BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

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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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")[1] 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

[1] 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.[2]

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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[2] 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).[3] In 2008, the Governor proposed that the requirement be increased to thirty-three percent (33%) by 2020,[4] 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.[5]

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.[6]

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

[4] Executive Order S-14-08 (Nov. 17, 2008).

[5] Executive Order S-21-09 (Sep. 15, 2009).

[6] CAISO, "Renewable Integration Study, Achieving California's 20% Renewables Portfolio Standard," September 2007, p. 14. Available at http://www.caiso.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."[7]

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).[8] 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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[7] 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. *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.

[8] 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.[9] 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."[10] 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."[11]

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.*[12]

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[9] Remarks of Steven Chu, Secretary, U. S. Department of Energy, Center for American Progress forum, February 23, 2009. Available at http://www.hydroworld.com/index/display/article-display/5283147802/ articles/hrhrw/hydro industrynews/pumpedstoragehydro/Energy secretary urges pumped storage investment to support grid.html

[10] 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.

[11] *Id.* at p. 16.

[12] 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."[13]

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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[13] *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.[14] 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.[15]

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.[16] 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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[14] *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").

[15] *See generally,* 18 C.F.R. Parts 4 and 5.

[16] *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.[17] 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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[17] 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	**Subtotal**	5,765	7,374	6,552	4,470	2,629	2,210	29,000
13	**Contingency (10%)**	576	737	655	447	263	221	2,900
14	Additional Storage Studies	775	400	400				1,575
15	**Total w/Contingency**	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.[18]

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):

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

[18] 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.[19]

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[19] 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
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San Francisco, CA 94105
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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:[20]

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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[20] 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.*[21]

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.[22] 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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[21] California Public Resources Code § 21065

[22] *See Citizens to Enforce CEQA v. City of Rohnert Park* (2005) 131 Cal.App.4th 1594, 1601; *Kaufman & Broad-South Bay, Inc. v. Morgan Hill Unified School District* (1992) 9 Cal. App.4th 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.[23]

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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[23] 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;

(3) Prepare a sufficiently detailed design to finalize an Application to the Commission seeking cost recovery authority for construction of the Mokelumne Pumped Storage Project; and

(4) Study the feasibility of developing pumped storage power projects at other sites.

2. Authorizing PG&E to record these costs in a Pumped Storage Project Balancing Account to track the difference between its initial estimate and the actual costs to perform these studies, and to seek necessary tariff revisions to implement this proposal within thirty days of the decision date; and

3. Granting such additional relief as the Commission may deem proper.

DATED: August 20, 2010

Respectfully submitted,

JANE K. YURA
Vice President – Regulation and Rates
Pacific Gas and Electric Company

By: /S/
JANE K. YURA

WILLIAM V. MANHEIM
MATTHEW A. FOGELSON

By: /S/
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Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

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

PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED STATEMENTS OF INCOME

	(Unaudited)			
	Three Months Ended June 30,		Six Months Ended June 30,	
(in millions)	**2010**	**2009**	**2010**	**2009**
Operating Revenues				
Electric	$ 2,515	$ 2,554	$ 5,025	$ 4,980
Natural gas	717	640	1,682	1,645
Total operating revenues	3,232	3,194	6,707	6,625
Operating Expenses				
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
Total operating expenses	2,536	2,537	5,392	5,455
Operating Income	696	657	1,315	1,170
Interest income	2	17	4	26
Interest expense	(164)	(166)	(320)	(339)
Other income (expense), net	1	15	(5)	36
Income Before Income Taxes	535	523	994	893
Income tax provision	196	132	391	263
Net Income	339	391	603	630
Preferred stock dividend requirement	4	4	7	7
Income Available for Common Stock	$ 335	$ 387	$ 596	$ 623

PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED BALANCE SHEETS

(in millions)	(Unaudited) Balance At June 30, 2010	Balance At December 31, 2009
ASSETS		
Current Assets		
Cash and cash equivalents	$ 60	$ 334
Restricted cash	583	633
Accounts receivable:		
Customers (net of allowance for doubtful accounts of $71 at 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
Total current assets	5,441	5,471
Property, Plant, and Equipment		
Electric	31,408	30,481
Gas	10,971	10,697
Construction work in progress	2,149	1,888
Total property, plant, and equipment	44,528	43,066
Accumulated depreciation	(14,546)	(14,175)
Net property, plant, and equipment	29,982	28,891
Other Noncurrent Assets		
Regulatory assets ($944 and $1,124 related to Energy Recovery Bonds at June 30, 2010 and December 31, 2009, respectively)	5,610	5,522
Nuclear decommissioning trusts	1,854	1,899
Income taxes receivable	740	610
Other	368	316
Total other noncurrent assets	8,572	8,347
TOTAL ASSETS	$ 43,995	$ 42,709

PACIFIC GAS AND ELECTRIC COMPANY
CONDENSED CONSOLIDATED BALANCE SHEETS

(in millions, except share amounts)	(Unaudited) Balance At June 30, 2010	Balance At December 31, 2009
LIABILITIES AND SHAREHOLDERS' EQUITY		
Current Liabilities		
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
Total current liabilities	7,424	6,392
Noncurrent Liabilities		
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
Total noncurrent liabilities	25,089	25,132
Commitments and Contingencies		
Shareholders' Equity		
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)
Total shareholders' equity	11,482	11,185
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY	$ 43,995	$ 42,709

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
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-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
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-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
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-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
AS OF JUNE 1, 2010

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
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 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
AS OF JUNE 1, 2010

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 RATES SUMMER	6/1/10 RATES 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 RATES SUMMER	6/1/10 RATES WINTER	LINE NO.
1	SCHEDULE S CUSTOMER AND METER CHARGE S			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 RATES SUMMER	6/1/10 RATES 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.	
	AVERAGE		SCHEDULE LS-2		SCHEDULE LS-1							LS-1 &	
LAMP WATTS	kWhr PER MONTH	INITIAL LUMENS	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			ALL NIGHT RATES PER LAMP PER MONTH									HALF-HOUR ADJ.	
	AVERAGE		**SCHEDULE LS-2**		**SCHEDULE LS-1**							LS-1 &	
LAMP WATTS	kWhr PER MONTH	INITIAL LUMENS	**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
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
150	60	16,000	$7.491	$9.992	$13.769	--	$12.252	$15.380	$14.907	$14.982	$14.982	--	$0.332	--
200	80	22,000	$9.925	--	$16.203	--	$14.686	$17.814	$17.341	$17.416	$17.416	--	$0.443	--
250	100	26,000	$12.360	--	$18.638	--	$17.121	$20.249	$19.776	$19.851	$19.851	--	$0.553	--
400	154	46,000	$18.933	--	$25.211	--	$23.694	$26.822	$26.349	$26.424	$26.424	--	$0.852	--
AT 240 VOLTS														
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	--	$0.260	--
150	69	16,000	$8.586	$11.087	$14.864	--	$13.347	--	$16.002	$16.077	$16.077	--	$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
250	100	25,500	$12.360	$14.861	$18.638	--	$17.121	--	$19.776	$19.851	$19.851	$19.181	$0.553	$0.578
310	119	37,000	$14.673	--	--	--	--	--	--	--	--	--	$0.658	--
360	144	45,000	$17.716	--	--	--	--	--	--	--	--	--	$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
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	--

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

PACIFIC GAS AND ELECTRIC COMPANY
AS OF JUNE 1, 2010

LIGHT EMITTING DIODE (LED) LAMPS

NOMINAL LAMP RATINGS		ALL NIGHT RATES	HALF-HOUR
Lamp Watts	Average kWh Per Month	PER LAMP PER MONTH	ADJUSTMENT
		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

NOMINAL LAMP RATINGS		ALL NIGHT RATES	HALF-HOUR
Lamp Watts	Average kWh Per Month	PER LAMP PER MONTH	ADJUSTMENT
		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			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		
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	$17.108		$19.609	$23.386	--	--	--	--	--	--	--	$0.769	--
620	212	10,000	$25.994		$28.495	--	--	--	--	--	--	--	--	$1.173	--
860	294	15,000	$35.976		--	--	--	--	--	--	--	--	--	$1.627	--
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
June, 2010 Rate Change

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 A	SCHEDULE LS-2 C	SCHEDULE LS-1 A	SCHEDULE LS-1 B	SCHEDULE LS-1 C	SCHEDULE LS-1 D	SCHEDULE LS-1 E	SCHEDULE LS-1 F	SCHEDULE LS-1 F.1	OL-1	LS-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
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
150	60	16,000	$7.491	$9.992	$13.769	--	$12.252	$15.380	$14.907	$14.982	$14.982	--	$0.332	--
200	80	22,000	$9.925	--	$16.203	--	$14.686	$17.814	$17.341	$17.416	$17.416	--	$0.443	--
250	100	26,000	$12.360		$18.638	--	$17.121	$20.249	$19.776	$19.851	$19.851		$0.553	
400	154	46,000	$18.934		$25.212	--	$23.695	$26.823	$26.350	$26.425	$26.425		$0.852	
AT 240 VOLTS														
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	--	$0.260	--
150	69	16,000	$8.586	$11.087	$14.864	--	$13.347	--	$16.002	$16.077	$16.077	--	$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
250	100	25,500	$12.360	$14.861	$18.638	--	$17.121	--	$19.776	$19.851	$19.851	$19.181	$0.553	$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	$26.047	$0.852	$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 No.		Electric Operations	Gas Operations	Total Utility 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
Alpine
Amador
Butte
Calaveras
Colusa
Contra Costa
El Dorado
Fresno
Glenn
Humboldt
Kern
Kings
Lake
Lassen
Madera
Marin
Mariposa
Mendocino
Merced
Modoc
Monterey
Napa
Nevada
Placer
Plumas
Sacramento
San Benito
San Bernardino
San Francisco
San Joaquin
San Luis Obispo
San Mateo
Santa Barbara
Santa Clara
Santa Cruz
Shasta
Sierra
Siskiyou
Solano
Sonoma
Stanislaus
Sutter
Tehama
Trinity
Tulare
Tuolumne
Yolo
Yuba

Municipal Corporations

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

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

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

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

Redacted

Mokelumne Stakeholder Advisory Forum

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

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

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