1-160.0  | 53.8               | \$6.549                | \$0.298           |
| 160.1-165.0  | 55.5               | \$6.756                | \$0.307           |
| 165.1-170.0  | 57.2               | \$6.963                | \$0.317           |
| 170.1-175.0  | 58.9               | \$7.170                | \$0.326           |
| 175.1-180.0  | 60.6               | \$7.377                | \$0.335           |
| 180.1-185.0  | 62.4               | \$7.596                | \$0.345           |
| 185.1-190.0  | 64.1               | \$7.803                | \$0.355           |
| 190.1-195.0  | 65.8               | \$8.010                | \$0.364           |
| 195.1-200.0  | 67.5               | \$8.217                | \$0.374           |
| 200.1-205.0  | 69.2               | \$8.424                | \$0.383           |
| 205.1-210.0  | 70.9               | \$8.631                | \$0.392           |
| 210.1-215.0  | 72.6               | \$8.838                | \$0.402           |
| 215.1-220.0  | 74.3               | \$9.045                | \$0.411           |

PACIFIC GAS AND ELECTRIC COMPANY  
AS OF JUNE 1, 2010

LIGHT EMITTING DIODE (LED) LAMPS

| <u>NOMINAL LAMP RATINGS</u> |                    | <u>ALL NIGHT RATES</u> | <u>HALF-HOUR</u>  |
|-----------------------------|--------------------|------------------------|-------------------|
| <u>Lamp</u>                 | <u>Average kWh</u> | <u>PER LAMP</u>        | <u>ADJUSTMENT</u> |
| <u>Watts</u>                | <u>Per Month</u>   | <u>PER MONTH</u>       |                   |
|                             |                    | A                      | A                 |
| 220.1-225.0                 | 76.0               | \$9.251                | \$0.421           |
| 225.1-230.0                 | 77.7               | \$9.458                | \$0.430           |
| 230.1-235.0                 | 79.4               | \$9.665                | \$0.439           |
| 235.1-240.0                 | 81.1               | \$9.872                | \$0.449           |
| 240.1-245.0                 | 82.9               | \$10.091               | \$0.459           |
| 245.1-250.0                 | 84.6               | \$10.298               | \$0.468           |
| 250.1-255.0                 | 86.3               | \$10.505               | \$0.478           |
| 255.1-260.0                 | 88.0               | \$10.712               | \$0.487           |
| 260.1-265.0                 | 89.7               | \$10.919               | \$0.496           |
| 265.1-270.0                 | 91.4               | \$11.126               | \$0.506           |
| 270.1-275.0                 | 93.1               | \$11.333               | \$0.515           |
| 275.1-280.0                 | 94.8               | \$11.540               | \$0.525           |
| 280.1-285.0                 | 96.5               | \$11.747               | \$0.534           |
| 285.1-290.0                 | 98.2               | \$11.954               | \$0.543           |
| 290.1-295.0                 | 99.9               | \$12.161               | \$0.553           |
| 295.1-300.0                 | 101.6              | \$12.368               | \$0.562           |
| 300.1-305.0                 | 103.4              | \$12.587               | \$0.572           |
| 305.1-310.0                 | 105.1              | \$12.794               | \$0.582           |
| 310.1-315.0                 | 106.8              | \$13.001               | \$0.591           |
| 315.1-320.0                 | 108.5              | \$13.208               | \$0.600           |
| 320.1-325.0                 | 110.2              | \$13.415               | \$0.610           |
| 325.1-330.0                 | 111.9              | \$13.622               | \$0.619           |
| 330.1-335.0                 | 113.6              | \$13.829               | \$0.629           |
| 335.1-340.0                 | 115.3              | \$14.035               | \$0.638           |
| 340.1-345.0                 | 117.0              | \$14.242               | \$0.647           |
| 345.1-350.0                 | 118.7              | \$14.449               | \$0.657           |
| 350.1-355.0                 | 120.4              | \$14.656               | \$0.666           |
| 355.1-360.0                 | 122.1              | \$14.863               | \$0.676           |
| 360.1-365.0                 | 123.9              | \$15.082               | \$0.686           |
| 365.1-370.0                 | 125.6              | \$15.289               | \$0.695           |
| 370.1-375.0                 | 127.3              | \$15.496               | \$0.704           |
| 375.1-380.0                 | 129.0              | \$15.703               | \$0.714           |
| 380.1-385.0                 | 130.7              | \$15.910               | \$0.723           |
| 385.1-390.0                 | 132.4              | \$16.117               | \$0.733           |
| 390.1-395.0                 | 134.1              | \$16.324               | \$0.742           |
| 395.1-400.0                 | 135.8              | \$16.531               | \$0.751           |

**PACIFIC GAS AND ELECTRIC COMPANY**

**June, 2010 Rate Change**

**ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1**

**NOMINAL LAMP RATINGS**

**AVERAGE**

**ALL NIGHT RATES PER LAMP PER MONTH**

**HALF-HOUR ADJ.**

| LAMP<br>WATTS                          | kWhr PER<br>MONTH | INITIAL<br>LUMENS | SCHEDULE LS-2 |          |          | SCHEDULE LS-1 |          |    |          |          |          | OL-1     | LS-1 &<br>LS-2 |         | OL-1    |      |
|--|-------------------|-------------------|---------------|----------|----------|---------------|----------|----|----------|----------|----------|----------|----------------|---------|---------|------|
|  |                   |                   | A             | C        |          | A             | B        | C  | D        | E        | F        |          | F.1            | LS-2    |         | OL-1 |
| <b>MERCURY VAPOR LAMPS</b>             |                   |                   |               |          |          |               |          |    |          |          |          |          |                |         |         |      |
| 40                                     | 18                | 1,300             | \$2.378       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | --      | \$0.100 | --   |
| 50                                     | 22                | 1,650             | \$2.865       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | --      | \$0.122 | --   |
| 100                                    | 40                | 3,500             | \$5.056       | \$7.557  | \$11.334 | --            | \$9.817  | -- | --       | --       | --       | --       | --             | --      | \$0.221 | --   |
| 175                                    | 68                | 7,500             | \$8.465       | \$10.966 | \$14.743 | \$13.234      | \$13.226 | -- | \$15.881 | \$15.956 | \$15.956 | \$15.112 | \$0.376        | \$0.393 |         |      |
| 250                                    | 97                | 11,000            | \$11.995      | \$14.496 | \$18.273 | \$16.764      | \$16.756 | -- | --       | --       | --       | --       | \$0.537        | --      |         |      |
| 400                                    | 152               | 21,000            | \$18.690      | \$21.191 | \$24.968 | \$23.459      | \$23.451 | -- | --       | --       | --       | \$25.793 | \$0.841        | \$0.879 |         |      |
| 700                                    | 266               | 37,000            | \$32.567      | \$35.068 | \$38.845 | \$37.336      | \$37.328 | -- | --       | --       | --       | --       | \$1.472        | --      |         |      |
| 1,000                                  | 377               | 57,000            | \$46.079      | \$48.580 | --       | --            | --       | -- | --       | --       | --       | --       | \$2.086        | --      |         |      |
| <b>INCANDESCENT LAMPS</b>              |                   |                   |               |          |          |               |          |    |          |          |          |          |                |         |         |      |
| 58                                     | 20                | 600               | \$2.622       | --       | \$8.900  | --            | --       | -- | --       | --       | --       | --       | --             | \$0.111 | --      |      |
| 92                                     | 31                | 1,000             | \$3.961       | \$6.462  | \$10.239 | --            | --       | -- | --       | --       | --       | --       | \$0.172        | --      |         |      |
| 189                                    | 65                | 2,500             | \$8.099       | \$10.600 | \$14.377 | \$12.868      | --       | -- | --       | --       | --       | --       | \$0.360        | --      |         |      |
| 295                                    | 101               | 4,000             | \$12.482      | \$14.983 | \$18.760 | \$17.251      | --       | -- | --       | --       | --       | --       | \$0.559        | --      |         |      |
| 405                                    | 139               | 6,000             | \$17.108      | \$19.609 | \$23.386 | --            | --       | -- | --       | --       | --       | --       | \$0.769        | --      |         |      |
| 620                                    | 212               | 10,000            | \$25.994      | \$28.495 | --       | --            | --       | -- | --       | --       | --       | --       | \$1.173        | --      |         |      |
| 860                                    | 294               | 15,000            | \$35.976      | --       | --       | --            | --       | -- | --       | --       | --       | --       | \$1.627        | --      |         |      |
| <b>LOW PRESSURE SODIUM VAPOR LAMPS</b> |                   |                   |               |          |          |               |          |    |          |          |          |          |                |         |         |      |
| 35                                     | 21                | 4,800             | \$2.743       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | \$0.116 | --      |      |
| 55                                     | 29                | 8,000             | \$3.717       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | \$0.160 | --      |      |
| 90                                     | 45                | 13,500            | \$5.665       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | \$0.249 | --      |      |
| 135                                    | 62                | 21,500            | \$7.734       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | \$0.343 | --      |      |
| 180                                    | 78                | 33,000            | \$9.682       | --       | --       | --            | --       | -- | --       | --       | --       | --       | --             | \$0.432 | --      |      |

PACIFIC GAS AND ELECTRIC COMPANY

June, 2010 Rate Change

ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1

NOMINAL LAMP RATINGS

AVERAGE

ALL NIGHT RATES PER LAMP PER MONTH

HALF-HOUR ADJ.

| LAMP WATTS   | kWhr PER MONTH | INITIAL LUMENS | SCHEDULE LS-2 |          | SCHEDULE LS-1 |    |          |          |          |          |          | OL-1     |          | LS-1 & LS-2 |         | OL-1    |
|--|----------------|----------------|---------------|----------|---------------|----|----------|----------|----------|----------|----------|----------|----------|-------------|---------|---------|
|  |                |                | A             | C        | A             | B  | C        | D        | E        | F        | F.1      | LS-2     | OL-1     |             |         |         |
| <b>HIGH PRESSURE SODIUM VAPOR LAMPS AT 120 VOLTS</b> |                |                |               |          |               |    |          |          |          |          |          |          |          |             |         |         |
| 35   | 15             | 2,150          | \$2.013       | --       | --            | -- | --       | --       | --       | --       | --       | --       | --       | --          | \$0.083 | --      |
| 50   | 21             | 3,800          | \$2.743       | --       | --            | -- | --       | --       | --       | --       | --       | --       | --       | --          | \$0.116 | --      |
| 70   | 29             | 5,800          | \$3.717       | \$6.218  | \$9.995       | -- | \$8.478  | \$11.606 | \$11.133 | \$11.208 | \$11.208 | \$11.208 | \$10.153 | \$0.160     | \$0.168 | \$0.237 |
| 100  | 41             | 9,500          | \$5.178       | \$7.679  | \$11.456      | -- | \$9.939  | \$13.067 | \$12.594 | \$12.669 | \$12.669 | \$12.669 | \$11.679 | \$0.227     | \$0.237 | \$0.237 |
| 150  | 60             | 16,000         | \$7.491       | \$9.992  | \$13.769      | -- | \$12.252 | \$15.380 | \$14.907 | \$14.982 | \$14.982 | \$14.982 | --       | \$0.332     | --      | --      |
| 200  | 80             | 22,000         | \$9.925       | --       | \$16.203      | -- | \$14.686 | \$17.814 | \$17.341 | \$17.416 | \$17.416 | \$17.416 | --       | \$0.443     | --      | --      |
| 250  | 100            | 26,000         | \$12.360      | --       | \$18.638      | -- | \$17.121 | \$20.249 | \$19.776 | \$19.851 | \$19.851 | \$19.851 | --       | \$0.553     | --      | --      |
| 400  | 154            | 46,000         | \$18.934      | --       | \$25.212      | -- | \$23.695 | \$26.823 | \$26.350 | \$26.425 | \$26.425 | \$26.425 | --       | \$0.852     | --      | --      |
| <b>AT 240 VOLTS</b>                                  |                |                |               |          |               |    |          |          |          |          |          |          |          |             |         |         |
| 50   | 24             | 3,800          | \$3.109       | --       | --            | -- | --       | --       | --       | --       | --       | --       | --       | \$0.133     | --      | --      |
| 70   | 34             | 5,800          | \$4.326       | \$6.827  | \$10.604      | -- | --       | --       | --       | --       | --       | --       | --       | \$0.188     | --      | --      |
| 100  | 47             | 9,500          | \$5.908       | \$8.409  | \$12.186      | -- | \$10.669 | --       | \$13.324 | \$13.399 | \$13.399 | \$13.399 | --       | \$0.260     | --      | --      |
| 150  | 69             | 16,000         | \$8.586       | \$11.087 | \$14.864      | -- | \$13.347 | --       | \$16.002 | \$16.077 | \$16.077 | \$16.077 | --       | \$0.382     | --      | --      |
| 200  | 81             | 22,000         | \$10.047      | \$12.548 | \$16.325      | -- | \$14.808 | --       | \$17.463 | \$17.538 | \$17.538 | \$17.538 | \$16.765 | \$0.448     | \$0.468 | \$0.468 |
| 250  | 100            | 25,500         | \$12.360      | \$14.861 | \$18.638      | -- | \$17.121 | --       | \$19.776 | \$19.851 | \$19.851 | \$19.851 | \$19.181 | \$0.553     | \$0.578 | \$0.578 |
| 310  | 119            | 37,000         | \$14.673      | --       | --            | -- | --       | --       | --       | --       | --       | --       | --       | \$0.658     | --      | --      |
| 360  | 144            | 45,000         | \$17.716      | --       | --            | -- | --       | --       | --       | --       | --       | --       | --       | \$0.797     | --      | --      |
| 400  | 154            | 46,000         | \$18.934      | \$21.435 | \$25.212      | -- | \$23.695 | --       | \$26.350 | \$26.425 | \$26.425 | \$26.425 | \$26.047 | \$0.852     | \$0.890 | \$0.890 |

NOTE: Both the 120 volt and the 240 volt 200 watt HPSV lamps on OL1 use the per lamp rate shown above (per M. Caselli).

METAL HALIDE LAMPS

|       |     |        |          |    |    |    |    |    |    |    |    |    |    |         |    |    |
|-------|-----|--------|----------|----|----|----|----|----|----|----|----|----|----|---------|----|----|
| 70    | 30  | 5,500  | \$3.839  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.166 | -- | -- |
| 100   | 41  | 8,500  | \$5.178  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.227 | -- | -- |
| 150   | 63  | 13,500 | \$7.856  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.349 | -- | -- |
| 175   | 72  | 14,000 | \$8.952  | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.398 | -- | -- |
| 250   | 105 | 20,500 | \$12.969 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.581 | -- | -- |
| 400   | 162 | 30,000 | \$19.907 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.896 | -- | -- |
| 1,000 | 387 | 90,000 | \$47.297 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$2.141 | -- | -- |

INDUCTION LAMPS

|     |    |        |         |    |    |    |    |    |    |    |    |    |    |         |    |    |
|-----|----|--------|---------|----|----|----|----|----|----|----|----|----|----|---------|----|----|
| 40  | 14 | 2,200  | \$1.891 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.077 | -- | -- |
| 55  | 19 | 3,000  | \$2.500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.105 | -- | -- |
| 80  | 27 | 4,500  | \$3.474 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.149 | -- | -- |
| 85  | 30 | 4,800  | \$3.839 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.166 | -- | -- |
| 120 | 42 | 8,500  | \$5.240 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.230 | -- | -- |
| 150 | 51 | 10,900 | \$6.395 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.282 | -- | -- |
| 165 | 58 | 12,000 | \$7.247 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \$0.321 | -- | -- |

All LEDs now on separate tab.

Energy Rate @

\$0.12173

per kwh

LS-1 & LS-2

\$0.12716

per kwh

OL-1

Pole Painting Charge @

Per Pole Per Month

01-Jun-10

**PACIFIC GAS AND ELECTRIC COMPANY  
ALL OPERATING DEPARTMENTS  
REVENUES, EXPENSES, RATE BASES AND RATES OF RETURN  
YEAR 2009 RECORDED  
ADJUSTED FOR RATEMAKING  
(000\$)**

| Line<br>No. |   | Electric<br>Operations | Gas<br>Operations | Total Utility<br>Operations |
|-------------|---|------------------------|-------------------|-----------------------------|
| 1           | Operating Revenue                         | 10,095,743             | 3,273,991         | 13,369,734                  |
| 2           | Operation Expenses                        | 6,117,502              | 2,192,173         | 8,309,675                   |
| 3           | Maintenance Expenses                      | 611,429                | 168,158           | 779,586                     |
| 4           | Depreciation Expense                      | 917,938                | 317,514           | 1,235,452                   |
| 5           | Amortization & Depletion of Utility Plant | 123,406                | 29,663            | 153,069                     |
| 6           | Regulatory Debits amd Credits             | 195,773                | 0                 | 195,773                     |
| 7           | Taxes Other Than Income Taxes             | 277,589                | 80,047            | 357,636                     |
| 8           | Income Taxes                              | 472,953                | 130,386           | 603,339                     |
| 9           | Gains from Disposition of Utilty Plant    | (448)                  | 0                 | (448)                       |
| 10          | Subtotal                                  | 8,716,142              | 2,917,941         | 11,634,082                  |
| 11          | Operating Income                          | 1,379,601              | 356,051           | 1,735,652                   |
| 12          | Weighted Average Rate Base                | 15,694,208             | 4,316,216         | 20,010,424                  |
| 13          | Rate of Return                            | 8.79%                  | 8.25%             | 8.67%                       |

## SERVICE OF NOTICE OF APPLICATION

In accordance with Rule 3.2(b), Applicant will mail a notice to the following, stating in general terms its proposed change in rates.

### State of California

To the Attorney General and the Department of General Services.

State of California  
Office of Attorney General  
1300 "I" Street, Suite 1101  
Sacramento, CA 95814-2952  
and

Department of General Services  
Office of Buildings & Grounds  
505 Van Ness Avenue, Room 2012  
San Francisco, CA 94102-3214

### Counties

To the County Counsel or District Attorney and the County Clerk in the following counties:

|              |                 |               |
|--------------|-----------------|---------------|
| Alameda      | Mariposa        | Santa Barbara |
| Alpine       | Mendocino       | Santa Clara   |
| Amador       | Merced          | Santa Cruz    |
| Butte        | Modoc           | Shasta        |
| Calaveras    | Monterey        | Sierra        |
| Colusa       | Napa            | Siskiyou      |
| Contra Costa | Nevada          | Solano        |
| El Dorado    | Placer          | Sonoma        |
| Fresno       | Plumas          | Stanislaus    |
| Glenn        | Sacramento      | Sutter        |
| Humboldt     | San Benito      | Tehama        |
| Kern         | San Bernardino  | Trinity       |
| Kings        | San Francisco   | Tulare        |
| Lake         | San Joaquin     | Tuolumne      |
| Lassen       | San Luis Obispo | Yolo          |
| Madera       | San Mateo       | Yuba          |
| Marin        |                 |               |

## Municipal Corporations

To the City Attorney and the City Clerk of the following municipal corporations:

|                 |                |                 |
|-----------------|----------------|-----------------|
| Alameda         | Colusa         | Hayward         |
| Albany          | Concord        | Healdsburg      |
| Amador City     | Corcoran       | Hercules        |
| American Canyon | Corning        | Hillsborough    |
| Anderson        | Corte Madera   | Hollister       |
| Angels          | Cotati         | Hughson         |
| Antioch         | Cupertino      | Huron           |
| Arcata          | Daly City      | Ione            |
| Arroyo Grande   | Danville       | Isleton         |
| Arvin           | Davis          | Jackson         |
| Atascadero      | Del Rey Oakes  | Kerman          |
| Atherton        | Dinuba         | King City       |
| Atwater         | Dixon          | Kingsburg       |
| Auburn          | Dos Palos      | Lafayette       |
| Avenal          | Dublin         | Lakeport        |
| Bakersfield     | East Palo Alto | Larkspur        |
| Barstow         | El Cerrito     | Lathrop         |
| Belmont         | Emeryville     | Lemoore         |
| Belvedere       | Escalon        | Lincoln         |
| Benicia         | Eureka         | Live Oak        |
| Berkeley        | Fairfax        | Livermore       |
| Biggs           | Fairfield      | Livingston      |
| Blue Lake       | Ferndale       | Lodi            |
| Brentwood       | Firebaugh      | Lompoc          |
| Brisbane        | Folsom         | Loomis          |
| Buellton        | Fort Bragg     | Los Altos       |
| Burlingame      | Fortuna        | Los Altos Hills |
| Calistoga       | Foster City    | Los Banos       |
| Campbell        | Fowler         | Los Gatos       |
| Capitola        | Fremont        | Madera          |
| Carmel          | Fresno         | Manteca         |
| Ceres           | Galt           | Maricopa        |
| Chico           | Gilroy         | Marina          |
| Chowchilla      | Gonzales       | Martinez        |
| Citrus Heights  | Grass Valley   | Marysville      |
| Clayton         | Greenfield     | McFarland       |
| Clearlake       | Gridley        | Mendota         |
| Cloverdale      | Grover Beach   | Menlo Park      |
| Clovis          | Guadalupe      | Merced          |
| Coalinga        | Gustine        | Mill Valley     |
| Colfax          | Half Moon Bay  | Millbrae        |
| Colma           | Hanford        | Milpitas        |

|                |              |                 |
|----------------|--------------|-----------------|
| Modesto        | Rocklin      | Saint Helena    |
| Monte Sereno   | Rohnert Park | Salinas         |
| Monterey       | Roseville    | San Anselmo     |
| Moraga         | Ross         | San Bruno       |
| Morgan Hill    | Sacramento   | San Carlos      |
| Morro Bay      |              | San Francisco   |
| Mountain View  |              | San Joaquin     |
| Napa           |              | San Jose        |
| Newark         |              | San Juan        |
| Nevada City    |              | Bautista        |
| Newman         |              | San Leandro     |
| Novato         |              | San Luis Obispo |
| Oakdale        |              | San Mateo       |
| Oakland        |              | San Pablo       |
| Orange Cove    |              | San Rafael      |
| Orinda         |              | San Ramon       |
| Orland         |              | Sand City       |
| Oroville       |              | Sanger          |
| Pacific Grove  |              | Santa Clara     |
| Pacifica       |              | Santa Cruz      |
| Palo Alto      |              | Santa Maria     |
| Paradise       |              | Santa Rosa      |
| Parlier        |              | Saratoga        |
| Paso Robles    |              | Sausalito       |
| Patterson      |              | Scotts Valley   |
| Petaluma       |              | Seaside         |
| Piedmont       |              | Sebastopol      |
| Pinole         |              | Selma           |
| Pismo Beach    |              | Shafter         |
| Pittsburg      |              | Shasta Lake     |
| Placerville    |              | Soledad         |
| Pleasant Hill  |              | Solvang         |
| Pleasanton     |              | Sonoma          |
| Plymouth       |              | Sonora          |
| Point Arena    |              |                 |
| Portola Valley |              |                 |
| Red Bluff      |              |                 |
| Redding        |              |                 |
| Redwood City   |              |                 |
| Reedley        |              |                 |
| Richmond       |              |                 |
| Ridgecrest     |              |                 |
| Rio Dell       |              |                 |
| Rio Vista      |              |                 |
| Ripon          |              |                 |
| Riverbank      |              |                 |

South  
San Francisco  
Stockton  
Suisun City  
Sunnyvale  
Sutter Creek  
Taft  
Tehama  
Tiburon  
Tracy  
Trinidad  
Turlock  
Ukiah  
Union City  
Vacaville  
Vallejo  
Victorville  
Walnut Creek  
Wasco  
Waterford  
Watsonville  
West Sacramento  
Wheatland  
Williams  
Willits  
Willows  
Windsor  
Winters  
Woodland  
Woodside  
Yountville  
Yuba City

**CERTIFICATE OF SERVICE  
BY  
ELECTRONIC MAIL AND U. S. MAIL**

I, Elizabeth J. Diamond, state that: I am a citizen of the United States and am employed in the City and County of San Francisco; I am over the age of eighteen (18) years and not a party to the within cause; and my business address is Pacific Gas and Electric Company, Law Department B30A-2482, 77 Beale Street, San Francisco, CA 94105-1814.

On the 20<sup>th</sup> day of August 2010, I caused to be served a true copy of:

**APPLICATION  
OF  
PACIFIC GAS AND ELECTRIC COMPANY (U 39E)  
TO RECOVER PUMPED STORAGE STUDY COSTS**

**[XX] Electronic Mail:** By serving the above document, via electronic mail transmission, to each of the parties listed on the official Service Lists for CPUC Docket No's. **A.09-12-020/I.10-07-027, R.08-08-009, R.10-05-006, and on the Mokelumne Stakeholder Advisory Forum** (copy attached).

**[XX] U. S. Mail:** By placing the enclosed document in sealed envelopes, with postage fully pre-paid, for collection and mailing and addressed to those parties without an electronic mail address listed on the official Service Lists for CPUC Docket No's. **A.09-12-020/I.10-07-027, R.08-08-009, and R.10-05-006, and on the Mokelumne Stakeholder Advisory Forum** (copy attached).

I certify and declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on this 20<sup>th</sup> day of August, 2010 at San Francisco, California.

\_\_\_\_\_  
/S/  
**ELIZABETH J. DIAMOND**

## Mokelumne Stakeholder Advisory Forum

| <b>Organization</b>   | <b>Name of Participant(s)</b>   | <b>E-Mail</b>   |
|---|---|---|
| <b>U. S. Forest Service,<br/>Eldorado NF (“USFS/ENF”) *</b>                             | <b>Ms. Beth Paulson<br/>Mr. Doug Barber<br/>Ms. Teresa McClung<br/>Ms. Julie Tupper</b>   | bapaulson@fs.fed.us<br>dkbarber@fs.fed.us<br>tmcclung@fs.fed.us<br>jtupper01@fs.fed.us  |
| <b>U. S. Fish &amp; Wildlife Service<br/> (“USFWS”) *</b>                               | <b>Ms. Deborah Giglio<br/>Mr. Bill Pelle<br/>Mr. William Foster</b>                       | deborah_giglio@fws.gov<br>william_pelle@fws.gov<br>william_foster@fws.gov               |
| <b>U. S. Bureau of Land<br/>Management (“USBLM”)</b>                                    | <b>Mr. Jim Eicher</b>   | jeicher@ca.blm.gov  |
| <b>California State Water<br/>Resources Control Board<br/> (“SWRCB”)</b>                | <b>Mr. Les Grober<br/>Ms. Camilla Williams<br/>Mr. Russ Kanz</b>                          | lgrober@waterboards.ca.gov<br>ckwilliams@waterboards.ca.gov<br>rkanz@waterboards.ca.gov |
| <b>California Department of Fish<br/>&amp; Game (“CDF&amp;G”)</b>                       | <b>Mr. Stafford Lehr<br/>Ms. Annie Manji<br/>Ms. Mary Lisa Lynch<br/>Mr. Ken Kundargi</b> | slehr@dfg.ca.gov<br>amanji@dfg.ca.gov<br>mlynch@dfg.ca.gov<br>kkundargi@dfg.ca.gov      |
| <b>Calaveras Band of Miwok Indians<br/>P. O. Box 1015<br/>West Point, CA 95255-1015</b> | <b>Tribal Chairperson</b>   |   |
| <b>Jackson Band of Miwok Indians<br/>P. O. Box 1090<br/>Jackson, CA 95642-1090</b>      | <b>Tribal Chairperson</b>   |   |
| <b>Sierra Native Americans<br/>P. O. Box 1204<br/>Ione, CA 95640-1204</b>               | <b>Tribal Chairperson</b>   |   |
| <b>Washoe Tribe of NV and CA<br/>861 Crescent Drive<br/>Carson City, NV 89701-7704</b>  | <b>Tribal Chairperson</b>   | darrel.cruz@washoetribe.us  |
| <b>Ione Band of Miwok Indians<br/>P. O. Box 1190<br/>Ione, CA 95640-1190</b>            | <b>Tribal Chairperson</b>   |   |

| <b>Organization</b>   | <b>Name of Participant(s)</b>                                 | <b>E-Mail</b>  |
|---|---|--|
| <b>Shingle Springs<br/>Band of Miwok Indians<br/>P.O. Box 1340<br/>Shingle Springs, CA 95682-1340</b>                         | <b>Tribal Chairperson</b>                                     |  |
| <b>Calaveras Band of<br/>Me-Wuk Indians<br/>P.O. Box 393<br/>West Point, CA 95255-0393</b>                                    | <b>Tribal Chairperson</b>                                     |  |
| <b>Buena Vista Rancheria<br/>of Me-Wuk Indians<br/>4650 Coalmine Road<br/>Ione, CA 95640</b>                                  | <b>Tribal Chairperson</b>                                     |  |
| <b>Chicken Ranch Band<br/>of Me-Wuk Indians<br/>Chicken Ranch Rancheria<br/>P.O. Box 1159<br/>Jamestown, CA 95327-1159</b>    | <b>Tribal Chairperson</b>                                     |  |
| <b>Sierra Native American Council<br/>1580 Longgate Road<br/>Plymouth, CA 95669-9725</b>                                      | <b>Mr. Sam Baugh</b>  |  |
| <b>Central Sierra Me-Wuk Cultural &amp;<br/>Historic Preservation Committee<br/>P.O. Box 1389<br/>Tuolumne, CA 95379-1389</b> | <b>Tribal Chairperson</b>                                     |  |
| <b>Native American Heritage<br/>Commission (“NAHC”)</b>   | <b>Mr. Larry Myers</b>  | nahc@pacbell.net                                     |
| <b>The Foothill Conservancy (“FC”)</b>  | <b>Mr. Pete Bell</b>  | pete@mokeriver.com                                   |
| <b>American Whitewater (“AW”)</b>   | <b>Mr. David Steindorf</b>                                    | dave@amwhitewater.org                                |
| <b>California Sportfishing<br/>Protection Alliance (“CSPA”)</b>   | <b>Mr. John Beuttler<br/>Mr. Chris Shutes</b>                 | jbeuttler@aol.com<br>blancapaloma@msn.com            |
| <b>East Bay Municipal Utility Dist.<br/> (“EBMUD”) *</b>  | <b>Ms. Lena Tam<br/>Ms. Priyanka Jain<br/>Mr. Marcel Hall</b> | ltam@ebmud.com<br>pjain@ebmud.com<br>mhall@ebmud.com |
| <b>Amador Water Agency<br/> (“AWA”) *</b>   | <b>Mr. James Abercrombie<br/>Mr. Gene Mancebo</b>             | jabercrombie@amadorwa.com<br>gmancebo@amadorwa.com   |

| <b>Organization</b>  | <b>Name of Participant(s)</b>                        | <b>E-Mail</b>                              |
|--|--|--|
| <b>Calaveras County Water Dist.</b><br>(“CCWD”) *              | <b>Mr. Ed Pattison</b><br><b>Ms. Jennifer Harder</b> | edwinp@ccwd.org<br>jharder@downeybrand.com |
| <b>Mokelumne River Water &amp; Power Authority (“MRWPA”) *</b> | <b>Mr. Mel Lytle</b>                                 | mlytle@sjgov.org                           |
| <b>Upper Mokelumne River Watershed Authority (“UMRWA”)</b>     | <b>Mr. Rob Alcott</b>                                | robalcott@aol.com                          |
| <b>Jackson Valley Irrigation Dist.</b><br>(“JVID”) *           | <b>Mr. Tom Hoover</b>                                | jvidtom@wildblue.net<br>jvid@wildblue.net  |
| <b>Amador Resource Conservation District (“ARCD”)</b>          | <b>Mr. Steve Cannon</b>                              | arcd@volcano.net                           |