

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



**FILED**  
8-11-16  
04:59 PM

Application of Pacific Gas and Electric  
Company for Approval of the Retirement of  
Diablo Canyon Power Plant, Implementation  
of the Joint Proposal, And Recovery of  
Associated Costs Through Proposed  
Ratemaking Mechanisms

(U 39 E)

A1608006

Application 16-08-\_\_\_\_\_

**APPLICATION OF PACIFIC GAS AND ELECTRIC COMPANY (U 39 E)  
FOR APPROVAL OF THE RETIREMENT OF DIABLO CANYON POWER PLANT,  
IMPLEMENTATION OF THE JOINT PROPOSAL, AND RECOVERY OF  
ASSOCIATED COSTS THROUGH PROPOSED RATEMAKING MECHANISMS**

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Dated: August 11, 2016

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**I. INTRODUCTION**

For more than thirty years, Diablo Canyon Power Plant (“DCPP” or “Diablo Canyon”) has provided Californians with safe, reliable, and greenhouse-gas (“GHG”)-free energy.<sup>1/</sup> In less than ten years, the licenses issued by the Nuclear Regulatory Commission (“NRC”) for Diablo Canyon will expire. With this timing in mind, Pacific Gas and Electric Company (“PG&E”) has joined with labor, leading environmental organizations, and a community-based nuclear safety advocacy group to chart a different energy future. The Joint Parties<sup>2/</sup> represent diverse interests but are united in their commitment to helping California achieve its clean energy vision.

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<sup>1/</sup> For ease of reference, PG&E includes a table of acronyms and terms as Attachment F to this Application.

<sup>2/</sup> The Joint Parties include PG&E, the Natural Resources Defense Council, Friends of the Earth, Environment California, International Brotherhood of Electrical Workers (“IBEW”) Local 1245, Coalition of California Utility Employees, and the Alliance for Nuclear Responsibility. In addition, as described below in Section II.C, the California Energy Efficiency Industry Council (“CEEIC”) has indicated that it supports the Joint Proposal.

Together, the Joint Parties developed a proposal that would increase investment in energy efficiency, renewable resources, and other GHG-free resources while phasing out nuclear power in California in 2024 and 2025.

This broad coalition of partners with diverse points of view collectively came to a shared vision concerning the best and most responsible path forward for Diablo Canyon. A key element of this vision is the recognition of the value of carbon-free nuclear power as an important bridge strategy over the next eight to nine years. This transition period will help to ensure that power remains affordable and there is no increase in the use of fossil fuels. Equally important, this transition period will also provide essential time needed for PG&E's valued employees and the community to effectively plan for the future.

The Joint Proposal facilitates the retirement of Diablo Canyon and its orderly and measured replacement with energy efficiency, Renewables Portfolio Standard ("RPS")-eligible, and other GHG-free energy resources.<sup>3/</sup> To accomplish these goals, the Joint Proposal includes three tranches of energy efficiency and GHG-free energy resource procurement that will occur between 2018 and 2045, and addresses how the costs associated with this procurement will be allocated.

The Joint Parties also recognize the impact of the retirement of Diablo Canyon on PG&E's employees and the community. PG&E depends upon and has been committed to its Diablo Canyon employees and the local community where the plant is situated and its employees live. Thus, the Joint Proposal includes an employee retention program to keep Diablo Canyon's highly qualified workforce operating the plant until its retirement. The Joint Proposal also includes severance program provisions already included in decommissioning estimates and

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<sup>3/</sup> A copy of the Joint Proposal is included as Attachment A to this Application.

provisions to help employees transition to new positions through a retraining and development program. The proposed Employee Program provides appropriate incentives to the Diablo Canyon team to remain focused on the job of finishing the operating licenses of the plant safely, reliably, and with excellence, while knowing that they will be treated fairly when their current job is complete.

The Joint Proposal also addresses community impacts. Diablo Canyon is one of the largest employers, taxpayers, and charitable contributors in the San Luis Obispo County area. In order to further support this local community, the Joint Proposal includes continued funding for San Luis Obispo County at current Diablo Canyon property tax levels through 2025.

Because Diablo Canyon will be retiring in 2025, the Joint Proposal addresses the process for decommissioning and the cost associated with previous relicensing efforts. With regard to relicensing costs, the Joint Proposal recognizes that it was reasonable and prudent for PG&E to incur the costs related to the federal and state license renewal processes, which are largely comprised of technical and environmental studies and permitting and licensing costs paid to the NRC. PG&E's relicensing efforts were undertaken to preserve all options during a period of resource planning uncertainty. As a result, the Joint Proposal specifies that PG&E should be authorized to recover in rates the approximately \$53 million dollars reasonably incurred in the federal and state license renewal process.

Finally, in order to implement the Joint Proposal, PG&E requests that the Commission approve a new two-way balancing account to track the amortization of Diablo Canyon's net book value and capital additions and implement annual rate adjustments so that the book value is depreciated to zero and the costs are fully recovered in rates by the time Diablo Canyon ceases operations at the expiration of the current NRC operating licenses.

The Joint Proposal represents a landmark agreement to ensure the orderly retirement of Diablo Canyon, which has provided safe and reliable energy to California for more than 30 years, and to replace it with GHG-free resources, while at the same time addressing the needs of employees and the community. This Application describes the Joint Proposal and the specific relief PG&E seeks related to the Joint Proposal. PG&E's Prepared Testimony, which is being served concurrently with this Application, provides a more detailed discussion of the Joint Proposal, the relief requested, and the evidence which demonstrates that the requests in this Application are reasonable and in the best interests of California and PG&E's customers. The Joint Parties request that the Commission expeditiously review and approve this Application, which is a key stepping stone to California achieving its forward-looking energy goals and vision.

## **II. BACKGROUND**

### **A. Background Regarding Diablo Canyon**

Diablo Canyon Unit 1 commenced operation in 1984 and Unit 2 commenced operation in 1985. The NRC licenses expire in 2024 and 2025 for Units 1 and 2, respectively. Diablo Canyon has a capacity of more than 2,200 megawatts ("MW") and produces more than 18,000 gigawatt-hours ("GWh") of energy each year, providing approximately 6 percent of the energy generated in California annually, which is enough to meet the energy needs of more than three million Californians.

Over its 30-year lifetime, Diablo Canyon has been in operation more than 80 percent of the time, compared with the national average of 70 percent for other nuclear facilities. Since 1985, Diablo Canyon has operated safely and reliably, earning high performance and safety ratings from the NRC and the Institute of Nuclear Power Operations. Diablo Canyon's GHG-

free energy avoids seven to eight million metric tons per year of GHG emissions that would otherwise be produced by conventional generation resources.

Because of its safety, reliability, and environmental benefits, PG&E filed a license renewal application with the NRC on November 23, 2009, in order to preserve the option to operate Diablo Canyon for an additional 20 years beyond the expiration of the current operating licenses. The activities performed and costs incurred in support of license renewal were necessary to ensure the potential for continued operations beyond 2024. However, as explained below, PG&E has reconsidered its relicensing efforts due to the significant and accelerating changes in the California energy landscape since 2009.

**B. As A Result Of The Rapidly Changing California Energy Landscape, Diablo Canyon Will Not Be Needed At The End of the License Period**

California's electric grid is in the midst of a significant shift that creates challenges for Diablo Canyon in the coming decades. Changes in state policies, the electric generation fleet, and market conditions have combined to reduce the need for large, inflexible baseload power plants. These forces reduce the need for Diablo Canyon's output beyond the current license period. Specifically, PG&E is faced with four primary planning challenges associated with operating Diablo Canyon beyond the current license period.

First, PG&E's electricity supply needs are uncertain. Three key trends have significantly reduced PG&E's electricity sales in recent years and will likely have even greater impacts in the future – the expansion of energy efficiency, increases in distributed generation especially privately-owned solar resources, and the growth of alternative energy supplies such as Community Choice Aggregation (“CCA”). This downward pressure on bundled electric sales reduces the need for electricity from Diablo Canyon. The precise impact each of these factors



will have on PG&E's electricity supply needs is not certain, though in the aggregate these factors clearly reduce PG&E's electricity sales forecast.

Second, there is a decreasing need for baseload generation. As the electric grid in California continues to evolve, so too will the characteristics of resources needed to reliably operate the California electric system. Given California's energy goals that require increasing reliance on renewables – at least 50 percent by 2030 – the California electric system will need more flexible resources to integrate renewable energy and has less need for baseload electricity resources. PG&E's need for baseload power from Diablo Canyon will decrease after 2025.

Third, PG&E is addressing the challenge of renewable resource overgeneration conditions caused by excess renewable energy supply in certain times of the day. As more solar generation comes on line over time, and when its output is at peak supply (e.g., in the middle of the day), there is less room on the electric system for energy from inflexible and large baseload resources such as Diablo Canyon. Additionally, due to expected overgeneration throughout parts of the year, Diablo Canyon may contribute to higher system costs as its current generation profile and lack of dispatchability cause challenges for efficiently integrating renewable resources. Therefore, without Diablo Canyon, the cost to integrate renewables may be lower.

Finally, the cost to operate Diablo Canyon may significantly increase. Future operating costs are uncertain due to a variety of regulatory and other factors and could increase as the facility ages. Compliance with California's environmental protection regulations and other state and federal requirements may increase costs beyond 2025. These include, for example, any environmental mitigation or compliance measures required by California resource agencies, retrofits to comply with the State Water Resources Control Board's ("SWRCB") Once-Through Cooling ("OTC") regulation, or additional regulations or orders from the NRC in response to federal regulatory or legislative changes either currently under consideration or in the future.

### **C. Development of the Joint Proposal**

Recognizing the changing landscape of California's energy industry, the importance of California's GHG goals, and the need to provide sufficient time for an orderly replacement of Diablo Canyon, the Joint Parties worked together to develop the Joint Proposal with the goal of facilitating the retirement of Diablo Canyon at the end of the license periods, and replacing it with energy efficiency and GHG-free energy resources, such as renewable resources. After considerable negotiation, the Joint Proposal was announced on June 21, 2016.

On June 28, 2016, the California State Lands Commission approved the extension of DCP's submerged lands leases through the end of the NRC operating licenses, as contemplated in Section 6.1 of the Joint Proposal. In addition, on June 21, PG&E asked the NRC to suspend consideration of PG&E's license renewal application, as specified in Section 1 of the Joint Proposal.

On July 12, 2016, PG&E and the Joint Parties held a public workshop at PG&E's office in San Francisco to give interested parties an opportunity to review, ask questions, and potentially join in the Joint Proposal.<sup>4/</sup> PG&E also held two public workshops in San Luis Obispo on July 20 and two public workshops in South San Francisco on July 22 to answer questions about the Joint Proposal and hear comments. A report prepared by M.J. Bradley summarizing the issues raised at these sessions is included as an attachment to PG&E's Prepared

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<sup>4/</sup> PG&E extended an invitation to the public workshop to parties on the service lists for the following proceedings: PG&E's 2017 General Rate Case ("GRC") (Application ("A.") 15-09-001), 2015 Nuclear Decommissioning Triennial Proceeding ("NDCTP") (A.16-03-006), Energy Efficiency OIR (Rulemaking ("R.") 13-11-005); Renewables Portfolio Standard OIR (R.15-02-020); 2013 to 2015 Energy Resources Recovery Account ("ERRA") Compliance Applications (A.14-02-008, A.15-02-023, and A.16-02-019); Integrated Resource Plant OIR (R.16-02-007); and 2016 and 2017 ERRA Forecast Applications (A.15-06-001 and A.16-06-003).

Testimony. As a result of these workshops and additional discussions, CEEIC has indicated that it also supports the Joint Proposal.

Finally, after the Joint Proposal was announced, the Joint Parties initiated a number of meetings with representatives of CCA and direct access (“DA”) providers and customers regarding the procurement to replace Diablo Canyon outlined in the Joint Proposal. So far, the parties have discussed issues, concerns, and potential solutions, and have agreed to continue discussions after this Application is filed. The Joint Parties are hopeful that they can work collaboratively with CCA and DA representatives to reach a resolution of issues that will work for all of the parties.

A summary of the Joint Proposal is included below, followed by a description of the specific requests in this Application.

### **III. SUMMARY OF THE JOINT PROPOSAL**

The Joint Proposal requires approval by and implementation of discrete plan elements through a number of state and federal regulatory agencies. In this Application, PG&E requests Commission consideration and approval of Sections 2 through 5 of the Joint Proposal, and associated accounting, ratemaking, and cost recovery requests. PG&E proposes a procedural schedule that would call for responsive testimony to be served in the fall, hearings in December, briefs in January, and a proposed decision by May 2017. A final Commission decision in June 2017 would enable PG&E to proceed with the procurement of GHG-free resources in order to achieve Joint Proposal milestones for the orderly replacement of Diablo Canyon’s energy. PG&E’s request includes Commission review and approval of four critical aspects of the Joint Proposal, discussed in detail below.

## **A. Section 2 Of the Joint Proposal**

Pursuant to Section 2 of the Joint Proposal, PG&E seeks Commission approval of its plan to replace a portion of Diablo Canyon with GHG-free resources procured in three tranches over a fifteen-year period. This includes:

1. **Tranche #1:** This tranche includes one or more competitive solicitations and potentially new utility programs to add 2,000 gross GWh of energy efficiency to be installed by the end of 2024. This tranche is intended to reduce load with a GHG-free resource before Diablo Canyon retires.
2. **Tranche #2:** This tranche includes a competitive solicitation for 2,000 GWh of GHG-free energy for delivery in 2025-2030. Energy efficiency and RPS energy resources, as well as other GHG-free energy resources, will compete to fill this opportunity.
3. **Tranche #3:** This tranche includes a voluntary 55 percent RPS commitment, which is 5 percent above the 2030 RPS mandate in Senate Bill 350. The commitment would start in 2031 and terminate the earlier of 2045 or when superseded by law or a CPUC decision.

The three tranches of GHG-free resources are a first step towards replacing Diablo Canyon with a portfolio of GHG-free resources. Additional resources beyond those specified in the Joint Proposal may be needed on a system-wide basis to replace the output of Diablo Canyon. The Joint Parties envision that this issue will primarily be addressed through the Commission's Integrated Resource Planning process (*i.e.*, R.16-02-007). The Joint Parties are fully committed to supporting policies that result in replacing the output of Diablo Canyon with GHG-free resources. The Joint Proposal also addresses in Section 2.6 the allocation of costs related to this procurement.

## **B. Section 3 of the Joint Proposal**

Section 3 of the Joint Proposal seeks approval of the Diablo Canyon Employee Program, which includes employee retention, retraining, and severance programs that will be offered to Diablo Canyon staff to compensate employees fairly for their continued service, to provide

incentives for those employees to stay until the plant is retired, and to maintain a safety culture that mitigates the risk of costly plant outages. The Joint Proposal reflects the fact that PG&E and the state have benefited from a well-trained, highly skilled and dedicated workforce at Diablo Canyon for its 31 years of operations. PG&E employs approximately 1,500 workers at the facility. The Employee Program described in Chapter 7 of the Prepared Testimony provides a fair and equitable set of benefits and incentives to ensure that, until the last day of Diablo Canyon's operation, there is a continuity of operational excellence. This proposal treats employees fairly and benefits customers by mitigating risk of inefficient operation that may result from the loss of experienced and knowledgeable employees.

PG&E executed labor agreements with IBEW Local 1245, the Engineers and Scientists of California, Local 20, and the Service Employees International Union to implement the retention program. PG&E requests Commission approval of these programs and authority to recover its forecasted costs of the retention and retraining programs as specified in Chapters 7 and 10 of the Prepared Testimony.

#### **C. Section 4 of the Joint Proposal**

Section 4 of the Joint Proposal recognizes and honors the mutually beneficial relationship that has existed between Diablo Canyon and the local community in which it is situated over the past three decades. Diablo Canyon has provided reliable, safe, and economic GHG-free electricity for more than 30 years. It has done so with the support and assistance of the local community that has provided a home for DCPD and its employees. Over many years, the local community has both reaped the many benefits and also borne the burdens – both realized and potential – associated with hosting an operating nuclear power plant. Simply put, Diablo Canyon could not have realized its tremendous value to all of PG&E's customers without the help and willing partnership of the local community.

Diablo Canyon is one of the largest employers, taxpayers, and charitable contributors in the San Luis Obispo County area. It currently pays approximately \$22 million in annual property taxes to the local community. In order to continue to support this local community even as the facility begins to retire, PG&E proposes to provide \$49.5 million in funding to San Luis Obispo County over a nine-year period to mitigate the decline in the economic benefit that the plant's operations have traditionally provided. The mitigation payment would be recovered through nuclear decommissioning funding.

In addition, PG&E proposes to continue its support for state and local emergency planning and preparedness, including continuing support for the San Luis Obispo County early warning system, until the decommissioning of Diablo Canyon is complete. PG&E and the other Joint Parties believe that this Community Program strikes the right balance between providing appropriate transitional assistance to the community while also recognizing that the community must manage this transition so that it can thrive in the longer term without the historic levels of spending and taxes funded by PG&E customers.

#### **D. Section 5 of the Joint Proposal**

Finally, Section 5 of the Joint Proposal addresses cost recovery for Diablo Canyon during the remaining nine years of operations and defines the process ahead for decommissioning. In this Application, PG&E requests the Commission approve a new two-way balancing account to track the amortization of Diablo Canyon's net book value and capital additions and implement annual rate adjustments so that the book value is depreciated to zero and the costs are fully recovered in rates by the time Diablo Canyon ceases operations at the end of its NRC operations licenses. In addition, the Joint Proposal specifies that PG&E should be authorized to recover in rates the approximately \$53 million dollars incurred in the federal and state license renewal process to perform technical and environmental assessments. The Joint Parties agree that it was

reasonable for PG&E to incur these costs in order to preserve all options, including license renewal, during a period of resource planning uncertainty that resulted in the decision reflected in the Joint Proposal.

Section 5.4 of the Joint Proposal addresses the process for decommissioning Diablo Canyon. It states that PG&E will prepare a detailed, site-specific decommissioning plan for Diablo Canyon that will be filed with the Commission no later than the date when the 2018 Nuclear Decommissioning Cost Triennial Proceeding (“NDCTP”) will be submitted. This plan will update the cost estimate for the decommissioning project.

#### **IV. DESCRIPTION OF PG&E’S REQUESTS IN THIS APPLICATION**

In order to implement the four sections of the Joint Proposal described above, PG&E requests that the Commission authorize PG&E to:

1. Conduct the procurement activities related to Tranches #1 through #3, as described in Section 2 of the Joint Proposal and in Chapters 4 to 6 of PG&E’s Prepared Testimony.
2. Recover \$1.3 billion for administration and acquisition of the new Tranche #1 energy efficiency procurement as authorized energy efficiency funding, subject to return of all unspent funds as described in Chapter 4, over a 7-year period through an annual expense-only revenue requirement of \$187 million beginning January 1, 2019 through December 31, 2025 through the electric Public Purpose Program (“PPP”) rate component.
3. Recover Tranche #2 procurement costs for energy efficiency resources through the PPP rate component.
4. Establish the Clean Energy Charge, which would include separate components to: (a) recover GHG-free energy resource procurement costs related to Tranche #2 procurement from all electric users in PG&E’s service territory including PG&E’s bundled electric customers, CCA customers, and DA customers, subject to a self-provision option; and (b) recover RPS procurement costs related to Tranche #3 from PG&E bundled electric customers that depart after the Commission issues a decision approving this Application. These two components of the Clean Energy Charge are described in more detail in Chapters 5 and 6, respectively, of PG&E’s Prepared Testimony, and the Clean Energy Charge itself is described in Chapter 10 of PG&E’s Prepared Testimony.

5. Establish a self-provision option for CCA and DA providers that elect to self-provide GHG-free energy resources in lieu of the Tranche #2 component of the Clean Energy Charge. CCA and DA providers would elect to self-provide within thirty days of a Commission decision approving this Application and would agree to procure a specified amount of GHG-free resources, measured in GWh, and commit to a 55% RPS for the period 2031 through 2045. The self-provision option is described in more detail in Chapter 5 of PG&E's Prepared Testimony.
6. Recover \$352.1 million in costs associated with retaining approximately 1,500 employees at Diablo Canyon, as described in Chapter 7, to ensure the plant's continued safe and efficient operation through the end of each unit's license in 2024 and 2025, respectively, over a 7-year period through an annual expense-only revenue requirement of \$50.9 million beginning January 1, 2018 through December 31, 2024 through the Nuclear Decommissioning ("ND") NBC.
7. Implement the Employee Severance Program described in Chapter 7 and authorize PG&E to continue to forecast and recover the cost of the Employee Severance Program in each subsequent NDCTP.
8. Recover \$11.3 million in costs associated with retraining eligible employees at Diablo Canyon, as described in Chapter 7, and to recover these costs over a 5-year period through an annual expense-only revenue requirement of \$2.3 million from January 1, 2021 through December 31, 2025 through the ND NBC.
9. Continue providing emergency preparedness support to the state and local community during the decommissioning process, as described in Chapter 8, and authorize PG&E to forecast and recover the associated costs in each subsequent NDCTP, subject to the stakeholder review process proposed in Chapter 8.
10. Recover \$49.5 million to offset property tax loss for San Luis Obispo County, as described in Chapter 8 of PG&E's Prepared Testimony, over an 8-year period through an annual expense only revenue requirement of \$6.3 million beginning January 1, 2018 through December 31, 2025 through the ND NBC.
11. Recover \$52.7 million in costs associated with Diablo Canyon license renewal activities, as described in Chapter 9, through an expense-only revenue requirement of \$6.7 million to be recovered from customers over an 8-year period from January 1, 2018 through December 31, 2025, through the generation rate component.
12. Establish a new two-way balancing account, the Diablo Canyon Retirement Balancing Account, as described in Chapter 10 of PG&E's Prepared Testimony, effective January 1, 2017 with the following subaccounts:



- a. Diablo Canyon Capital Depreciation Subaccount to recover DCPD Units 1 and 2 full book value by the time the units cease operations on November 2, 2024 and August 26, 2025, respectively, or by December 31, 2024 should the SWRCB not grant PG&E's request to continue once through cooling operations for Unit 2 beyond December 30, 2024.
  - b. Employee Retention Program Subaccount to administer recovery of \$352.1 million in costs associated with retaining PG&E's employees at Diablo Canyon for the remainder of plant operations.
  - c. Employee Retraining Program Subaccount to administer recovery of \$11.3 million in costs associated with retraining eligible employees at Diablo Canyon.
13. Update the Diablo Canyon capital depreciation expense revenue requirement annually, as described in Chapter 10, to reflect the forecast annual gross additions as provided in PG&E's GRC and to true-up the previous year's authorized revenues with actual capital depreciation expense through a Tier 3 advice letter to be filed in May of each year through the remainder of DCPD's licenses.

## **V. OVERVIEW OF PREPARED TESTIMONY**

PG&E's Prepared Testimony accompanying this Application consists of one exhibit (PG&E-1) which includes the following chapters:

<b>Chapter</b>	<b>Title</b>
1	Policy and Overview
2	Diablo Canyon Power Plant Need Analysis
3	Replacement of Diablo Canyon Power Plant
4	Tranche #1 – Energy Efficiency
5	Tranche #2 – All Source GHG Free Energy Request for Offers
6	Tranche #3 –Voluntary 55 Percent Renewables Portfolio Standard Commitment
7	Employee Program
8	Community Impacts Mitigation Program
9	DCPD License Renewal Project Costs 2009-2016
10	Accounting, Cost Recovery, and Revenue Requirements

## **VI. INFORMATION REQUIRED BY THE COMMISSION'S RULES OF PRACTICE AND PROCEDURE**

### **A. Statutory and Other Authority (Rule 2.1)**

PG&E files this Application pursuant to California Public Utilities Code Sections 365.1, 366.2, 380, 451, 454.5, 454.52, 455, 701, and 8321-8330, the Commission's Rules of Practice and Procedure, and prior decisions, orders and resolutions of the Commission. There are numerous Commission decisions addressing various aspects of this Application including decisions related to energy efficiency, RPS implementation, resource and long-term planning, allocation of procurement costs, nuclear decommissioning activities and costs, Diablo Canyon relicensing costs, and other issues raised or addressed in this Application.

### **B. Legal Name and Principal Place of Business (Rule 2.1(a))**

The legal name of the Applicant is Pacific Gas and Electric Company. PG&E is a corporation organized under the State of California. PG&E's principal place of business is 77 Beale Street, San Francisco, California 94105.

### **C. Correspondence and Communications (Rule 2.1(b))**

All correspondence, communications, and service of papers regarding this Application should be directed to:

William Manheim  
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P.O. Box 7442 (B30A)  
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### **D. Categorization, Hearings, And Issues To Be Considered (Rule 2.1(c))**

#### **1. Proposed Categorization**

PG&E proposes that this Application be categorized as a ratesetting proceeding.

## **2. Need for Hearings**

The need for hearings depends on the degree to which other parties contest this Application. While PG&E hopes to resolve the Application without hearings, PG&E's proposed schedule conservatively assumes that hearings may be necessary.

## **3. Issues to Be Considered**

The issues to be considered in this Application are as follows:

1. Whether PG&E should be authorized to conduct the procurement activities related to Tranches #1 through #3, as described in Section 2 of the Joint Proposal and in Chapters 4 to 6 of PG&E's Prepared Testimony.
2. Whether PG&E should be authorized to recover \$1.3 billion for administration and acquisition of the new Tranche #1 energy efficiency as authorized energy efficiency funding over a 7-year period through an annual expense-only revenue requirement of \$187 million beginning January 1, 2019 through December 31, 2025 through the electric PPP rate component, subject to a return of unspent funds.
3. Whether Tranche #2 procurement costs for energy efficiency resources should be recovered through the PPP rate component.
4. Whether PG&E should be authorized to establish the Clean Energy Charge, which would include separate components to: (a) recover GHG-free energy resource procurement costs related to Tranche #2 procurement from all electric users in PG&E's service territory including PG&E's bundled electric customers, CCA customers, and DA customers, subject a self-provision option; and (b) recover RPS procurement costs related to Tranche #3 from PG&E bundled electric customers that depart after the Commission issues a decision approving this Application. These two components of the Clean Energy Charge are described in more detail in Chapters 5 and 6, respectively, of PG&E's Prepared Testimony, and the Clean Energy Charge itself is described in Chapter 10 of PG&E's Prepared Testimony.
5. Whether PG&E should be authorized to establish a self-provision option for CCA and DA providers that elect to self-provide GHG-free energy resources in lieu of the Tranche #2 component of the Clean Energy Charge. CCA and DA providers would elect to self-provide within thirty days of a Commission decision approving this Application and would agree to procure a certain GWh amount of GHG-free resources as well as commit to a 55% RPS for the period 2031 through 2045. The self-provision option is described in more detail in Chapter 5 of PG&E's Prepared Testimony.

6. Whether PG&E should be authorized to recover \$352.1 million in costs associated with retaining approximately 1,500 employees at Diablo Canyon to ensure the plant's continued safe and efficient operation through the expiration of each unit's license in 2024 and 2025, respectively, over a 7-year period through an annual expense-only revenue requirement of \$50.9 million beginning January 1, 2018 through December 31, 2024 through the ND NBC.
7. Whether PG&E should recover \$11.3 million in costs associated with retraining eligible employees at Diablo Canyon, as described in Chapter 7, and to recover these costs over a 5-year period through an annual expense-only revenue requirement of \$2.3 million from January 1, 2021 through December 31, 2025 through the ND NBC.
8. Whether PG&E should be authorized to recover \$49.5 million to offset property tax loss to San Luis Obispo County through 2024 over an 8-year period through an annual expense only revenue requirement of \$6.3 million beginning January 1, 2018 through December 31, 2025 through the ND NBC.
9. Whether the Commission should approve the Employee Severance Program described in Chapter 7 and authorize PG&E to continue to forecast and recover the cost of the Employee Severance Program in each subsequent NDCTP.
10. Whether the Commission should approve PG&E's proposal to continue providing emergency preparedness support to the state and local community during the decommissioning process and authorize PG&E to forecast and recover the associated costs in each subsequent NDCTP, subject to the stakeholder review process proposed in Chapter 8.
11. Whether PG&E should be authorized to recover \$52.7 million in costs associated with Diablo Canyon license renewal activities, as described in Chapter 9, through an expense-only revenue requirement of \$6.7 million to be recovered from customers over an 8-year period from January 1, 2018 through December 31, 2025, through the generation rate component.
12. Whether the Commission should approve the establishment of a new two-way balancing account, the Diablo Canyon Retirement Balancing Account effective January 1, 2017 with the following subaccounts:
  - a. Diablo Canyon Capital Depreciation Subaccount to recover DCCP Units 1 and 2 full book value by the time the units cease operations on November 2, 2024 and August 26, 2025, respectively, or by December 31, 2024 should the SWRCB not grant PG&E's request to continue once through cooling operations for Unit 2 beyond December 30, 2024.

- b. Employee Retention Program Subaccount to administer recovery of \$352.1 million in costs associated with retaining PG&E's employees at Diablo Canyon for the remainder of plant operations.
  - c. Employee Retraining Program Subaccount to administer recovery of \$11.3 million in costs associated with retraining eligible employees at Diablo Canyon.
13. Whether the Commission should authorize PG&E to update the Diablo Canyon capital depreciation expense revenue requirement annually to reflect the forecast annual gross additions as provided in PG&E's GRC and to true-up the previous year's authorized revenues with actual capital depreciation expense through a Tier 3 advice letter to be filed in May of each year through the remainder of DCP's licenses.

#### **E. Procedural Schedule**

PG&E proposes the following procedural schedule for this Application.

<b>Date</b>	<b>Event</b>
August 11, 2016	PG&E files Application
August 16, 2016 (expected)	Notice of Application appears in Daily Calendar
+ 30 days	Protests filed
+ 10 days	Reply to Protests filed
September 19, 2016	Prehearing Conference
October 28, 2016	ORA and Intervenor testimony served (if any)
November 30, 2016	Rebuttal testimony served (if any)
December 13-16, 2016	Hearings (if any)
January 16, 2017	Opening Briefs
February 3, 2017	Reply Briefs
May 2017	Proposed Decision
June 2017	Final Decision

#### **F. 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, was filed with the Commission on May 3, 2004 with PG&E's A.04-05-005. These articles are incorporated herein by reference.

**G. Authority to Increase Rates (Rule 3.2)**

This Application requests an increase in PG&E's rates. Therefore, PG&E is providing material in this Application that complies with Rule 3.2. This Application is not a general rate increase application, so Rule 3.2(a) applies except for subsections (4), (7), (8), and (9).

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

Attachment B of this Application presents PG&E's most current balance sheet and income statement for the period ending June 30, 2016.

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

Attachment C of this Application presents PG&E's presently effective electric rates.

**J. Statement of Proposed Increases or Changes In Rates (Rule 3.2(a)(3))**

Attachment D of this Application presents PG&E's proposed changes in electric rates.

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

A summary of recorded year 2014 revenues, expenses, rate cases and rate of return for PG&E's Electric Department was filed with the Commission on September 1, 2015, in A.15-09-001 and is incorporated by reference.

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

This Application seeks to pass through to customers increased costs associated with the retirement of Diablo Canyon and its orderly and measured replacement with energy efficiency, RPS-eligible, and other GHG-free energy resources. Specifically, PG&E is requesting that the Commission approve the increased costs described above in Section IV and to pass these costs through by using the cost allocation mechanisms and rates described in Section IV.

**M. Notice to Governmental Entities (Rule 3.2(b))**

Attachment E presents the list of governmental entities, including the State of California and cities and counties served by PG&E, to whom PG&E will mail a notice stating in general terms the proposed revenues, rate changes, and ratemaking mechanisms requested in this Application, within twenty days after filing this Application.

**N. Publication (Rule 3.2(d))**

Within twenty days after filing this Application, PG&E will publish in newspapers of general circulation in each county in its service territory a notice of filing.

**O. Notice to Customers (Rule 3.2(d))**

Within 45 days of filing this Application, PG&E will include notices with the regular bills mailed and emailed to all customers affected by the proposed changes.

**P. Safety (Rule 2.1(c))**

In D.16-01-017, the Commission adopted an amendment to Rule 2.1(c) requiring Applications to clearly state “relevant safety considerations.” This Application address two key safety issues. First, by approving the continued operation of Diablo Canyon through the end of the current licenses in 2025, and the costs associated with this operation, the Commission will ensure that Diablo Canyon continues to operate in a safe and reliable manner through the current license period. While the NRC is ultimately responsible for overseeing the safe operation of Diablo Canyon, this Application will ensure that PG&E has sufficient funds and authority to continue to operate Diablo Canyon in a safe and reliable manner. Second, this Application provides for three procurement tranches including energy efficiency and GHG-free resources. PG&E’s contracts with these resources will address safety and will provide criteria and requirements for providers to safely operate in compliance with legal and regulatory requirements.

## VII. CONCLUSION

PG&E has joined with labor, leading environmental organizations and a community-based nuclear safety advocacy group in the Joint Proposal, all united in the commitment to helping California achieve its clean energy vision. To achieve goal, PG&E respectfully requests that the Commission issue a decision in this proceeding that authorizes each of the requests specified in Section IV of this Application.

Respectfully submitted,

By: /s/ William V. Manheim  
WILLIAM V. MANHEIM

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Attorney for  
PACIFIC GAS AND ELECTRIC COMPANY

Dated: August 11, 2016



## VERIFICATION

I, Steven Malnight, say:

I am an officer of Pacific Gas and Electric Company, a corporation, and am authorized pursuant to Rule 2.1 and Rule 1.11 of the Rules of Practice and Procedure of the CPUC to make this Verification for and on behalf of said corporation, and I make this Verification for that reason. I have read the foregoing Application and I am informed and believe that the matters therein concerning Pacific Gas and Electric Company are true. I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed at San Francisco, California, this 11<sup>th</sup> day of August, 2016.

/s/ Steven Malnight  
STEVEN MALNIGHT  
Senior Vice President, Regulatory Affairs

Attachment A

Joint Proposal

**JOINT PROPOSAL OF  
PACIFIC GAS AND ELECTRIC COMPANY, FRIENDS OF THE EARTH,  
NATURAL RESOURCES DEFENSE COUNCIL, ENVIRONMENT CALIFORNIA,  
INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS LOCAL 1245,  
COALITION OF CALIFORNIA UTILITY EMPLOYEES AND ALLIANCE FOR  
NUCLEAR RESPONSIBILITY TO RETIRE DIABLO CANYON NUCLEAR POWER  
PLANT AT EXPIRATION OF THE CURRENT OPERATING LICENSES AND  
REPLACE IT WITH A PORTFOLIO OF GHG FREE RESOURCES**

Pacific Gas and Electric Company (“PG&E”) Friends of the Earth (“FOE”), Natural Resources Defense Council (“NRDC”), Environment California, International Brotherhood of Electrical Workers Local 1245 (“IBEW Local 1245”), Coalition of California Utility Employees (“CUE”) and Alliance for Nuclear Responsibility (“A4NR”) (collectively, the “Parties”) enter into this Joint Proposal governing the closure of Diablo Canyon Nuclear Power Plant (“Diablo Canyon”) at the expiration of its existing Nuclear Regulatory Commission (“NRC”) operating licenses and orderly replacement of Diablo Canyon with a greenhouse gas (“GHG”) free portfolio of energy efficiency, renewables and energy storage that includes a 55 percent Renewable Portfolio Standard commitment by 2031.

**PREAMBLE**

A. Diablo Canyon Units 1 and 2 began commercial operation in May 1985 and March 1986, respectively, and are licensed by the NRC for operation until November 2, 2024 and August 26, 2025. Each year Diablo Canyon generates about 20 percent of the annual electricity production in PG&E’s service territory and nine percent of California’s annual production. Diablo Canyon has been operated by a committed and dedicated group of employees throughout its 31 years of operations. In 2009, PG&E filed at the NRC to continue Diablo Canyon’s operations for an additional twenty years.

B. In 2015, Senate Bill (SB) 350 (2015) enacted California Public Utilities Code § 454.51 which requires the California Public Utilities Commission (“CPUC”) to “identify a diverse and balanced portfolio of resources needed to ensure a reliable electricity supply that provides optimal integration of renewable power in a cost-effective manner. SB 350 also enacted Public Utilities Code § 454.52 which requires the CPUC to establish an integrated resource planning (“IRP”) process for regulated load-serving entities that helps to achieve the State’s green house gas emission reduction target of 40 percent below 1990 levels by 2030 while continuing to deliver safe, reliable, least-cost service to customers.

C. After considering factors including, but not limited to, (i) the increase of the Renewable Portfolio Standard (“RPS”) to 50% by 2030; (ii) doubling of energy efficiency goals under SB 350; (iii) the challenge of managing overgeneration and intermittency conditions under a resource portfolio increasingly influenced by solar and wind production; (iv) the growth rate of distributed energy resources; and (v) the potential increases in the departure of PG&E’s retail load customers to Community Choice Aggregation (“CCA”), PG&E in consultation with the Parties has concluded that the most effective and efficient path forward for achieving California’s SB 350 policy goal for deep reductions of GHG emissions is to retire Diablo Canyon at the close of its current operating license period and replace it with a portfolio of GHG free resources. The Parties agree that the orderly replacement of Diablo Canyon with GHG free resources will be the reliable, flexible, and cost-effective solution for PG&E’s customers.

D. The Parties recognize that the three tranches of resource procurement proposed in this Joint Proposal are not intended to specify everything that will be needed to ensure the orderly replacement of Diablo Canyon with GHG free resources, which is the Parties’ shared commitment. The full solution will emerge over the 2024-2045 period, in consultation with

many parties and with the oversight of the CPUC, the California Independent System Operator (“CAISO”), the California Energy Commission (“CEC”), the California Air Resources Board, the Governor, and the Legislature. Additional procurement beyond that specified in the three tranches will be needed on a system wide basis to replace the output of Diablo Canyon and the Parties envision that this issue will primarily be addressed through the CPUC’s IRP process. Some of the factors influencing resource replacement in PG&E’s Northern and Central California service territory will occur outside the CPUC’s resource planning proceedings, including but not limited to Statewide adoption of enhanced energy efficiency goals, customers’ additions of distributed energy resources, potential expansion of customer loads by current and future CCAs, Energy Service Providers (“ESPs”) and other load-serving entities (“LSEs”), and reduced need for periodic curtailment of California’s increasingly abundant solar and wind resources. Given these and other uncertainties, the Parties cannot, and it would be a mistake to try to, specify all the necessary replacement procurement now; what the Parties have proposed in the Joint Proposal are significant and appropriate steps in the journey. The Parties are fully committed to supporting policies that result in replacing the output of Diablo Canyon with GHG-free resources.

## **AGREEMENT**

The Parties agree to the following terms and conditions:

### **1. Diablo Canyon License Renewal**

1.1. Under the terms of this Joint Proposal, PG&E will retire Diablo Canyon at the expiration of its current NRC operating licenses. The Parties will jointly propose and support the orderly replacement of Diablo Canyon with GHG free resources.

1.2. Recognizing that the procurement, construction and implementation of a GHG-

free portfolio of energy efficiency, renewables and energy storage replacement resources will take years, the Parties recognize that PG&E intends to operate Diablo Canyon to the end of its current NRC operating licenses which expire on November 2, 2024 (Unit 1) and August 26, 2025 (Unit 2), subject to the Unit 2 timing issue discussed in Section 6.2. This eight to nine year transition period will provide the time to begin the process to plan and replace Diablo Canyon's energy with new GHG-free replacement resources.

1.3. PG&E will immediately cease any efforts on its part to renew the Diablo Canyon operating licenses and will ask the NRC to suspend consideration of the pending Diablo Canyon license renewal application pending withdrawal with prejudice of the NRC application upon CPUC approval of the Joint Proposal Application.

1.4. Nothing in this Joint Proposal constrains or limits in any way the right of Parties to raise safety or compliance issues related to Diablo Canyon with the NRC or any other government agency, going forward.

## **2. Greenhouse Gas Free Replacement Resources**

2.1. The Parties jointly propose that Diablo Canyon be replaced with a GHG-free portfolio of energy efficiency, renewables and energy storage, as specified below. The portfolio will include a mix of investments that facilitates the achievement of broader statewide goals for deep reductions in GHG emissions, reliability, resource integration, and other long-term, cost-effective system wide benefits. The Parties propose that PG&E be authorized to procure GHG-free replacement resources in three competitive procurement tranches. The procurement provisions in section 2 of the Joint Proposal are beyond A4NR's charter and interests. A4NR takes no position on these provisions (as well as the related provisions in the second and third

sentences of Section 7.3) but agrees not to oppose Section 2 of the Joint Proposal or the implementation actions undertaken by PG&E consistent with these provisions.

In the first tranche (Section 2.2), PG&E will be authorized to obtain 2,000 gross gigawatt-hours (“GWH”) of energy efficiency savings to be implemented over the 2018 to 2024 time period. In the second tranche (Section 2.3), PG&E will be authorized to procure 2,000 GWH of GHG-free energy resources through an all-source solicitation that will commence energy deliveries or add energy efficiency programs or projects to the system in the 2025 to 2030 time period. In the third tranche (Section 2.4), with energy delivery starting in 2031, PG&E will purchase incremental RPS eligible resources through competitive solicitations to voluntarily achieve a 55% RPS and PG&E will maintain this voluntary commitment through 2045 or until superseded by action of the legislature or the CPUC.

## **2.2. Tranche 1: Energy Efficiency**

2.2.1. PG&E will obtain 2,000 gross GWH from Energy Efficiency (“EE”) installed by January 1, 2025 (measured as the sum of the first year gross GWH from EE installed in 2018 – 2024). The objective of this Tranche 1 component of the Joint Proposal is to achieve “early action” GHG savings prior to the retirement of Diablo Canyon in order to support flexibility in the timing of resource commitments in Tranche 2 and 3. PG&E may seek CPUC approval of cost-effective EE programs in excess of the 2,000 gross GWH target.

2.2.2. PG&E will issue a Request for Offers (“RFO”) for EE projects and programs on or before June 1, 2018. The RFO will request bids for new EE projects and programs to be installed in the 2018-2024 timeframe. The Tranche 1 RFO will procure EE only. The goal of the RFO is to encourage new EE offerings, not duplicate existing

programs. In order to assure cost-effectiveness, eligible bids must be below a “RPS equivalent” cost cap that will be specified in the RFO. The RFO will compare offers using the Program Administrator Cost Test. The RFO will encourage proposals that estimate savings using an existing conditions baseline and normalized meter-based savings estimates where feasible and appropriate.

2.2.3. In addition, PG&E may propose new utility EE programs for the purpose of meeting the 2,000 gross GWH savings target. New utility EE will be evaluated for cost-effectiveness using the Program Administrator Cost Test. Where feasible and appropriate, PG&E will estimate savings using an existing conditions baseline and normalized meter-based savings estimates.

2.2.4. In its CPUC Application seeking approval of the Joint Proposal (“Joint Proposal Application”), PG&E will request approval of the funding needed to meet the Tranche 1 2,000 gross GWH EE target for the years 2018-2024. The incremental revenue requirement will be recovered in PG&E’s electric public purpose program (“PPP”) rates as non-bypassable charges. PG&E will also seek authorization to issue the RFO, including a description of the RFO process, PG&E will report its progress towards meeting the 2,000 gross GWH target in its annual energy efficiency report, separate from its reports on its other programs. PG&E will hold successive RFOs and/or propose new utility programs until the 2,000 gross GWH target has been achieved.

### **2.3. Tranche 2: All Source GHG Free Energy Request For Offers**

2.3.1. No later than June 1, 2020, PG&E will issue an all-source RFO for 2,000 GWH per year of GHG-free energy resources or EE. The RFO eligibility requirements will include: i) the resource must be a source of GHG-free energy or result in energy



savings (for example, renewables, EE; energy storage, by itself, is not a source of energy and therefore is not eligible); ii) EE proposals must be for projects installed in PG&E's service territory; iii) energy deliveries must be for a minimum term of 5 years; iv) energy deliveries must commence during the period 2025-2030 and achieve the 2,000 GWH per year target during this period; v) at PG&E's discretion, EE proposals may commence prior to 2025; and vi) utility-owned generation will be eligible to compete in the RFO. In the Joint Proposal Application, PG&E will specify the RFO framework, including the least-cost, best fit evaluation criteria, RFO process and the CPUC approval process.

2.3.2. If PG&E does not obtain CPUC approval of GHG-free energy resource contracts or EE for 2,000 GWH per year as a result of the first RFO, it will hold successive RFOs until the 2,000 GWH per year target has been achieved.

2.3.3. PG&E will submit the winning bids from the RFO to the CPUC for its review and approval. At that time, PG&E may seek CPUC approval of cost-effective contracts from GHG-free resources in excess of the 2,000 GWH target.

2.3.4. The effectiveness of all GHG-free energy resource procurement contracts resulting from the RFOs will be conditioned upon CPUC approval, assurance of cost recovery and, as specified in Section 2.6, pre-approval of a cost allocation method. The incremental revenue requirement for EE programs selected in the all source RFO will be recovered in PG&E's electric PPP rates as non-bypassable charges.

## **2.4. Tranche 3: Voluntary 55 Percent RPS Commitment**

2.4.1. In each of the years beginning in 2031 and ending in 2045, PG&E commits to providing 55 percent of its total retail sales from eligible renewable energy resources, as defined in the CEC Renewables Portfolio Standard Guidebook. In

determining whether PG&E has met this commitment, all RPS requirements and limits set forth in the RPS Statute (California Public Utilities Code Section 399.11 et. seq.) will apply, as interpreted by the CEC and the CPUC (including, but not limited to, the portfolio balance requirements adopted in D.11-12-052, the banking and other compliance rules adopted in D.12-06-038, and the RPS enforcement rules adopted in D.14-12-023), except that the voluntary procurement quantity requirement in each year will be based upon the 55 percent RPS commitment. To facilitate determining whether it met this commitment, PG&E will use the RPS Compliance Report spreadsheet most recently adopted by the CPUC and the volumes reported in final, verified compliance reports for each applicable year.

2.4.2. PG&E's voluntary 55 percent RPS commitment will terminate on the earlier of 2045 or when superseded through implementation of an RPS requirement (or equivalent GHG reduction regulation) that exceeds 55 percent.

2.5. Resource Integration and Storage: The Parties recognize that the retirement of Diablo Canyon in 2025, a large baseload source of energy, will impact the efficient and reliable balancing of load and resources in PG&E's service territory. On the one hand, removing a large baseload resource during periods of peak solar production will reduce the need for periodic curtailment of RPS resources and enhance RPS resource integration during these periods. On the other hand, the retirement of Diablo Canyon may have impacts on system ramping and the need for additional energy storage. The challenges associated with resource integration, and system and local reliability, must be reviewed and resolved by the CPUC through its IRP process, in collaboration with the CAISO. The Parties will strongly support at the CPUC and before the CAISO the use of cost-effective GHG-free resource solutions, some of which may include

additional large pumped storage and utility-owned storage projects. Given the reliability and resource integration challenges described above, the Parties support a change in existing policies to allow allocation of resource costs for integration and storage through the CAISO's Transmission Access Charge ("TAC") or alternatively, through a Cost Allocation Mechanism ("CAM"), such as the CAM specified in Public Utilities Code Section 365.1(c), Section 454.51(c), or other similar CAM mechanisms approved by the CPUC.

2.6. Cost Recovery: Under the Joint Proposal, PG&E makes a commitment to procure GHG-free energy resources through 2030 and beyond for the benefit of all customers in its service territory. PG&E's commitment to replace Diablo Canyon energy with GHG-free energy resources under tranche 2 (Section 2.3) and tranche 3 (Section 2.4) is therefore conditioned upon CPUC pre-approval that any procurement PG&E makes associated with the Joint Proposal will be subject to a non-bypassable cost allocation mechanism that : 1) equitably allocates costs and benefits, such as RPS or Resource Adequacy credits, associated with the procurement among responsible load serving entities; and 2) determines the net capacity costs of such procurement consistent with the methodology for the allocation of net capacity costs described in California Public Utilities Code section 365.1(c)(2)(C). In the Joint Proposal Application, PG&E will ask the CPUC to pre-approve the non-bypassable cost allocation mechanism and the Parties will support approval of this proposal. Costs associated with EE in Tranche 1 or Tranche 2 will be recovered through the PPP on a non-bypassable basis, consistent with existing recovery mechanisms for EE costs.

### **3. Employee Retention and Severance Program**

3.1. PG&E and all of California has benefited from a well-trained, highly skilled and dedicated workforce at Diablo Canyon for its 31 years of operations. It is critical to retain these

highly qualified personnel at Diablo Canyon during the remaining years of operations. Pursuant to California Public Utilities Code Section 8330, these costs of these retention and severance programs will be recovered through the rates for Diablo Canyon decommissioning. PG&E will propose a fair and equitable employee package as part of its Joint Proposal Application.

3.2. PG&E's Employee Program contains the following elements: (i) an employee severance program; (ii) a retention program to ensure adequate staffing levels (iii) a retraining and development program to facilitate redeployment of a portion of plant personnel to the decommissioning project and elsewhere with PG&E. The severance program was previously approved by the CPUC in prior nuclear decommissioning ratemaking proceedings. PG&E estimates that the additional cost of the Employee Retention, Retraining and Development Programs is approximately \$350 million. PG&E will provide a detailed description and cost estimate of the Employee Program for CPUC approval in the Joint Proposal CPUC Application and PG&E's commitment to implement the program is conditioned upon CPUC approval. The Retention, Retraining and Development Programs are subject to bargaining with PG&E's labor unions.

#### **4. Community Impacts Mitigation Program**

4.1. Diablo Canyon is one of the largest employers, taxpayers, and charitable contributors in the San Luis Obispo County area. Diablo Canyon currently contributes approximately \$22 million in property taxes to the local community. With the retirement of Diablo Canyon, this could decline to zero by 2025. The Parties will support funding of continuing revenue streams to address community needs and concerns. PG&E will propose to compensate San Luis Obispo County for the loss of property taxes associated with the declining rate base in Diablo Canyon through a transition period ending in 2025. The payment in lieu of

taxes will be recovered through nuclear decommissioning funding. PG&E estimates that the total cost of the Community Impacts Mitigation Program is approximately \$49.5 million. As specified in Section 5.4.1, as a condition of the program, PG&E will recover the costs of the Community Impacts Mitigation Program through CPUC-approved rates for nuclear decommissioning.

## **5. Other Diablo Canyon CPUC Proceedings**

5.1. Amortization of Diablo Canyon Book Value: Under the Joint Proposal, PG&E intends to operate Diablo Canyon to the end of its currently authorized NRC license life, subject to the Unit 2 timing issue discussed in Section 6.2. Consistent with the CPUC cost recovery principles for long-life capital assets, the Parties support full cost recovery of PG&E's investment in and return on Diablo Canyon, fully amortized/depreciated to a zero book value by the end of 2024 for Unit 1 and the end of 2025 for Unit 2, subject to the Unit 2 timing issue discussed in Section 6.2. PG&E will request CPUC approval of this ratemaking approach in the Joint Proposal Application. Parties will not oppose amortization and cost recovery of Diablo Canyon costs in PG&E's 2017 General Rate Case A. 15-09-001. If there is an early shut-down of Diablo Canyon, the Parties reserve all rights to contest cost recovery of or related to any then-remaining unamortized Diablo Canyon net book costs, provided, however, if Unit 2 closes at the end of 2024 due to the timing issue described in Section 6.2, the Parties support full amortization/depreciation to a zero book value for Unit 2 by December 31, 2024.

5.2. License Renewal Costs: PG&E has incurred approximately \$50 million related to the federal and state license renewal processes, including technical and environmental assessments and permitting and licensing costs. With the exception of A4NR, the Parties agree that it was reasonable and prudent for PG&E to conduct the evaluations and incur the costs of

state and federal regulatory review in order to preserve all options, including license renewal, during a period of resource planning uncertainty that resulted in the decision reflected in the Joint Proposal. In the Joint Proposal Application, PG&E will request cost recovery of the license renewal costs. The Parties, with the exception of A4NR, support PG&E's request for full recovery of license renewal costs. A4NR reserves the right to contest recovery of the License Renewal Costs in the Joint Proposal Application.

5.3. Seismic Study Process and Costs: PG&E has been continually engaged in the evaluation of seismic conditions at Diablo Canyon since the start of operations. The decision not to proceed with license renewal does not affect this on-going commitment. Nothing in this agreement shall constrain the Parties from advocacy on issues related to seismic studies. PG&E acknowledges the substantial influence and contribution of A4NR's work in reaching the positions reflected in the Joint Proposal. Because of PG&E's decision not to proceed with license renewal, A4NR agrees to withdraw its pending objections and recommendations regarding PG&E's recovery of costs in the Diablo Canyon Seismic Studies Balancing Account in PG&E's 2013 and 2014 ERRA proceedings.

5.4. Nuclear Decommissioning: PG&E submitted a revised Diablo Canyon decommissioning study on March 1, 2016 in the CPUC Nuclear Decommissioning Triennial Proceeding ("NDCTP"). (CPUC Application 16-03-006) In the 2015 NDCTP, PG&E estimated the cost to decommission Diablo Canyon at \$3.779 billion (2014 \$). The 2015 NDCTP estimate is based on a financial model prepared by TLG Services, Inc. and does not reflect the results of an actual site-specific decommissioning study.

5.4.1. PG&E will prepare a Diablo Canyon site-specific decommissioning study and submit it to the CPUC in an application for approval no later than the date when the

2018 NDCTP will be filed. PG&E will seek authorization from the CPUC in the Joint Proposal Application to disburse funds from the Diablo Canyon decommissioning trust to fund the site specific decommissioning study. The site-specific decommissioning study will update the 2015 NDCTP forecast and incorporate the costs of (i) the Employee Program described in Section 5.3, (ii) the Community Impacts Mitigation Program in Section 4.1, (iii) a plan for expedited post-shut-down transfer of spent fuel to Dry Cask Storage as promptly as is technically feasible using the transfer schedules implemented at the San Onofre Nuclear Generating Station as a benchmark for comparison, and provided PG&E will also provide the plan to the CEC, collaborate with the CEC, and evaluate the CEC's comments and input; and (iv) a plan to continue existing emergency planning activities, including maintenance of the public warning sirens and funding of community and state wide emergency planning functions until the termination of Diablo Canyon's 10 CFR Part 50 license, subject to CPUC approval and funding in decommissioning rates. The Parties will support CPUC approval and funding of these elements of PG&E's revised Diablo Canyon decommissioning study.

5.4.2. The Parties support CPUC approval of PG&E's 2015 NDCTP decommissioning forecast and establishment of the proposed revenue requirement until such time as the CPUC reviews, approves and authorizes cost recovery for the Diablo Canyon site specific decommissioning study. A4NR reserves the right to contest PG&E's forecast and assumptions regarding spent fuel transfer to dry cask storage in the 2015 NDCTP proceeding.

## **6. Actions at Other Governmental Agencies**

6.1. State Lands Commission ("SLC"): PG&E requested that SLC issue new

submerged lands leases for the intake and discharge structures at Diablo Canyon effective from the date of issuance until Diablo Canyon ceases operations under Diablo Canyon's existing NRC operating licenses in August, 2025. Given PG&E's decision to retire Diablo Canyon in 2025, the Parties agree to jointly support the granting of the new lease to run coterminous with the existing NRC operating licenses and will submit a joint letter to the SLC to that effect. Given the particular circumstances of this matter, and subject to PG&E's commitment under the Joint Proposal that PG&E will not seek license renewal and agrees to cease operations at Unit 1 by November 2, 2024 and Unit 2 by August 26, 2025, FOE, NRDC, Environment California, IBEW Local 1245, CUE and A4NR waive any argument that the continuing operations of the plant through August 26, 2025, without any material increase or change in those operations, requires review under the California Environmental Quality Act ("CEQA"). However, A4NR reserves the right to ask the SLC to conduct a discretionary Environmental Impact Report ("EIR") under CEQA prior to making a decision on the lease extension request. In the event the SLC decides not to perform a discretionary EIR, A4NR waives all rights to appeal the SLC's decisions in connection with its approval of the short term lease extension.

6.1.1. After PG&E has completed its Diablo Canyon site-specific decommissioning study as specified in Section 5.4.1, PG&E will submit a new and separate lease application to the SLC to allow use of the intake and discharge for the period of time necessary to accommodate decommissioning activities. It is PG&E's expectation that the SLC's review of the decommissioning project, in collaboration with the Coastal Commission's review of any development under the project, will be subject to environmental review under CEQA. Nothing in the Joint Proposal affects the Parties positions regarding CEQA and/or the National Environmental Policy Act ("NEPA")



compliance regarding the decommissioning process for Diablo Canyon or any other SLC lease extension after August 26, 2025.

6.1.2. If the CPUC rejects the Joint Proposal Application and it or any other entity with the requisite legal authority directs PG&E to pursue Diablo Canyon license renewal at the NRC, PG&E will within 120 days of such final and non-appealable action submit a new lease request to the SLC premised on the change in circumstances which will be fully subject to CEQA and the Parties reserve all rights to contest such application.

6.2. State Water Resources Control Board (“State Water Board”): Given PG&E’s decision to retire Diablo Canyon, the Parties agree that compliance issues under Track 1 and Track 2 of the State Water Board’s Once Through Cooling (“OTC”) policy will have been resolved once the plants cease power generation, on the condition that the resulting water flows associated with decommissioning meet the applicable requirements of the OTC policy. PG&E will continue to pay “interim mitigation” fees through the end of PG&E’s existing NRC operating licenses in 2024 and 2025 as specified under State Water Board Resolution No. 2015-0057. These fees shall be in addition to any other fees PG&E is currently paying or will be required to pay in the future. PG&E will disclose actual intake volume data and any other data requested by the State Water Board to support the agency’s calculation of the appropriate interim mitigation fees. In order to clarify the authority of Diablo Canyon Unit 2 to operate beyond December 31, 2024 under the OTC policy, PG&E will ask the State Water Board for an amendment to the OTC policy to conform the compliance timeline table to the date of actual expiration of the Unit 1 and Unit 2 NRC operating licenses. The amendment, if approved, would confirm that Unit 2 is authorized to operate through August 26, 2025, subject to continued

payment of the interim mitigation during Diablo Canyon Unit 2's 2025 operations. PG&E will implement the Joint Proposal regardless of the State Water Board's decision on the amendment request. The Parties will review the amendment request and reserve the right to oppose it or seek additional conditions. The Parties shall be unconstrained in their ability to comment on the adequacy of the interim mitigation fee amount.

6.3. NRC License Renewal: Following final and non-appealable CPUC approval of the Joint Proposal Application, 1) PG&E will withdraw the Diablo Canyon NRC license renewal application and request that the proceeding be terminated with prejudice; 2) the Parties will support the withdrawal and termination of the Diablo Canyon NRC license renewal application; and 3) FOE will withdraw with prejudice the petition at the DC Circuit Court of Appeals and related pending hearing requests and motions in the Diablo Canyon license renewal case (*Friends of the Earth v. U.S. Nuclear Regulatory Commission*, Case No. 16-1004 (D.C. Cir. filed Jan. 8, 2016)).

6.4. NRC Dry Cask Fuel Storage: PG&E's current NRC license for its Independent Spent Fuel Storage Installation ("ISFSI") expires in 2024. PG&E expects to file a license renewal application with the NRC for the ISFSI no later than five years prior to expiration of the current license. Parties will not oppose PG&E's NRC application to renew the license for the ISFSI at Diablo Canyon, including any associated state approvals. While A4NR will not oppose continuing use of the ISFSI, A4NR reserves the right to petition and present recommendations to those state agencies whose approval is necessary to the ISFSI license renewal. This section does not restrict in any way the rights of the Parties to take a position on interim storage of spent nuclear fuel as part of the broader national discourse.

## **GENERAL PROVISIONS**

### **7. Scope and Approval**

7.1. The Parties agree that the Joint Proposal is subject to approval by the CPUC and shall be submitted for approval pursuant to Article 12 (Settlements) of the CPUC's Rules of Practice and Procedure. Within thirty days after PG&E's public announcement of the Joint Proposal, PG&E will convene a conference with notice and an opportunity to be heard to all parties as specified under CPUC Rule 12.1(b) for the purpose of discussing the Joint Proposal and inviting parties to comment on and join in a settlement agreement. No later than 30 days after the SLC has approved the new leases for Diablo Canyon as specified in Section 6.1, or as mutually agreed, PG&E shall file the Joint Proposal Application with the CPUC for approval, adoption and implementation of the Joint Proposal and thereafter will complete the process for execution and submission of an associated settlement agreement as specified in CPUC Rule 12. The Parties agree to: (i) support the Joint Proposal Application and the associated settlement agreement and use their best efforts to secure CPUC approval of the Joint Proposal and the associated settlement agreement in its entirety without modification; (ii) recommend that the CPUC approve and adopt this Joint Proposal and the associated settlement agreement in its entirety without change; and (iii) actively and mutually defend the Joint Proposal and the associated settlement agreement and the Joint Proposal Application if opposed by any other party. Unless the CPUC expressly provides otherwise, and except as otherwise expressly provided herein, such adoption does not constitute approval or precedent for any principle or issue in this or any future proceeding, consistent with CPUC Rule 12.5.

7.2. The Parties intend that CPUC adoption of this Joint Proposal will be binding on the Parties. The Parties agree that, if the CPUC fails to adopt this Joint Proposal and the

associated settlement agreement in its entirety and without modification, the Parties shall meet and confer as specified in CPUC Rule 12.4 within fifteen (15) days thereof to discuss whether the Joint Proposal and associated settlement agreement should be renegotiated with alternative terms and resubmitted to the Commission for approval. The Parties agree under such circumstances to bargain in good faith to restore the balance of benefits and burdens under the Joint Proposal. If the Parties cannot mutually agree to resolve the issues raised by the CPUC's actions, the Joint Proposal and the associated settlement agreement may be rescinded by any Party and the Parties shall be released from their obligations under the Joint Proposal. Thereafter, the Parties may pursue any action they deem appropriate.

7.3. In the Joint Proposal Application, PG&E will request that the CPUC issue a final decision approving the Joint Proposal Application no later than December 31, 2017. If the CPUC decision is not issued by December 31, 2017, PG&E, in consultation with the Parties, may delay implementation of the actions related to the procurement of GHG-free energy resources as specified in Section 2, until such CPUC approval becomes final and non-appealable. For any procurement voluntarily undertaken by PG&E prior to the time that the CPUC's approval of the Joint Proposal Application has become final and non-appealable, PG&E may condition the procurement contracts on the approval becoming final and non-appealable. PG&E's obligation to withdraw its license renewal application under Section 1.3 shall not become effective or binding until the CPUC's approval of the Joint Proposal Application has become final and non-appealable.

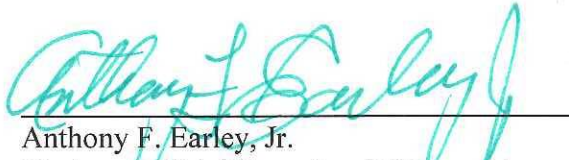
7.4. This Joint Proposal shall be governed by the laws of the State of California as to all matters, including but not limited to, matters of validity, construction, effect, performance, and remedies.

7.5. This Joint Proposal may be executed in separate counterparts by the different Parties hereto with the same effect as if all Parties had signed one and the same document.

The Parties mutually believe that, based on the terms and conditions and reservations of rights stated above, this Joint Proposal is reasonable, consistent with the law, and in the public interest.

The Parties' authorized representatives have duly executed this Joint Proposal on behalf of the Parties they represent.

PG&E CORPORATION



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Anthony F. Earley, Jr.  
Chairman, Chief Executive Officer, and  
President

Date: June 20, 2016

NATURAL RESOURCES DEFENSE  
COUNCIL

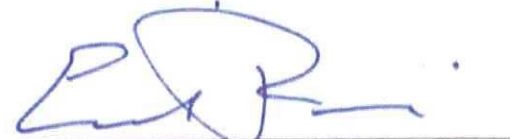


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Rhea Suh  
President

Date: June 20, 2016

FRIENDS OF THE EARTH



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Erich Pica  
President

Date: June 20, 2016

ENVIRONMENT CALIFORNIA



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Dan Jacobson  
Legislative Director

Date: June 20, 2016

INTERNATIONAL BROTHERHOOD OF  
ELECTRICAL WORKERS LOCAL 1245

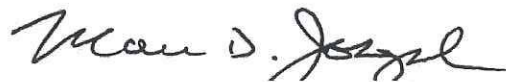


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Tom Dalzell  
Business Manager

Date: June 20, 2016

COALITION OF CALIFORNIA UTILITY  
EMPLOYEES



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Marc D. Joseph  
Attorney on behalf of Coalition Of California  
Utility Employees

Date: June 20, 2016

ALLIANCE FOR NUCLEAR  
RESPONSIBILITY

*Rochelle Becker*  
Rochelle Becker (Jun 20, 2016)

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Rochelle Becker  
Executive Director

Date: June 20, 2016

## Attachment B

Current Balance Sheet and Income Statement for the Period  
Ending June 30, 2016



**PG&E CORPORATION**  
**CONDENSED CONSOLIDATED BALANCE SHEETS**

(in millions)	(Unaudited)	
	Balance At	
	June 30, 2016	December 31, 2015
<b>ASSETS</b>		
<b>Current Assets</b>		
Cash and cash equivalents	\$ 189	\$ 123
Restricted cash	235	234
Accounts receivable:		
Customers (net of allowance for doubtful accounts of \$53 and \$54 at respective dates)	1,039	1,106
Accrued unbilled revenue	957	855
Regulatory balancing accounts	1,697	1,760
Other	567	286
Regulatory assets	464	517
Inventories:		
Gas stored underground and fuel oil	123	126
Materials and supplies	346	313
Income taxes receivable	234	155
Other	284	338
<b>Total current assets</b>	<b>6,135</b>	<b>5,813</b>
<b>Property, Plant, and Equipment</b>		
Electric	50,872	48,532
Gas	17,123	16,749
Construction work in progress	2,096	2,059
Other	2	2
<b>Total property, plant, and equipment</b>	<b>70,093</b>	<b>67,342</b>
Accumulated depreciation	(21,496)	(20,619)
<b>Net property, plant, and equipment</b>	<b>48,597</b>	<b>46,723</b>
<b>Other Noncurrent Assets</b>		
Regulatory assets	7,315	7,029
Nuclear decommissioning trusts	2,546	2,470
Income taxes receivable	147	135
Other	1,187	1,064
<b>Total other noncurrent assets</b>	<b>11,195</b>	<b>10,698</b>
<b>TOTAL ASSETS</b>	<b>\$ 65,927</b>	<b>\$ 63,234</b>

See accompanying Notes to the Condensed Consolidated Financial Statements.

**PG&E CORPORATION**  
**CONDENSED CONSOLIDATED BALANCE SHEETS**

(in millions, except share amounts)	(Unaudited)	
	Balance At	
	June 30, 2016	December 31, 2015
<b>LIABILITIES AND EQUITY</b>		
<b>Current Liabilities</b>		
Short-term borrowings	\$ 1,529	\$ 1,019
Long-term debt, classified as current	160	160
Accounts payable:		
Trade creditors	1,313	1,414
Regulatory balancing accounts	654	715
Other	527	398
Disputed claims and customer refunds	461	454
Interest payable	214	206
Other	1,793	1,997
<b>Total current liabilities</b>	<b>6,651</b>	<b>6,363</b>
<b>Noncurrent Liabilities</b>		
Long-term debt	16,525	15,925
Regulatory liabilities	6,547	6,321
Pension and other postretirement benefits	2,631	2,622
Asset retirement obligations	4,612	3,643
Deferred income taxes	9,556	9,206
Other	2,407	2,326
<b>Total noncurrent liabilities</b>	<b>42,278</b>	<b>40,043</b>
<b>Commitments and Contingencies (Note 9)</b>		
<b>Equity</b>		
<b>Shareholders' Equity</b>		
Common stock, no par value, authorized 800,000,000 shares; 498,143,219 and 492,025,443 shares outstanding at respective dates	11,616	11,282
Reinvested earnings	5,137	5,301
Accumulated other comprehensive loss	(7)	(7)
<b>Total shareholders' equity</b>	<b>16,746</b>	<b>16,576</b>
<b>Noncontrolling Interest - Preferred Stock of Subsidiary</b>	<b>252</b>	<b>252</b>
<b>Total equity</b>	<b>16,998</b>	<b>16,828</b>
<b>TOTAL LIABILITIES AND EQUITY</b>	<b>\$ 65,927</b>	<b>\$ 63,234</b>

See accompanying Notes to the Condensed Consolidated Financial Statements.

## Attachment C

### PG&E's Presently Effective Electric Rates

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

RESIDENTIAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-1			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	ES UNIT DISCOUNT (\$/UNIT/MONTH)	\$1.54	\$1.54	3
4	ET UNIT DISCOUNT (\$/UNIT/MONTH)	\$5.48	\$5.48	4
5	ES/ET MINIMUM RATE LIMITER (\$/KWH)	\$0.04892	\$0.04892	5
6	ENERGY (\$/KWH)			6
7	TIER 1	\$0.18205	\$0.18205	7
8	TIER 2	\$0.24081	\$0.24081	8
9	TIER 3	\$0.24081	\$0.24081	9
10	TIER 4	\$0.39984	\$0.39984	10
11	TIER 5	\$0.39984	\$0.39984	11
12	SCHEDULE EL-1 (CARE)			12
13	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	13
14	ENERGY (\$/KWH)			14
15	TIER 1	\$0.11929	\$0.11929	15
16	TIER 2	\$0.14720	\$0.14720	16
17	TIER 3	\$0.21661	\$0.21661	17

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

RESIDENTIAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-6 / EM-TOU			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-6 METER CHARGE (\$/MONTH)	\$7.70	\$7.70	3
4	ON-PEAK ENERGY (\$/KWH)			4
5	TIER 1	\$0.34159		5
6	TIER 2	\$0.40035		6
7	TIER 3	\$0.40035		7
8	TIER 4	\$0.55848		8
9	TIER 5	\$0.55848		9
10	PART-PEAK ENERGY (\$/KWH)			10
11	TIER 1	\$0.22632	\$0.17071	11
12	TIER 2	\$0.28508	\$0.22947	12
13	TIER 3	\$0.28508	\$0.22947	13
14	TIER 4	\$0.44321	\$0.38760	14
15	TIER 5	\$0.44321	\$0.38760	15
16	OFF-PEAK ENERGY (\$/KWH)			16
17	TIER 1	\$0.14954	\$0.15388	17
18	TIER 2	\$0.20831	\$0.21264	18
19	TIER 3	\$0.20831	\$0.21264	19
20	TIER 4	\$0.36643	\$0.37077	20
21	TIER 5	\$0.36643	\$0.37077	21
22	SCHEDULE EL-6 / EML-TOU			22
23	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	23
24	EL-6 METER CHARGE(\$/MONTH)	\$6.16	\$6.16	24
25	ON-PEAK ENERGY (\$/KWH)			25
26	TIER 1	\$0.23609		26
27	TIER 2	\$0.26508		27
28	TIER 3	\$0.38670		28
29	PART-PEAK ENERGY (\$/KWH)			29
30	TIER 1	\$0.15159	\$0.11083	30
31	TIER 2	\$0.18058	\$0.13980	31
32	TIER 3	\$0.26364	\$0.20428	32
33	OFF-PEAK ENERGY (\$/KWH)			33
34	TIER 1	\$0.09531	\$0.09848	34
35	TIER 2	\$0.12430	\$0.12746	35
36	TIER 3	\$0.18168	\$0.18630	36

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

RESIDENTIAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-7			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	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	\$0.37797	\$0.16347	6
7	TIER 2	\$0.43736	\$0.22285	7
8	TIER 3	\$0.43736	\$0.22285	8
9	TIER 4	\$0.59638	\$0.38188	9
10	TIER 5	\$0.59638	\$0.38188	10
11	OFF-PEAK ENERGY (\$/KWH)			11
12	TIER 1	\$0.12982	\$0.13343	12
13	TIER 2	\$0.18920	\$0.19281	13
14	TIER 3	\$0.18920	\$0.19281	14
15	TIER 4	\$0.34823	\$0.35184	15
16	TIER 5	\$0.34823	\$0.35184	16
17	SCHEDULE EL-7			17
18	MINIMUM BILL (\$/MONTH)	\$5.00	\$5.00	18
19	EL-7 METER CHARGE(\$/MONTH)	\$0.00	\$0.00	19
20	ON-PEAK ENERGY (\$/KWH)			20
21	TIER 1	\$0.30981	\$0.12544	21
22	TIER 2	\$0.34093	\$0.15656	22
23	TIER 3	\$0.49407	\$0.22557	23
24	OFF-PEAK ENERGY (\$/KWH)			24
25	TIER 1	\$0.09652	\$0.09963	25
26	TIER 2	\$0.12764	\$0.13075	26
27	TIER 3	\$0.18345	\$0.18798	27
28	SCHEDULE E-8			28
29	CUSTOMER CHARGE (\$/MONTH)	\$12.53	\$12.53	29
30	ENERGY (\$/KWH)			30
31	TIER 1	\$0.18657	\$0.13594	31
32	TIER 2	\$0.22668	\$0.17605	32
33	TIER 3	\$0.22668	\$0.17605	33
34	TIER 4	\$0.38571	\$0.33507	34
35	TIER 5	\$0.38571	\$0.33507	35
36	SCHEDULE EL-8 (CARE)			36
37	CUSTOMER CHARGE (\$/MONTH)	\$10.02	\$10.02	37
38	ENERGY CHARGE (\$/KWH)			38
39	TIER 1	\$0.12247	\$0.08755	39
40	TIER 2	\$0.13753	\$0.10261	40
41	TIER 3	\$0.22123	\$0.17038	41

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

RESIDENTIAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-9: RATE A			1
2	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	2
3	E-9 METER CHARGE (\$/MONTH)	\$6.66	\$6.66	3
4	ON-PEAK ENERGY (\$/KWH)			4
5	TIER 1	\$0.36593		5
6	TIER 2	\$0.42533		6
7	TIER 3	\$0.42533		7
8	TIER 4	\$0.61707		8
9	TIER 5	\$0.61707		9
10	PART-PEAK ENERGY (\$/KWH)			10
11	TIER 1	\$0.15056	\$0.15044	11
12	TIER 2	\$0.20994	\$0.20980	12
13	TIER 3	\$0.20994	\$0.20980	13
14	TIER 4	\$0.40169	\$0.40156	14
15	TIER 5	\$0.40169	\$0.40156	15
16	OFF-PEAK ENERGY (\$/KWH)			16
17	TIER 1	\$0.08550	\$0.09544	17
18	TIER 2	\$0.14488	\$0.15481	18
19	TIER 3	\$0.14488	\$0.15481	19
20	TIER 4	\$0.25117	\$0.25117	20
21	TIER 5	\$0.25117	\$0.25117	21
22	SCHEDULE E-9: RATE B			22
23	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	23
24	E-9 METER CHARGE (\$/MONTH)	\$6.66	\$6.66	24
25	ON-PEAK ENERGY (\$/KWH)			25
26	TIER 1	\$0.36112		26
27	TIER 2	\$0.42052		27
28	TIER 3	\$0.42052		28
29	TIER 4	\$0.61226		29
30	TIER 5	\$0.61226		30
31	PART-PEAK ENERGY (\$/KWH)			31
32	TIER 1	\$0.14575	\$0.14617	32
33	TIER 2	\$0.20513	\$0.20553	33
34	TIER 3	\$0.20513	\$0.20553	34
35	TIER 4	\$0.39688	\$0.39730	35
36	TIER 5	\$0.39688	\$0.39730	36
37	OFF-PEAK ENERGY (\$/KWH)			37
38	TIER 1	\$0.09330	\$0.10244	38
39	TIER 2	\$0.15269	\$0.16181	39
40	TIER 3	\$0.15269	\$0.16181	40
41	TIER 4	\$0.34443	\$0.35358	41
42	TIER 5	\$0.34443	\$0.35358	42
43	SCHEDULE EV: RATE A			43
44	MINIMUM BILL (\$/MONTH)	\$10.00	\$10.00	44
45	ON-PEAK ENERGY (\$/KWH)	\$0.44385	\$0.31210	45
46	PART-PEAK ENERGY (\$/KWH)	\$0.24148	\$0.19034	46
47	OFF-PEAK ENERGY (\$/KWH)	\$0.11465	\$0.11740	47
48	SCHEDULE EV: RATE B			48
49	EV-B METER CHARGE (\$/MONTH)	\$1.50	\$1.50	49
50	ON-PEAK ENERGY (\$/KWH)	\$0.43738	\$0.30521	50
51	PART-PEAK ENERGY (\$/KWH)	\$0.23824	\$0.18690	51
52	OFF-PEAK ENERGY (\$/KWH)	\$0.11418	\$0.11691	52

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

SMALL L&P RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE A-1			1
2	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	2
3	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	3
4	ENERGY (\$/KWH)	\$0.24265	\$0.18767	4
5	SCHEDULE A-1 TOU			5
6	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	6
7	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	7
8	ENERGY (\$/KWH)			8
9	ON-PEAK	\$0.25797		9
10	PART-PEAK	\$0.23431	\$0.21471	10
11	OFF-PEAK ENERGY	\$0.20696	\$0.19380	11
12	SCHEDULE A-6			12
13	CUSTOMER CHARGE: SINGLE-PHASE (\$/MO.)	\$10.00	\$10.00	13
14	CUSTOMER CHARGE: POLYPHASE (\$/MO.)	\$20.00	\$20.00	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	\$0.54891		19
20	PART-PEAK	\$0.25208	\$0.19833	20
21	OFF-PEAK ENERGY	\$0.18049	\$0.18009	21
22	SCHEDULE A-15			22
23	CUSTOMER CHARGE (\$/MONTH)	\$10.00	\$10.00	23
24	FACILITY CHARGE (\$/MONTH)	\$25.00	\$25.00	24
25	ENERGY (\$/KWH)	\$0.24265	\$0.18767	25
26	SCHEDULE TC-1			26
27	CUSTOMER CHARGE (\$/MONTH)	\$10.00	\$10.00	27
28	ENERGY (\$/KWH)	\$0.18010	\$0.18010	28



PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

MEDIUM L&P RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE A-10			1
2	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MO)			3
4	SECONDARY VOLTAGE	\$17.83	\$10.46	4
5	PRIMARY VOLTAGE	\$16.92	\$10.76	5
6	TRANSMISSION VOLTAGE	\$11.06	\$7.74	6
7	ENERGY CHARGE (\$/KWH)			7
8	SECONDARY VOLTAGE	\$0.15983	\$0.12300	8
9	PRIMARY VOLTAGE	\$0.14998	\$0.11931	9
10	TRANSMISSION VOLTAGE	\$0.11603	\$0.09776	10
11	SCHEDULE A-10 TOU			11
12	CUSTOMER CHARGE (\$/MONTH)	\$140.00	\$140.00	12
13	MAXIMUM DEMAND CHARGE (\$/KW/MO)			13
14	SECONDARY VOLTAGE	\$17.83	\$10.46	14
15	PRIMARY VOLTAGE	\$16.92	\$10.76	15
16	TRANSMISSION VOLTAGE	\$11.06	\$7.74	16
17	ENERGY CHARGE (\$/KWH)			17
18	SECONDARY			18
19	ON PEAK	\$0.21468		19
20	PARTIAL PEAK	\$0.15955	\$0.13088	20
21	OFF-PEAK	\$0.13148	\$0.11382	21
22	PRIMARY			22
23	ON PEAK	\$0.20289		23
24	PARTIAL PEAK	\$0.15233	\$0.12898	24
25	OFF-PEAK	\$0.12570	\$0.11310	25
26	TRANSMISSION			26
27	ON PEAK	\$0.16584		27
28	PARTIAL PEAK	\$0.11896	\$0.10717	28
29	OFF-PEAK	\$0.09366	\$0.09260	29

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

E-19 FIRM RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-19 T FIRM			1
2	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$1,800.00	\$1,800.00	2
3	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$1,800.00	\$1,800.00	3
4	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	4
5	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	5
6	DEMAND CHARGE (\$/KW/MONTH)			6
7	ON-PEAK	\$12.27		7
8	PARTIAL PEAK	\$3.08	\$0.00	8
9	MAXIMUM	\$8.62	\$8.62	9
10	ENERGY CHARGE (\$/KWH)			10
11	ON-PEAK	\$0.10134		11
12	PARTIAL-PEAK	\$0.08890	\$0.09085	12
13	OFF-PEAK	\$0.07242	\$0.07820	13
14	SCHEDULE E-19 P FIRM			14
15	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$1,000.00	\$1,000.00	15
16	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$1,000.00	\$1,000.00	16
17	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	17
18	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	18
19	DEMAND CHARGE (\$/KW/MONTH)			19
20	ON-PEAK	\$16.67		20
21	PARTIAL PEAK	\$4.56	\$0.15	21
22	MAXIMUM	\$14.05	\$14.05	22
23	ENERGY CHARGE (\$/KWH)			23
24	ON-PEAK	\$0.13716		24
25	PARTIAL-PEAK	\$0.09920	\$0.09407	25
26	OFF-PEAK	\$0.07479	\$0.08082	26
27	SCHEDULE E-19 S FIRM			27
28	CUSTOMER CHARGE > 500 KW (\$/MONTH)	\$600.00	\$600.00	28
29	CUSTOMER CHARGE < 500 KW (\$/MONTH)	\$600.00	\$600.00	29
30	TOU METER CHARGE - RATES V & X (\$/MONTH)	\$140.00	\$140.00	30
31	TOU METER CHARGE - RATE W (\$/MONTH)	\$140.00	\$140.00	31
32	DEMAND CHARGE (\$/KW/MONTH)			32
33	ON-PEAK	\$18.74		33
34	PARTIAL PEAK	\$5.22	\$0.13	34
35	MAXIMUM	\$17.32	\$17.32	35
36	ENERGY CHARGE (\$/KWH)			36
37	ON-PEAK	\$0.14726		37
38	PARTIAL-PEAK	\$0.10714	\$0.10165	38
39	OFF-PEAK	\$0.08057	\$0.08717	39

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

E-20 FIRM RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-20 T FIRM			1
2	CUSTOMER CHARGE (\$/MONTH)-FIRM	\$2,000.00	\$2,000.00	2
3	DEMAND CHARGE (\$/KW/MONTH)			3
4	ON-PEAK	\$15.75		4
5	PARTIAL PEAK	\$3.75	\$0.00	5
6	MAXIMUM	\$7.39	\$7.39	6
7	ENERGY CHARGE (\$/KWH)			7
8	ON-PEAK	\$0.09672		8
9	PARTIAL-PEAK	\$0.08459	\$0.08650	9
10	OFF-PEAK	\$0.06854	\$0.07417	10
11	SCHEDULE E-20 P FIRM			11
12	CUSTOMER CHARGE (\$/MONTH)	\$1,500.00	\$1,500.00	12
13	DEMAND CHARGE (\$/KW/MONTH)			13
14	ON-PEAK	\$19.34		14
15	PARTIAL PEAK	\$5.16	\$0.13	15
16	MAXIMUM	\$14.44	\$14.44	16
17	ENERGY CHARGE (\$/KWH)			17
18	ON-PEAK	\$0.13945		18
19	PARTIAL-PEAK	\$0.09920	\$0.09390	19
20	OFF-PEAK	\$0.07445	\$0.08053	20
21	SCHEDULE E-20 S FIRM			21
22	CUSTOMER CHARGE (\$/MONTH)	\$1,200.00	\$1,200.00	22
23	DEMAND CHARGE (\$/KW/MONTH)			23
24	ON-PEAK	\$18.14		24
25	PARTIAL PEAK	\$5.04	\$0.05	25
26	MAXIMUM	\$16.88	\$16.88	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.13793		28
29	PARTIAL-PEAK	\$0.10141	\$0.09610	29
30	OFF-PEAK	\$0.07634	\$0.08252	30

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

OIL AND GAS EXTRACTION RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE E-37			1
2	CUSTOMER CHARGE (\$/MONTH)	\$36.36	\$36.36	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)	\$9.91		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MO)			6
7	SECONDARY VOLTAGE	\$15.69	\$6.16	7
8	PRIMARY VOLTAGE DISCOUNT	\$1.70	\$0.19	8
9	TRANSMISSION VOLTAGE DISCOUNT	\$11.78	\$5.30	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.20334		11
12	PART-PEAK		\$0.10591	12
13	OFF-PEAK	\$0.08613	\$0.07796	13

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

STANDBY RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE S - TRANSMISSION			1
2	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$1.46	\$1.46	2
3	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$1.46	\$1.46	3
4	ENERGY (\$/KWH)			4
5	ON-PEAK	\$0.12346		5
6	PART-PEAK	\$0.11049	\$0.11253	6
7	OFF-PEAK	\$0.09332	\$0.09935	7
8	SCHEDULE S - PRIMARY			8
9	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$5.38	\$5.38	9
10	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$5.38	\$5.38	10
11	ENERGY (\$/KWH)			11
12	ON-PEAK	\$0.62712		12
13	PART-PEAK	\$0.30639	\$0.17373	13
14	OFF-PEAK	\$0.14549	\$0.15261	14
15	SCHEDULE S - SECONDARY			15
16	CONTRACT CAPACITY CHARGE (\$/KW/MO.)	\$5.38	\$5.38	16
17	EFFECTIVE RESERVATION CHARGE (\$/KW/MO.)	\$5.38	\$5.38	17
18	ENERGY (\$/KWH)			18
19	ON-PEAK	\$0.62615		19
20	PART-PEAK	\$0.30542	\$0.17276	20
21	OFF-PEAK	\$0.14452	\$0.15164	21

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

STANDBY RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE S CUSTOMER AND METER CHARGES			1
2	RESIDENTIAL			2
3	CUSTOMER CHARGE (\$/MO)	\$5.00	\$5.00	3
4	TOU METER CHARGE (\$/MO)	\$3.90	\$3.90	4
5	AGRICULTURAL			5
6	CUSTOMER CHARGE (\$/MO)	\$27.60	\$27.60	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)	\$20.00	\$20.00	9
10	POLY PHASE CUSTOMER CHARGE (\$/MO)	\$30.00	\$30.00	10
11	METER CHARGE (\$/MO)	\$6.12	\$6.12	11
12	MEDIUM LIGHT AND POWER (>50 kW, <500 kW)			12
13	CUSTOMER CHARGE (\$/MO)	\$140.00	\$140.00	13
14	METER CHARGE (\$/MO)	\$5.40	\$5.40	14
15	MEDIUM LIGHT AND POWER (>500kW)			15
16	TRANSMISSION CUSTOMER CHARGE (\$/MO)	\$1,800.00	\$1,800.00	16
17	PRIMARY CUSTOMER CHARGE (\$/MO)	\$1,000.00	\$1,000.00	17
18	SECONDARY CUSTOMER CHARGE (\$/MO)	\$600.00	\$600.00	18
19	LARGE LIGHT AND POWER (> 1000 kW)			19
20	TRANSMISSION CUSTOMER CHARGE (\$/MO)	\$2,000.00	\$2,000.00	20
21	PRIMARY CUSTOMER CHARGE (\$/MO)	\$1,500.00	\$1,500.00	21
22	SECONDARY CUSTOMER CHARGE (\$/MO)	\$1,200.00	\$1,200.00	22
23	REDUCED CUSTOMER CHARGES (\$/MO)			23
24	SMALL LIGHT AND PWR ( < 50 kW)	\$7.75	\$7.75	24
25	MED LIGHT AND PWR (Res Capacity >50 kW and <500 kW)	\$28.91	\$28.91	25
26	MED LIGHT AND PWR (Res Capacity > 500 kW and < 1000 kW)	\$52.00	\$52.00	26

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

AGRICULTURAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE AG-1A			1
2	CUSTOMER CHARGE (\$/MONTH)	\$17.47	\$17.47	2
3	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$8.23	\$1.58	3
4	ENERGY CHARGE (\$/KWH)	\$0.27872	\$0.21290	4
5	SCHEDULE AG-RA			5
6	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	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)	\$7.29	\$1.21	9
10	ENERGY (\$/KWH)			10
11	ON-PEAK	\$0.52662		11
12	PART-PEAK		\$0.18503	12
13	OFF-PEAK	\$0.18170	\$0.15068	13
14	SCHEDULE AG-VA			14
15	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	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)	\$7.32	\$1.25	18
19	ENERGY (\$/KWH)			19
20	ON-PEAK	\$0.49248		20
21	PART-PEAK		\$0.18645	21
22	OFF-PEAK	\$0.17860	\$0.15133	22
23	SCHEDULE AG-4A			23
24	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	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)	\$8.34	\$1.27	27
28	ENERGY (\$/KWH)			28
29	ON-PEAK	\$0.44536		29
30	PART-PEAK		\$0.19826	30
31	OFF-PEAK	\$0.19146	\$0.15925	31
32	SCHEDULE AG-5A			32
33	CUSTOMER CHARGE - RATES A & D (\$/MONTH)	\$17.47	\$17.47	33
34	METER CHARGE - RATE A (\$/MONTH)	\$6.80	\$6.80	34
35	METER CHARGE - RATE D (\$/MONTH)	\$2.00	\$2.00	35
36	CONNECTED LOAD CHARGE (\$/KW/MONTH)	\$12.00	\$2.26	36
37	ENERGY (\$/KWH)			37
38	ON-PEAK	\$0.30423		38
39	PART-PEAK		\$0.16110	39
40	OFF-PEAK	\$0.15267	\$0.13536	40

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016  
AGRICULTURAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE AG-1B			1
2	CUSTOMER CHARGE (\$/MONTH)	\$23.23	\$23.23	2
3	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			3
4	SECONDARY VOLTAGE	\$11.97	\$2.43	4
5	PRIMARY VOLTAGE DISCOUNT	\$1.22	\$0.34	5
6	ENERGY CHARGE (\$/KWH)	\$0.23604	\$0.18213	6
7	SCHEDULE AG-RB			7
8	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	8
9	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	9
10	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	10
11	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$3.71		11
12	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			12
13	SECONDARY VOLTAGE	\$9.85	\$2.00	13
14	PRIMARY VOLTAGE DISCOUNT	\$0.83	\$0.32	14
15	ENERGY CHARGE (\$/KWH)			15
16	ON-PEAK	\$0.47323		16
17	PART-PEAK		\$0.16019	17
18	OFF-PEAK	\$0.17100	\$0.13128	18
19	SCHEDULE AG-VB			19
20	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	20
21	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	21
22	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	22
23	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$3.67		23
24	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			24
25	SECONDARY VOLTAGE	\$9.92	\$1.98	25
26	PRIMARY VOLTAGE DISCOUNT	\$0.89	\$0.31	26
27	ENERGY CHARGE (\$/KWH)			27
28	ON-PEAK	\$0.43810		28
29	PART-PEAK		\$0.15730	29
30	OFF-PEAK	\$0.16590	\$0.12940	30



PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

AGRICULTURAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE AG-4B			1
2	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$23.23	\$23.23	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)	\$5.21		5
6	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			6
7	SECONDARY VOLTAGE	\$9.95	\$2.32	7
8	PRIMARY VOLTAGE DISCOUNT	\$1.03	\$0.36	8
9	ENERGY CHARGE (\$/KWH)			9
10	ON-PEAK	\$0.28781		10
11	PART-PEAK		\$0.15277	11
12	OFF-PEAK	\$0.15232	\$0.12776	12
13	SCHEDULE AG-4C			13
14	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$65.44	\$65.44	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	\$12.25		18
19	PART-PEAK	\$2.34	\$0.57	19
20	MAXIMUM	\$5.17	\$2.50	20
21	PRIMARY VOLTAGE DISCOUNT	\$1.32		21
22	ON-PEAK		\$0.32	22
23	MAXIMUM			23
24	TRANSMISSION VOLTAGE DISCOUNT			24
25	ON-PEAK	\$6.47		25
26	PART-PEAK	\$1.34	\$0.57	26
27	MAXIMUM	\$0.25	\$1.73	27
28	ENERGY CHARGE (\$/KWH)			28
29	ON-PEAK	\$0.26173		29
30	PART-PEAK	\$0.15145	\$0.12568	30
31	OFF-PEAK	\$0.11296	\$0.10851	31
32	SCHEDULE AG-5B			32
33	CUSTOMER CHARGE - RATES B & E (\$/MONTH)	\$36.36	\$36.36	33
34	METER CHARGE - RATE B (\$/MONTH)	\$6.00	\$6.00	34
35	METER CHARGE - RATE E (\$/MONTH)	\$1.20	\$1.20	35
36	ON-PEAK DEMAND CHARGE (\$/KW/MONTH)	\$9.91		36
37	MAXIMUM DEMAND CHARGE (\$/KW/MONTH)			37
38	SECONDARY VOLTAGE	\$15.69	\$6.16	38
39	PRIMARY VOLTAGE DISCOUNT	\$1.70	\$0.19	39
40	TRANSMISSION VOLTAGE DISCOUNT	\$11.78	\$5.30	40
41	ENERGY CHARGE (\$/KWH)			41
42	ON-PEAK	\$0.20334		42
43	PART-PEAK		\$0.10591	43
44	OFF-PEAK	\$0.08613	\$0.07796	44

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

AGRICULTURAL RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE AG-5C			1
2	CUSTOMER CHARGE - RATES C & F (\$/MONTH)	\$161.58	\$161.58	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	\$16.67		6
7	PART-PEAK	\$3.46	\$0.92	7
8	MAXIMUM	\$6.16	\$3.84	8
9	PRIMARY VOLTAGE DISCOUNT			9
10	ON-PEAK	\$2.47		10
11	MAXIMUM		\$0.26	11
12	TRANSMISSION VOLTAGE DISCOUNT			12
13	ON-PEAK	\$10.46		13
14	PART-PEAK	\$1.56	\$0.92	14
15	MAXIMUM	\$3.50	\$2.52	15
16	ENERGY CHARGE (\$/KWH)			16
17	ON-PEAK	\$0.15526		17
18	PART-PEAK	\$0.10553	\$0.09257	18
19	OFF-PEAK	\$0.08702	\$0.08416	19
20	SCHEDULE AG-ICE			20
21	CUSTOMER CHARGE (\$/MONTH)	\$40.00	\$40.00	21
22	METER CHARGE (\$/MONTH)	\$6.00	\$6.00	22
23	ON-PEAK DEMAND CHARGE (\$/KW/MO)	\$5.52		23
24	MAXIMUM DEMAND CHARGE (\$/KW/MO)			24
25	SECONDARY	\$6.59	\$0.00	25
26	PRIMARY	\$5.60	\$0.00	26
27	TRANSMISSION	\$2.40	\$0.00	27
28	ENERGY CHARGE (\$/KWH)			28
29	ON-PEAK	\$0.14879		29
30	PART-PEAK	\$0.11606	\$0.11903	30
31	OFF-PEAK	\$0.05952	\$0.05952	31

PACIFIC GAS AND ELECTRIC COMPANY  
PRESENT ELECTRIC RATES  
AS OF AUGUST 1, 2016

STREETLIGHTING RATES

LINE NO.		8/1/16 RATES SUMMER	8/1/16 RATES WINTER	LINE NO.
1	SCHEDULE LS-1			1
2	ENERGY CHARGE (\$/KWH)	\$0.15707	\$0.15707	2
3	SCHEDULE LS-2			3
4	ENERGY CHARGE (\$/KWH)	\$0.15707	\$0.15707	4
5	SCHEDULE LS-3			5
6	SERVICE CHARGE (\$/METER/MO.)	\$6.00	\$6.00	6
7	ENERGY CHARGE (\$/KWH)	\$0.15707	\$0.15707	7
8	SCHEDULE OL-1			8
9	ENERGY CHARGE (\$/KWH)	\$0.16404	\$0.16404	9

Pacific Gas & Electric Company															
Rate Change															
8/1/2016															
ELECTRIC RATES FOR SCHEDULES LS-1, LS-2 AND OL-1															
NOMINAL LAMP RATINGS															
LAMP WATTS	AVERAGE		INITIAL LUMENS	ALL NIGHT RATES PER LAMP PER MONTH										HALF-HOUR ADJ.	
	kWhr PER MONTH			SCHEDULE LS-2			SCHEDULE LS-1							LS-1 & LS-2	OL-1
				A	C		A	B	C	D	E	F	OL-1		
MERCURY VAPOR LAMPS															
40	18	1,300		\$3.033	--		--	--	--	--	--	--	--	\$0.129	--
50	22	1,650		\$3.662	--		--	--	--	--	--	--	--	\$0.157	--
100	40	3,500		\$6.489	\$9.740		\$12.749	--	\$12.352	--	--	--	--	\$0.286	--
175	68	7,500		\$10.887	\$14.138		\$17.147	\$16.548	\$16.750	--	\$19.951	\$18.562	\$17.621	\$0.486	\$0.507
250	97	11,000		\$15.442	\$18.693		\$21.702	\$21.103	\$21.305	--	--	--	--	\$0.693	--
400	152	21,000		\$24.081	\$27.332		\$30.341	\$29.742	\$29.944	--	--	--	\$31.400	\$1.085	\$1.133
700	266	37,000		\$41.987	\$45.238		\$48.247	\$47.648	\$47.850	--	--	--	--	\$1.899	--
1,000	377	57,000		\$59.421	\$62.672		--	--	--	--	--	--	--	\$2.692	--
INCANDESCENT LAMPS															
58	20	600		\$3.347	--		\$9.607	--	--	--	--	--	--	\$0.143	--
92	31	1,000		\$5.075	\$8.326		\$11.335	--	--	--	--	--	--	\$0.221	--
189	65	2,500		\$10.416	\$13.667		\$16.676	\$16.077	--	--	--	--	--	\$0.464	--
295	101	4,000		\$16.070	\$19.321		\$22.330	\$21.731	--	--	--	--	--	\$0.721	--
405	139	6,000		\$22.039	\$25.290		\$28.299	--	--	--	--	--	--	\$0.992	--
620	212	10,000		\$33.505	\$36.756		--	--	--	--	--	--	--	\$1.514	--
860	294	15,000		\$46.385	--		--	--	--	--	--	--	--	\$2.099	--
LOW PRESSURE SODIUM VAPOR LAMPS															
35	21	4,800		\$3.504	--		--	--	--	--	--	--	--	\$0.150	--
55	29	8,000		\$4.761	--		--	--	--	--	--	--	--	\$0.207	--
90	45	13,500		\$7.274	--		--	--	--	--	--	--	--	\$0.321	--
135	62	21,500		\$9.944	--		--	--	--	--	--	--	--	\$0.443	--
180	78	33,000		\$12.457	--		--	--	--	--	--	--	--	\$0.557	--

Pacific Gas & Electric Company																	
Rate Change																	
8/1/2016																	
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						OL-1		LS-1 & LS-2	OL-1		
			A	C		A	B	C	D	E	F						
HIGH PRESSURE SODIUM VAPOR LAMPS AT 120 VOLTS																	
35	15	2,150	\$2.562	--	--	--	--	--	--	--	--	--	--	\$0.107	--		
50	21	3,800	\$3.504	--	--	--	--	--	--	--	--	--	--	\$0.150	--		
70	29	5,800	\$4.761	\$8.012	\$11.021	--	\$10.624	\$13.451	\$13.825	\$12.436	\$11.223	\$0.207	\$0.216				
100	41	9,500	\$6.646	\$9.897	\$12.906	--	\$12.509	\$15.336	\$15.710	\$14.321	\$13.192	\$0.293	\$0.306				
150	60	16,000	\$9.630	\$12.881	\$15.890	--	\$15.493	\$18.320	\$18.694	\$17.305	--	\$0.428	--				
200	80	22,000	\$12.772	--	\$19.032	--	\$18.635	\$21.462	\$21.836	\$20.447	--	\$0.571	--				
250	100	26,000	\$15.913	--	\$22.173	--	\$21.776	\$24.603	\$24.977	\$23.588	--	\$0.714	--				
400	154	46,000	\$24.395	--	\$30.655	--	\$30.258	\$33.085	\$33.459	\$32.070	--	\$1.100	--				
AT 240 VOLTS																	
50	24	3,800	\$3.976	--	--	--	--	--	--	--	--	--	\$0.171	--			
70	34	5,800	\$5.546	\$8.797	\$11.806	--	--	\$14.236	--	--	--	--	\$0.243	--			
100	47	9,500	\$7.588	\$10.839	\$13.848	--	\$13.451	\$16.278	\$16.652	\$15.263	--	\$0.336	--				
150	69	16,000	\$11.044	\$14.295	\$17.304	--	\$16.907	\$19.734	\$20.108	\$18.719	--	\$0.493	--				
200	81	22,000	\$12.929	\$16.180	\$19.189	--	\$18.792	\$21.619	\$21.993	\$20.604	\$19.753	\$0.578	\$0.604				
250	100	25,500	\$15.913	\$19.164	\$22.173	--	\$21.776	\$24.603	\$24.977	\$23.588	\$22.870	\$0.714	\$0.746				
310	119	37,000	\$18.897	--	--	--	--	--	--	--	--	\$0.850	--				
360	144	45,000	\$22.824	--	--	--	--	--	--	--	--	\$1.028	--				
400	154	46,000	\$24.395	\$27.646	\$30.655	--	\$30.258	\$33.085	\$33.459	\$32.070	▲ \$31.728	\$1.100	\$1.148				
METAL HALIDE LAMPS																	
70	30	5,500	\$4.918	--	--	--	--	--	--	--	--	--	\$0.214	--			
100	41	8,500	\$6.646	--	--	--	--	--	--	--	--	--	\$0.293	--			
150	63	13,500	\$10.101	--	--	--	--	--	--	--	--	--	\$0.450	--			
175	72	14,000	\$11.515	--	--	--	--	--	--	--	--	--	\$0.514	--			
250	105	20,500	\$16.698	--	--	--	--	--	--	--	--	--	\$0.750	--			
400	162	30,000	\$25.651	--	--	--	--	--	--	--	--	--	\$1.157	--			
1,000	387	90,000	\$60.992	--	--	--	--	--	--	--	--	--	\$2.763	--			
INDUCTION LAMPS																	
23	9	1,840	\$1.620	--	--	--	--	--	--	--	--	--	\$0.064	--			
35	13	2,450	\$2.248	--	--	--	--	--	--	--	--	--	\$0.093	--			
40	14	2,200	\$2.405	--	--	--	--	--	--	--	--	--	\$0.100	--			
50	18	3,500	\$3.033	--	--	--	--	--	--	--	--	--	\$0.129	--			
55	19	3,000	\$3.190	--	--	--	--	--	--	--	--	--	\$0.136	--			
65	24	5,525	\$3.976	--	--	--	--	--	--	--	--	--	\$0.171	--			
70	27	6,500	\$4.447	--	--	--	--	--	--	--	--	--	\$0.193	--			
80	28	4,500	\$4.604	--	--	--	--	--	--	--	--	--	\$0.200	--			
85	30	4,800	\$4.918	--	--	--	--	--	--	--	--	--	\$0.214	--			
100	36	8,000	\$5.861	--	--	--	--	--	--	--	--	--	\$0.257	--			
120	42	8,500	\$6.726	--	--	--	--	--	--	--	--	--	\$0.296	--			
135	48	9,450	\$7.745	--	--	--	--	--	--	--	--	--	\$0.343	--			
150	51	10,900	\$8.217	--	--	--	--	--	--	--	--	--	\$0.364	--			
165	58	12,000	\$9.316	--	--	--	--	--	--	--	--	--	\$0.414	--			
200	72	19,000	\$11.515	--	--	--	--	--	--	--	--	--	\$0.514	--			
All LEDs now on separate tab.																	
Energy Rate @			\$0.15712	per kwh	LS-1 & LS-2												
			\$0.16409	per kwh	OL-1	Pole Painting Charge @				Per Pole Per Month							
08-Aug-16																	

Pacific Gas & Electric Company

Rate Change

8/1/16

LIGHT EMITTING DIODE (LED) LAMPS

TOTAL RATES (FACILITY + ENERGY CHGS)

NOMINAL LAMP RATINGS		ALL NIGHT RATES PER LAMP PER MONTH	HALF-HOUR ADJUSTMENT		ALL NIGHT RATES PER LAMP PER MONTH				
Lamp Watts	Average kWh Per Month				LS-1A	LS-1C	LS-1D	LS-1E	LS-1F
		LS-2A	LS-1A, C, E, F & LS-2A						
0.0-5.0	0.9	\$0.347	\$0.006		\$6.607	\$6.210	\$9.037	\$9.411	\$8.022
5.1-10.0	2.6	\$0.614	\$0.019		\$6.874	\$6.477	\$9.304	\$9.678	\$8.289
10.1-15.0	4.3	\$0.881	\$0.031		\$7.141	\$6.744	\$9.571	\$9.945	\$8.556
15.1-20.0	6.0	\$1.148	\$0.043		\$7.408	\$7.011	\$9.838	\$10.212	\$8.823
20.1-25.0	7.7	\$1.415	\$0.055		\$7.675	\$7.278	\$10.105	\$10.479	\$9.090
25.1-30.0	9.4	\$1.682	\$0.067		\$7.942	\$7.545	\$10.372	\$10.746	\$9.357
30.1-35.0	11.1	\$1.949	\$0.079		\$8.209	\$7.812	\$10.639	\$11.013	\$9.624
35.1-40.0	12.8	\$2.216	\$0.091		\$8.476	\$8.079	\$10.906	\$11.280	\$9.891
40.1-45.0	14.5	\$2.484	\$0.104		\$8.744	\$8.347	\$11.174	\$11.548	\$10.159
45.1-50.0	16.2	\$2.751	\$0.116		\$9.011	\$8.614	\$11.441	\$11.815	\$10.426
50.1-55.0	17.9	\$3.018	\$0.128		\$9.278	\$8.881	\$11.708	\$12.082	\$10.693
55.1-60.0	19.6	\$3.285	\$0.140		\$9.545	\$9.148	\$11.975	\$12.349	\$10.960
60.1-65.0	21.4	\$3.567	\$0.153		\$9.827	\$9.430	\$12.257	\$12.631	\$11.242
65.1-70.0	23.1	\$3.834	\$0.165		\$10.094	\$9.697	\$12.524	\$12.898	\$11.509
70.1-75.0	24.8	\$4.101	\$0.177		\$10.361	\$9.964	\$12.791	\$13.165	\$11.776
75.1-80.0	26.5	\$4.368	\$0.189		\$10.628	\$10.231	\$13.058	\$13.432	\$12.043
80.1-85.0	28.2	\$4.635	\$0.201		\$10.895	\$10.498	\$13.325	\$13.699	\$12.310
85.1-90.0	29.9	\$4.902	\$0.213		\$11.162	\$10.765	\$13.592	\$13.966	\$12.577
90.1-95.0	31.6	\$5.169	\$0.226		\$11.429	\$11.032	\$13.859	\$14.233	\$12.844
95.1-100.0	33.3	\$5.436	\$0.238		\$11.696	\$11.299	\$14.126	\$14.500	\$13.111
100.1-105.1	35.0	\$5.703	\$0.250		\$11.963	\$11.566	\$14.393	\$14.767	\$13.378
105.1-110.0	36.7	\$5.970	\$0.262		\$12.230	\$11.833	\$14.660	\$15.034	\$13.645
110.1-115.0	38.4	\$6.237	\$0.274		\$12.497	\$12.100	\$14.927	\$15.301	\$13.912
115.1-120.0	40.1	\$6.505	\$0.286		\$12.765	\$12.368	\$15.195	\$15.569	\$14.180
120.1-125.0	41.9	\$6.787	\$0.299		\$13.047	\$12.650	\$15.477	\$15.851	\$14.462
125.1-130.0	43.6	\$7.054	\$0.311		\$13.314	\$12.917	\$15.744	\$16.118	\$14.729
130.1-135.0	45.3	\$7.321	\$0.323		\$13.581	\$13.184	\$16.011	\$16.385	\$14.996
135.1-140.0	47.0	\$7.588	\$0.336		\$13.848	\$13.451	\$16.278	\$16.652	\$15.263

NOMINAL LAMP RATINGS		ALL NIGHT RATES	HALF-HOUR		ALL NIGHT RATES				
Lamp	Average kWh	PER LAMP	ADJUSTMENT		PER LAMP PER MONTH				
<u>Watts</u>	<u>Per Month</u>	PER MONTH							
		LS-2A	LS-1A, C, E, F & LS-2A		LS-1A	LS-1C	LS-1D	LS-1E	LS-1F
140.1-145.0	48.7	\$7.855	\$0.348		\$14.115	\$13.718	\$16.545	\$16.919	\$15.530
145.1-150.0	50.4	\$8.122	\$0.360		\$14.382	\$13.985	\$16.812	\$17.186	\$15.797
150.1-155.0	52.1	\$8.389	\$0.372		\$14.649	\$14.252	\$17.079	\$17.453	\$16.064
155.1-160.0	53.8	\$8.656	\$0.384		\$14.916	\$14.519	\$17.346	\$17.720	\$16.331
160.1-165.0	55.5	\$8.923	\$0.396		\$15.183	\$14.786	\$17.613	\$17.987	\$16.598
165.1-170.0	57.2	\$9.190	\$0.408		\$15.450	\$15.053	\$17.880	\$18.254	\$16.865
170.1-175.0	58.9	\$9.457	\$0.421		\$15.717	\$15.320	\$18.147	\$18.521	\$17.132
175.1-180.0	60.6	\$9.724	\$0.433		\$15.984	\$15.587	\$18.414	\$18.788	\$17.399
180.1-185.0	62.4	\$10.007	\$0.446		\$16.267	\$15.870	\$18.697	\$19.071	\$17.682
185.1-190.0	64.1	\$10.274	\$0.458		\$16.534	\$16.137	\$18.964	\$19.338	\$17.949
190.1-195.0	65.8	\$10.541	\$0.470		\$16.801	\$16.404	\$19.231	\$19.605	\$18.216
195.1-200.0	67.5	\$10.808	\$0.482		\$17.068	\$16.671	\$19.498	\$19.872	\$18.483
200.1-205.0	69.2	\$11.075	\$0.494		\$17.335	\$16.938	\$19.765	\$20.139	\$18.750
205.1-210.0	70.9	\$11.342	\$0.506		\$17.602	\$17.205	\$20.032	\$20.406	\$19.017
210.1-215.0	72.6	\$11.609	\$0.518		\$17.869	\$17.472	\$20.299	\$20.673	\$19.284
215.1-220.0	74.3	\$11.876	\$0.530		\$18.136	\$17.739	\$20.566	\$20.940	\$19.551
220.1-225.0	76.0	\$12.143	\$0.543		\$18.403	\$18.006	\$20.833	\$21.207	\$19.818
225.1-230.0	77.7	\$12.410	\$0.555		\$18.670	\$18.273	\$21.100	\$21.474	\$20.085
230.1-235.0	79.4	\$12.677	\$0.567		\$18.937	\$18.540	\$21.367	\$21.741	\$20.352
235.1-240.0	81.1	\$12.944	\$0.579		\$19.204	\$18.807	\$21.634	\$22.008	\$20.619
240.1-245.0	82.9	\$13.227	\$0.592		\$19.487	\$19.090	\$21.917	\$22.291	\$20.902
245.1-250.0	84.6	\$13.494	\$0.604		\$19.754	\$19.357	\$22.184	\$22.558	\$21.169
250.1-255.0	86.3	\$13.761	\$0.616		\$20.021	\$19.624	\$22.451	\$22.825	\$21.436
255.1-260.0	88.0	\$14.028	\$0.628		\$20.288	\$19.891	\$22.718	\$23.092	\$21.703
260.1-265.0	89.7	\$14.295	\$0.640		\$20.555	\$20.158	\$22.985	\$23.359	\$21.970
265.1-270.0	91.4	\$14.562	\$0.653		\$20.822	\$20.425	\$23.252	\$23.626	\$22.237
270.1-275.0	93.1	\$14.829	\$0.665		\$21.089	\$20.692	\$23.519	\$23.893	\$22.504
275.1-280.0	94.8	\$15.096	\$0.677		\$21.356	\$20.959	\$23.786	\$24.160	\$22.771
280.1-285.0	96.5	\$15.363	\$0.689		\$21.623	\$21.226	\$24.053	\$24.427	\$23.038
285.1-290.0	98.2	\$15.630	\$0.701		\$21.890	\$21.493	\$24.320	\$24.694	\$23.305
290.1-295.0	99.9	\$15.897	\$0.713		\$22.157	\$21.760	\$24.587	\$24.961	\$23.572
295.1-300.0	101.6	\$16.164	\$0.725		\$22.424	\$22.027	\$24.854	\$25.228	\$23.839
300.1-305.0	103.4	\$16.447	\$0.738		\$22.707	\$22.310	\$25.137	\$25.511	\$24.122
305.1-310.0	105.1	\$16.714	\$0.750		\$22.974	\$22.577	\$25.404	\$25.778	\$24.389

NOMINAL LAMP RATINGS		ALL NIGHT RATES PER LAMP PER MONTH	HALF-HOUR ADJUSTMENT	ALL NIGHT RATES PER LAMP PER MONTH				
Lamp Watts	Average kWh Per Month			LS-1A	LS-1C	LS-1D	LS-1E	LS-1F
		LS-2A	LS-1A, C, E, F & LS-2A					
310.1-315.0	106.8	\$16.981	\$0.763	\$23.241	\$22.844	\$25.671	\$26.045	\$24.656
315.1-320.0	108.5	\$17.248	\$0.775	\$23.508	\$23.111	\$25.938	\$26.312	\$24.923
320.1-325.0	110.2	\$17.515	\$0.787	\$23.775	\$23.378	\$26.205	\$26.579	\$25.190
325.1-330.0	111.9	\$17.782	\$0.799	\$24.042	\$23.645	\$26.472	\$26.846	\$25.457
330.1-335.0	113.6	\$18.049	\$0.811	\$24.309	\$23.912	\$26.739	\$27.113	\$25.724
335.1-340.0	115.3	\$18.316	\$0.823	\$24.576	\$24.179	\$27.006	\$27.380	\$25.991
340.1-345.0	117.0	\$18.583	\$0.835	\$24.843	\$24.446	\$27.273	\$27.647	\$26.258
345.1-350.0	118.7	\$18.850	\$0.847	\$25.110	\$24.713	\$27.540	\$27.914	\$26.525
350.1-355.0	120.4	\$19.117	\$0.860	\$25.377	\$24.980	\$27.807	\$28.181	\$26.792
355.1-360.0	122.1	\$19.384	\$0.872	\$25.644	\$25.247	\$28.074	\$28.448	\$27.059
360.1-365.0	123.9	\$19.667	\$0.885	\$25.927	\$25.530	\$28.357	\$28.731	\$27.342
365.1-370.0	125.6	\$19.934	\$0.897	\$26.194	\$25.797	\$28.624	\$28.998	\$27.609
370.1-375.0	127.3	\$20.201	\$0.909	\$26.461	\$26.064	\$28.891	\$29.265	\$27.876
375.1-380.0	129.0	\$20.468	\$0.921	\$26.728	\$26.331	\$29.158	\$29.532	\$28.143
380.1-385.0	130.7	\$20.735	\$0.933	\$26.995	\$26.598	\$29.425	\$29.799	\$28.410
385.1-390.0	132.4	\$21.002	\$0.945	\$27.262	\$26.865	\$29.692	\$30.066	\$28.677
390.1-395.0	134.1	\$21.269	\$0.957	\$27.529	\$27.132	\$29.959	\$30.333	\$28.944
395.1-400.0	135.8	\$21.536	\$0.970	\$27.796	\$27.399	\$30.226	\$30.600	\$29.211

LED lights are only applicable to LS-1A, 1C, 1E and 1F



## Attachment D

### PG&E's Proposed Changes in Electric Rates

ELECTRIC RATES	Bundled				Direct/Community Choice Access			
	8/1/2016 Present (A)	1/1/2021 Proposed (B)	Rate Change (B) - (A)	% Change	8/1/2016 Present (C)	1/1/2021 Proposed (D)	Rate Change (D) - (C)	% Change
<b>Customer Class</b>								
Residential	19.47	19.77	0.30	1.6%	13.80	14.14	0.34	2.4%
CARE	12.75	12.94	0.19	1.5%	4.68	4.87	0.20	4.2%
Non-CARE	21.81	22.15	0.34	1.6%	15.16	15.52	0.36	2.3%
Small Commercial	22.38	22.74	0.36	1.6%	14.50	14.85	0.35	2.4%
Medium Commercial	19.66	19.99	0.32	1.7%	10.91	11.23	0.32	2.9%
Large Commercial (E-19)	16.81	17.11	0.30	1.8%	8.34	8.62	0.29	3.4%
E-19 T	12.63	12.88	0.26	2.0%	N/A <sup>(2)</sup>	N/A <sup>(2)</sup>	N/A	N/A
E-19 P	15.59	15.85	0.26	1.7%	7.99	8.25	0.26	3.2%
E-19 S	16.92	17.22	0.30	1.8%	8.36	8.65	0.29	3.4%
Streetlight	21.42	21.77	0.35	1.7%	8.60	8.94	0.35	4.0%
Standby	16.34	16.61	0.28	1.7%	7.74	7.98	0.24	3.1%
Agriculture	17.00	17.27	0.27	1.6%	15.92	16.25	0.33	2.1%
Industrial (E-20)	13.35	13.58	0.23	1.8%	5.44	5.66	0.22	4.1%
E-20 T	10.74	10.93	0.19	1.8%	3.55	3.73	0.18	5.1%
E-20 P	14.50	14.75	0.25	1.7%	6.60	6.85	0.24	3.7%
E-20 S	15.97	16.25	0.28	1.8%	7.08	7.36	0.27	3.9%
<b>Average System Rate</b>	<b>18.22</b>	<b>18.52</b>	<b>0.30</b>	<b>1.6%</b>	<b>8.34</b>	<b>8.61</b>	<b>0.27</b>	<b>3.2%</b>
RESIDENTIAL TIERS	<b>Non-CARE</b>				<b>CARE</b>			
	(cents/kWh)			%	(cents/kWh)			%
	8/1/2016	01/01/21	Change		8/1/2016	1/1/2021	Change	
	Tier 1	18.21	18.48	1.5%	11.93	12.11	1.5%	
	Tier 2	24.08	24.45	1.5%	14.72	14.94	1.5%	
	Tier 3	24.08	24.45	1.5%	14.72	14.94	1.5%	
	Tier 4	39.98	40.59	1.5%	21.66	21.99	1.5%	
	Tier 5	39.98	40.59	1.5%	21.66	21.99	1.5%	
ELECTRIC BILLS	<b>Non-CARE - Average Monthly Bill (\$)</b>				<b>CARE - Average Monthly Bill (\$)</b>			
	Bundled				Bundled			
	8/1/2016	1/1/2021	Bill Change	% Change	8/1/2016	1/1/2021	Bill Change	% Change
	<b>Customer</b>							
	Residential							
	350 kWh	\$60.82	\$61.81	\$0.99 1.6%	\$37.91	\$38.56	\$0.64 1.7%	
	500 kWh	\$96.94	\$98.48	\$1.54 1.6%	\$59.99	\$60.97	\$0.98 1.6%	
	700 kWh	\$154.80	\$157.22	\$2.41 1.6%	\$93.67	\$95.15	\$1.49 1.6%	
	Small Commercial	\$287.16	\$291.80	\$4.63 1.6%	N/A	N/A	N/A	N/A

Departing load revenue increases from \$31.8M to \$37.8M, or an increase of \$5M (15.5%)

Notes:

(1) Rates are rounded to two decimal places for presentation purposes. % Change based on rates carrying additional digits.

(2) There no DA/CCA customers on E-19T.

## Attachment E

List of governmental entities, including the State of California and cities and counties served by PG&E, to whom PG&E will mail a notice stating in general terms the proposed revenues, rate changes, and ratemaking mechanisms requested in this Application, within twenty days after filing this 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 St Ste 1101  
Sacramento, CA 95814

and

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

Counties

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

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

## Municipal Corporations

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

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

Millbrae  
Milpitas  
Modesto  
Monte Sereno  
Monterey  
Moraga  
Morgan Hill  
Morro Bay  
Mountain View  
Napa  
Newark  
Nevada City  
Newman  
Novato  
Oakdale  
Oakland  
Oakley  
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  
Portola Valley  
Rancho Cordova  
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

# Attachment F

## Table of Acronyms and Terms

**ATTACHMENT F**  
**TABLE OF ACRONYMS AND TERMS**

<b>Acronym or Term</b>	<b>Full Name</b>
A.	Application
CCA	Community Choice Aggregation
CEEIC	California Energy Efficiency Industry Council
D.	Decision
DA	Direct Access
DCPP	Diablo Canyon Power Plant
Diablo Canyon	Diablo Canyon Power Plant
GHG	Greenhouse Gas
GRC	General Rate Case
GWh	Gigawatt-hour
IBEW	International Brotherhood of Electrical Workers
Joint Parties	Pacific Gas and Electric Company, Natural Resources Defense Council, Friends of the Earth, Environment California, International Brotherhood of Electrical Workers Local 1245, Coalition of California Utility Employees, and the Alliance for Nuclear Responsibility
MW	Megawatt
OTC	Once-Through Cooling
NBC	Non-Bypassable Charge
NDCTP	Nuclear Decommissioning Cost Triennial Proceeding
ND NBC	Nuclear Decommissioning Non-Bypassable Charge
NRC	Nuclear Regulatory Commission
PG&E	Pacific Gas and Electric Company
PPP	Public Purpose Program
R.	Rulemaking
RPS	Renewables Portfolio Standard
SWRCB	State Water Resources Control Board