

PUBLIC UTILITIES COMMISSION

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December 10, 2019

PG&E Advice Letter 4173-G

Erik Jacobson
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Subject: Staff Disposition of PG&E's Advice Letter Submission, "Annual Gas True-Up of Gas Transportation Balancing Accounts for Rates Effective January 1, 2020"

Dear Mr. Jacobson,

PG&E Advice Letter 4173-G is approved with an effective date of January 1, 2020, with the following modification: Tables C and D of Attachment 7, which pertain to GHG Allowance Proceeds and GHG Outreach and Administrative Expenses, are not approved. All balances in the accounts authorized for recovery are subject to audit, verification, and adjustment.

Background

On October 31, 2019, PG&E filed Advice Letter 4173-G, which requests approval for revisions to its revenue requirement and rates effective January 1, 2020.

Ordering Paragraph 5 of D.15-10-032 specifies that "Pacific Gas and Electric Company, Southern California Gas Company, San Diego Gas and Electric Company, and Southwest Gas Company shall annually forecast and reconcile its natural gas greenhouse gas compliance costs and allowance proceeds as part of its existing annual natural gas true-up advice letters that set transportation rates. The advice letter should also include a calculation of the compliance instrument procurement limit." This direction was reiterated in D.18-03-017, which specified in Ordering Paragraph 9 and Ordering Paragraph 10 that all four gas corporations must include the required tables in their annual filings.

Advice Letter 4173-G contains the forecasted revenue requirement for greenhouse gas (GHG) costs and the allowance proceed information, as required. The advice letter does not, however, account for changes enacted pursuant to SB 1477 (Stern, 2018), which took effect on January 1, 2019, and added new Public Utilities Code Section 748.6, which would impact the GHG allowance proceeds available for return to ratepayers. That new code section reads as follows:

Beginning with the fiscal year commencing July 1, 2019, and ending with the fiscal year ending June 30, 2023, the commission shall annually allocate fifty million dollars (\$50,000,000) of the revenues, including any accrued interest, received by a gas corporation as a result of the direct allocation of greenhouse gas emissions allowances

provided to gas corporations as part of a market-based compliance mechanism adopted pursuant to subdivision (c) of Section 38562 of the Health and Safety Code to fund the Building Initiative for Low-emissions Development (BUILD) Program (Article 12 (commencing with Section 921)) and the Technology and Equipment for Clean Heating (TECH) Initiative (Article 13 (commencing with Section 922)).

SB 1477 is currently being implemented by the CPUC as part of the Building Decarbonization proceeding - R.19-01-011. A Decision specifying how the four gas corporations that participate in the Cap-and-Trade program should withhold and direct their respective share of the \$50 million needed to fund BUILD and TECH has not yet issued. According to the proceeding's scoping memo, a Phase 1 Proposed Decision is anticipated before the end of 2019.

Even though the CPUC has yet to order specific details on how the funds associated with SB 1477 implementation should be tracked and disbursed, the statutory obligation to allocate \$50 million of allowance proceeds annually over four years beginning in Fiscal Year 2019-20 remains. It is necessary to allocate funding for the first year of the four-year period to comply with clear statutory language and to avoid needlessly delaying the implementation of the two pilot programs. Consequently, a modification to this advice letter consistent with the rules outlined in Section 7.6.1 of General Order 96-B is necessary to address a set-aside for the first year's funding for these statutorily mandated pilot programs.

Disposition

Energy Division approves PG&E Advice Letter 4173-G with the following modification: Tables C and D of Attachment 7, which pertain to GHG Allowance Proceeds and GHG Outreach and Administrative Expenses, are not approved. The revenue requirement associated with GHG costs, however, is approved for inclusion in rates on January 1, 2020. We expect the CPUC will dispense with matters pertaining to GHG proceeds as they relate to all four gas corporations via a separate resolution.

Please contact Adam Banasiak at 415-703-4304 or Adam.Banasiak@cpuc.ca.gov for any questions relating to GHG proceeds and expenses. All other questions should be directed to Eugene Cadenasso at 415-703-1214 or Eugene.Cadenasso@cpuc.ca.gov.

Sincerely,

 FOR

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cc:

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October 31, 2019

Advice 4173-G

(Pacific Gas and Electric Company ID U 39G)

Public Utilities Commission of the State of California

**Subject Annual Gas True-Up of Gas Transportation Balancing Accounts for
Rates Effective January 1, 2020**

Purpose

Pacific Gas and Electric Company (PG&E) submits this Annual Gas True-Up (AGT) of gas transportation balancing accounts to amortize account balances in core and noncore gas transportation rates effective January 1, 2020. This advice letter also provides a *preliminary* estimate of projected gas transportation and Public Purpose Program (PPP) Surcharge revenues (filed October 31 in a Tier 2 advice letter) authorized by, or currently pending before and expected to be authorized by, the California Public Utilities Commission (Commission or CPUC) for rates effective January 1, 2020.

Consistent with prior years, this AGT advice letter does not include 2020 gas procurement-related revenue requirement changes, which will be submitted in PG&E's monthly core procurement advice letter in late December 2019.

PG&E requests approval of this Tier 2 advice letter within 30 days (by December 2, 2019) with an effective date of January 1, 2020. PG&E will submit a separate Tier 1 advice letter in late December consolidating all final authorized revenue requirements and updated forecast end-of-year gas transportation balancing accounts for rates effective January 1, 2020.

Overview of Preliminary AGT

PG&E's preliminary estimate of its 2020 gas transportation revenue requirements is \$3,762 million, which is a \$117 million increase compared to present rates. Table 1 summarizes the major components of PG&E's 2020 gas transportation revenue requirements.

Table 1 Proposed Gas Transportation Revenue Requirements Effective January 1, 2020 (\$ millions)¹			
Description	Currently in Rates	Proposed	Change
End-Use Gas Transportation	\$3,161	\$3,271	\$110
Storage and Backbone Unbundled Costs	222	309	87
Gas PPP Surcharges ²	262	183	(79)
Total Gas Transportation Revenue Requirements	\$3,645	\$3,762	\$117

Attachment 1 summarizes the proposed 2020 gas transportation revenue requirements. Attachment 2 summarizes the forecast December 31, 2019 balances for gas transportation balancing accounts using recorded balances through September 30, 2019. The total December 31, 2019 gas transportation balancing account balances are projected to be undercollected by \$342.6 million, as shown in Attachment 1, line 1, and Attachment 2, line 22. This represents a \$680 thousand decrease in the gas transportation balancing account undercollections from those currently amortized in gas transportation rates. Finally, Attachments 3 through 5 provide illustrative rates and surcharges resulting from the amounts summarized in Attachments 1 and 2.

Background

The AGT is an annual process to change core and noncore gas transportation rates, as established in PG&E's 2005 Biennial Cost Allocation Proceeding (BCAP) Decision (D.) 05-06-029.³ That decision requires PG&E to submit an advice submittal to change core and noncore transportation rates 45 days prior to the end of each calendar year for rates effective January 1.

As described in PG&E's Preliminary Statement C-*Gas Accounting Terms and Definitions*, Part 12.b, *Revision Dates*, the AGT updates the customer class charge components of transportation rates to recover all gas transportation-related balancing and memorandum account balances for costs that the Commission has authorized to be recovered in rates.

¹ This table does not include 2020 gas procurement-related revenue requirement changes, which will be submitted in PG&E's monthly core procurement advice letter in late December 2019.

² Submitted for Commission approval in Advice 4174-G, which was submitted on October 31, 2019.

³ D. 05-06-029, p. 10 and Finding of Fact 9.

PG&E determines the change in the customer class charge components of transportation rates as follows:

- 1) Forecasting the December 31, 2019 balance for each gas transportation balancing and memorandum account to be updated in the AGT based on the September 30, 2019 recorded balances plus a forecast of costs and revenues, including interest, through December 31, 2019; and
- 2) Calculating the customer class charge components by dividing the forecasted December 31, 2019 balancing account balance by PG&E's currently adopted BCAP throughput forecast (D. 10-06-035). Note that on September 14, 2017, PG&E filed its 2018 Gas Cost Allocation Proceeding Application (A.) 17-09-006. On October 24th the Commission issued its final decision in that application (D.19-10-036). PG&E has up to 60 days to file a Tier 2 Advice Letter incorporating the adopted 2019 GT&S Throughput Forecast into ratemaking models for the non-GT&S components. Upon approval of that Tier 2 Advice Letter PG&E will implement those rates no later than the 1st of the second month following approval of that advice letter.

Transportation Balancing Accounts Already Approved for Amortization in the 2020 AGT

This section describes: (1) the balancing accounts that will be amortized through this AGT advice letter; (2) the recent CPUC decisions impacting the balancing account balances; and (3) PG&E's proposals to recover the forecasted balances in rates, effective January 1, 2020.

Certain account balances are recovered in rates through the Core Fixed Cost Account (CFCA) and/or Noncore Customer Class Charge Account (NCA) rate components, as described below. For these accounts, PG&E will transfer the recorded December 31, 2019 balances to the appropriate subaccount of the CFCA and/or NCA, once the AGT is approved.

Core Fixed Cost Account – (Attachment 2, Lines 1-2)

The CFCA records authorized General Rate Case Phase I (GRC) gas distribution base revenue amounts (with credits and adjustments), certain other core transportation costs, and transportation revenue from core customers. The CFCA has three subaccounts:

- (i) Distribution Cost subaccount recovers the core distribution base revenue requirements adopted in PG&E's GRC, including annual attrition adjustments, adjustments resulting from cost of capital proceedings, and other core distribution-related costs authorized by the Commission. The

Distribution Cost subaccount is allocated to core customer classes in proportion to their adopted allocation of distribution base revenues;

- (ii) Core Cost subaccount recovers non-distribution-related costs, such as the Self-Generation Incentive Program (SGIP) and the local transmission revenue requirements adopted by the Commission. The Core Cost subaccount is allocated to core transportation customers on an equal-cents-per-therm basis; and
- (iii) Assembly Bill (AB) 32 Cost of Implementation Fee Core subaccount recovers the gas portion of California Air Resources Board's (ARB) AB 32 Cost of Implementation Fee, allocated to PG&E's applicable core transportation customers on an equal-cents-per-therm basis, as further described below.

The AGT includes a forecasted \$243.9 million net undercollection in the CFCA, excluding the AB 32 Cost of Implementation Fee Core subaccount, which is described separately below. The net undercollection in the CFCA results from:

- (i) A forecasted \$250.5 million undercollection in the Distribution Cost subaccount⁴; and
- (ii) A forecasted \$6.6 million overcollection in the Core Cost subaccount.

Noncore Customer Class Charge Account - (Attachment 2, Lines 3-4)

The NCA records noncore costs and revenues from noncore customers for programs such as SGIP which receive balancing account treatment. The NCA has three subaccounts:

- (i) The Noncore subaccount recovers costs and balances from all noncore customers for non-distribution cost-related items and is allocated on an equal-cents-per-therm basis;
- (ii) The Distribution subaccount recovers the noncore distribution portion of gas revenue requirements adopted in GRC decisions and other noncore distribution-related costs and balances approved by the Commission. It is allocated to noncore classes in proportion to their adopted allocation of distribution base revenues; and
- (iii) The AB 32 Cost of Implementation Fee Noncore subaccount, which recovers the gas cost portion of the AB 32 cost of implementation fee,

⁴ In compliance with California Public Utilities Code section 706 (Senate Bill 901) and Resolution E-4963, PG&E has removed the costs associated with Officer Compensation for 2019 authorized in PG&E's 2017 General Rate Case, from the Distribution Subaccount of the CFCA.

allocated to PG&E's applicable noncore transportation customers, as further described below.

The AGT includes a forecasted \$34.2 million net overcollection in the NCA, excluding the AB 32 Cost of Implementation Fee Noncore subaccount, which is described separately below. The net undercollection in the NCA results from:

- (i) A forecasted \$23.3 million overcollection in the Noncore subaccount; and
- (ii) A forecasted \$10.9 million overcollection in the Distribution subaccount⁵.

AB 32 Cost of Implementation Fee – (Attachment 2, Line 13)

As described above, the AB 32 Cost of Implementation (COI) Fee is recovered in two subaccounts: (1) the core subaccount of the CFCA recovers the gas cost portion of the AB 32 COI Fee allocated to core customers; and (2) the noncore subaccount of the NCA recovers the gas cost portion of the AB 32 COI Fee allocated to noncore customers. In accordance with D. 12-10-044 and Advice 3348-G, the AB 32 COI Fee is allocated to all non-exempt customers on an equal-cents-per-therm basis. As indicated in Advice 3348-G, the ARB provides PG&E with an invoice and a list of PG&E customers who pay the COI fee directly to the ARB. Customers paying the COI Fee directly to the ARB are exempt from paying for COI Fee costs through PG&E's rates. PG&E has updated the currently adopted volumes used to calculate PG&E's 2019 COI rates to reflect a reduction of the volumes associated with exempt customers. The AGT balance proposed to be amortized in 2020 rates consists of a forecasted \$8.6 million net undercollection in the AB 32 Cost of Implementation Fee subaccounts.

Core Brokerage Fee Balancing Account (CBFBA) - (Attachment 2, Line 5)

The CBFBA ensures that variations between the adopted forecast brokerage fee revenue requirement credits in core transportation rates and actual brokerage fee revenues collected from core procurement customers will flow through core transportation rates. This account was adopted in PG&E's 2005 BCAP decision (D. 05-06-029). The AGT includes a forecasted \$960 thousand undercollection in the CBFBA. The CBFBA balance is included in the rate component of the Core Cost subaccount of the CFCA.

Hazardous Substance Mechanism (HSM) - (Attachment 2, Line 6)

The HSM provides a uniform methodology for allocating costs and related recoveries associated with covered hazardous substance-related activities, including hazardous

⁵ In compliance with California Public Utilities Code section 706 (Senate Bill 901) and Resolution E-4963, PG&E has removed the costs associated with Officer Compensation for 2019 authorized in PG&E's 2017 General Rate Case, from the Distribution Subaccount of the NCA.

substance clean-up and litigation, and related insurance recoveries, as set forth in D. 94-05-020 (the original HSM decision) through the Hazardous Substance Cost Recovery Account (HSCRA). The Commission has approved an allocation of Hazardous Substance Mechanism costs on an equal-cents-per-therm basis⁶. This AGT includes a \$68.9 million balance for collection in the HSCRA. Once allocated, the HSCRA balance is included in the rate component of the Core Cost subaccount of the CFCA and the Noncore subaccount of the NCA.

Balancing Charge Account (BCA) - (Attachment 2, Line 7)

The BCA records the revenue and costs associated with providing gas balancing service, including charges and credits, as described in gas Schedule G-BAL and Gas Rule 14. PG&E currently forecasts a \$1.7 million overcollection in the BCA. The BCA balance is included in the rate component of the Core Cost subaccount of the CFCA and the Noncore subaccount of the NCA.

Customer Energy Efficiency Incentive Account (CEEIA) - (Attachment 2, Line 9)

The CEEIA records the gas portion of any Efficiency Savings Performance Incentive (ESPI) award authorized by the Commission to be recovered in rates. Interest does not accrue in this subaccount pursuant to D. 07-09-043. This AGT includes a forecasted \$8.1 million undercollected balance, which will be recovered through the CEE Incentive rate component. As discussed in more detail below in the “Recent, Pending and Anticipated CPUC Proceedings and Advice Letters” section, PG&E will update the December AGT forecast based on the Commission’s Final Savings Performance Statement. The CEEIA is recovered from core and noncore customers in proportion to their adopted allocation of distribution base revenues.

California Solar Initiative Thermal Program Memorandum Account (CSITPMA) - (Attachment 2, Line 10)

Advice 3093-G established the CSITPMA to record expenses incurred by PG&E for implementing the CSI Thermal Program authorized by D. 10-01-022. Customers who participate in the California Alternate Rates for Energy (CARE) or Family Electric Rate Assistance (FERA) Programs, customers who are currently exempt from funding the SGIP, and customers exempt pursuant to Public Utilities Code Section 2863(b)(4) are exempt from CSI Thermal Program charges. This AGT includes a forecasted \$7.9 million undercollected balance in the CSITPMA, and will be recovered in the CSITPMA rate component, allocated on an equal-cents-per-therm basis (with exceptions noted above).

Adjustment Mechanism for Costs Determined in Other Proceedings (AMCDOP) – (Attachment 2, Line 11)

⁶ See also gas Preliminary Statement Part AN.

The AMCDOP was approved by the Commission in D.11-04-031 (approving the Gas Accord V Settlement, and continued in PG&E's 2015 Gas Transmission and Storage (GT&S) rate case, D.16-06-056). The purpose of the AMCDOP is to record the difference in the revenue requirement associated with costs determined in other proceedings and the revenue requirements based on placeholder costs included in PG&E's GT&S filings. Examples of "other proceedings" are PG&E's GRC, the cost of capital proceedings, and the Pension Recovery Proceeding. The AMCDOP is governed by Gas Preliminary Statement Part CO, which specifies that the AMCDOP shall apply to all customer classes. According to the Preliminary Statement, 50% of the total costs are allocated to core customers and 50% to noncore customers through the customer class charge. As discussed in the 'Recent Decisions' and 'Pending Decisions' sections below, PG&E has reflected the revenue requirement adjustments associated with the transmission portion of Cost of Capital, the transmission portion of the 2017 Tax Act and the GT&S Rate Base Adjustment in this filing in the AMCDOP. PG&E forecasts that the AMCDOP will have a \$18.9 million credit balance on December 31, 2019.

Non-Tariffed Products and Services Balancing Account (NTBA-G) - (Attachment 2, Line 12)

The NTBA-G is used to record the core customer share of revenues net of costs and income taxes associated with new Non-Tariffed Products and Services (NTP&S), pursuant to CPUC Affiliate Transaction Rule VII. Costs and revenues are tracked for appropriate disbursement of revenues, net of expense, to customers and shareholders via the 50/50 sharing mechanism as approved by D. 99-04-021. The NTBA-G does not apply to NTP&S in PG&E's existing NTP&S catalogue, which remains subject to other operating revenue treatment, consistent with D. 99-04-021. In Resolution G-3417, the Commission approved PG&E's proposal to offer the Mover Services Program; to recover costs and disburse net revenues through the NTBA-G; to transfer the balance at the end of the year from the NTBA-G to the CFCA; and to include it in the AGT submittal, in order to credit customer revenues pursuant to D. 99-04-021. If the balance at the end of the year for any product or service category is undercollected, no transfer will be made for that product or service category, and the balance for that product or service category will be reset to zero at the beginning of the year. PG&E forecasts a \$184 thousand overcollected balance for this account, which will be transferred to the Distribution Cost subaccount of the CFCA.

Gas Pipeline Expense and Capital Balancing Account (GPECBA) – (Attachment 2, Line 14)

The GPERBA records PG&E's reimbursements to the Commission associated with implementing and complying with D. 12-12-030, up to \$15 million. PG&E forecasts a balance of \$2 thousand undercollection in this account. The balance in this account is recovered through the Core Cost subaccount of the CFCA and Noncore subaccount of the NCA at 59.5% and 40.5%, respectively.

Natural Gas Leak Abatement Program Balancing Account (NGLAPBA) - (Attachment 2, Line 16)

The NGLAPBA records the difference between the adopted budget to actual costs incurred, up to the adopted budget, related to incremental costs of pilot projects and research and development costs related to minimizing methane emissions consistent with new regulatory requirements pursuant to Senate Bill 1371 and Commission Decision 17-06-015. The NGLAPBA is a one-way balancing account. PG&E forecasts a \$1.5 million overcollected balance in the Distribution Subaccount of the NGLAPBA, which will be transferred to the Distribution Cost Subaccount and Distribution Subaccount of the CFCA and NCA, respectively. PG&E forecasts a \$902 thousand overcollected balance in the Transmission Subaccount of the NGLAPBA which will be transferred to the Core Cost Subaccount and the Noncore Subaccount of the CFCA and NCA, respectively.

New Environmental Regulations Balancing Account (NERBA) - (Attachment 2, Line 17)

The NERBA records and tracks actual expenses and capital revenue requirements compared to the adopted budget for incremental best practice activities related to minimizing methane emissions consistent with new regulatory requirements pursuant to Senate Bill 1371 and Commission Decision 17-06-015. These best practices pertain to policies and procedures, recordkeeping, training, leak detection, leak repair, and leak prevention. Consistent with the definition of incremental costs in PG&E's 2018 compliance plan, PG&E has recorded all Grade 3 leak repairs incurred in 2018 and 2019 in NERBA. The compliance plan says: "All Grade 3 leak repair work is incremental to existing regulations, which require these leaks to be monitored regularly but not repaired." ⁷

The NERBA is a two-way balancing account. PG&E forecasts a \$19.6 million undercollected balance in the Distribution Subaccount of the NERBA, which will be transferred to the Distribution Cost Subaccount and Distribution Subaccount of the CFCA and NCA, respectively. PG&E forecasts a \$1.6 million overcollected balance in the Transmission Subaccount of the NERBA which will be transferred to the Core Cost Subaccount and the Noncore Subaccount of the CFCA and NCA, respectively.

Pension Contribution Balancing Account (PCBA) - (Attachment 2, Line 18)

The PCBA includes the revenue requirement associated with the difference, if any, between adopted pension contributions and (i) lower contributions for any reason or (ii) federally mandated higher contributions, with the difference to be refunded to or recovered from customers. PG&E's contribution to the pension plan have matched the amounts adopted in D. 06-06-014 and D. 07-03-044. As a result, PG&E does not expect that the PCBA will have a balance on December 31, 2019. Should it have a

⁷ See PG&E's November 8, 2018 Compliance Plan, p. BPES-63.

balance, it would be recovered through the Distribution Subaccounts of the CFCa and NCA.

Gas Transmission & Storage Revenue Sharing Mechanism (GTSRSM) – (Attachment 2, Line 20)

Originally adopted as part of the Gas Accord V Settlement Agreement and continued in the 2015 GT&S and 2019 GT&S Rate Case decisions, with modifications, the GTSRSM records the difference between adopted noncore and unbundled revenue requirements and recorded noncore and unbundled revenues to be shared between customers and shareholders, as further described below. The GTSRSM consists of the following three subaccounts⁸:

- (i) The Backbone subaccount, which records the difference between the adopted unbundled backbone revenue requirement and the portion of backbone revenues allocated to core customers that are collected volumetrically and recorded backbone revenues, whether an over-collection or an under-collection, to be shared 50% to customers and 50% to shareholders. PG&E forecasts a \$33.2 million overcollection in the Backbone subaccount of the GTSRSM which has been allocated to all end use customers.
- (ii) The Local Transmission subaccount, which records the difference between the adopted noncore local transmission revenue requirement and recorded local transmission revenues, whether an over-collection or an under-collection, to be shared 75% to customers and 25% to shareholders. PG&E forecasts a \$9.8 million undercollection in the Local Transmission subaccount of the GTSRSM which has been allocated to all end use customers, except for industrial backbone and electric generation backbone customers.
- (iii) The Storage subaccount, which records the difference between the adopted unbundled storage revenue requirement and recorded unbundled storage revenues, if an over-collection, to be shared 75% to customers and 25% to shareholders. PG&E is at risk for 100% of any net under-collections. The 2019 GT&S Decision 19-09-025⁹, Ordering Paragraph 93, approved the closure of the noncore storage subaccount. Note that PG&E will close the storage subaccount upon elimination of the noncore storage service¹⁰. PG&E is forecasting a net undercollection

⁸ On October 23, 2019, PG&E filed Advice 4166-G to eliminate the Revenue Sharing subaccount in compliance with D.19-09-025, which became obsolete with the elimination of the seed value in rates effective October 1, 2019.

⁹ Issued September 23, 2019.

¹⁰ Closure of the subaccount will occur around April 2020.

in the Storage subaccount of the GTSRSM and therefore has not passed on the balance in rates.

In accordance with the proposed changes to Preliminary Statement Part CP proposed in Advice 4166-G, the balances in the three subaccounts as of December 31 of each year¹¹ will be transferred to the Core and Noncore subaccounts of the CFCA and NCA, respectively. The distribution of the balance will be 50% to core and 50% to noncore customers¹². Additionally, pursuant to D. 19-09-025, Ordering Paragraph 82, PG&E will be filing an advice letter by November 25, 2019 with a proposal to revise its process for converting its balancing and memorandum accounts into rates so that the process ensures backbone customers are not allocated local transmission costs.

Mobile Home Park Balancing Account – Gas (MHPBA) – (Attachment 2, Line 21)

The MHPBA records and recovers actual incurred costs of implementing the voluntary program to convert the gas master-meter/submeter service at mobile home parks and manufactured housing communities to direct service by PG&E, pursuant to D.14-03-021. Advice 3473-G provided that the disposition of the balance in the account shall be through the AGT, via the CFCA and NCA, or other venues as approved by the Commission. This AGT includes a forecast \$23.9 million undercollected balance in the MHPBA. The balance is recovered through the Distribution Subaccounts of the CFCA and NCA.

Discussion of Recent, Pending and Anticipated CPUC Proceedings and Advice Letters

The following section highlights recent and pending decisions and advice letter submittals that may impact PG&E's gas transportation revenue requirements and rates submitted in the AGT:

Recent Decisions

2017 Tax Act - GT&S and GRC

On March 31, 2018, PG&E filed Petitions for Modification of D.16-06-056 in PG&E's 2015 Gas Transmission and Storage (GT&S) rate case and D.17-05-013 in PG&E's 2017 General Rate Case (GRC) to revise the adopted revenue requirements to reflect the effects of the 2017 Tax Act. On August 15, 2019, the Commission issued D.19-08-021 and D.19-08-023 in the GT&S and GRC cases, respectively.

¹¹ If the storage subaccount is undercollected as of September 30, the balance will be transferred to earnings.

¹² Decision 19-09-025, OP 93, approved PG&E's proposal to change the timing for the annual transfer in the Revenue Sharing subaccount to coincide with its other balancing accounts.

The Decisions required that PG&E work collaboratively with the Commission's Energy Division regarding the revised computations and the timing of the amortization of the revised revenue requirements in rates (Ordering Paragraph 4 in each decision). The Decisions also required that PG&E submit a Tier 2 advice letter within 30 days showing the results of its compliance with Ordering Paragraphs 3 and 4 (Ordering Paragraph 5 in each decision).

On September 13, 2019, PG&E filed Advice 4142-G in compliance with the Decisions. The revenue requirements shown in this filing reflect the updated revenue requirements and amortization as approved in Advice 4142-G, and detailed below:

- Gas Distribution: Amortization of the 2018 and 2019 revenue requirement increase of \$32.6 million over 12 months beginning on January 1, 2020; and
- Gas Transmission: Amortization of the 2018 revenue requirement reduction of \$61.1 million over 12 months beginning on January 1, 2020.¹³

Pending Decisions

2020 General Rate Case (GRC)

On December 13, 2018 PG&E filed its 2020 General Rate Case Application (A.18-12-009), including proposed electric and gas distribution and electric generation revenue requirements. The Assigned Commissioner's Scoping Memo and Ruling was issued on March 8, 2019 and included the procedural schedule for the 2020 GRC which provides for issuance of a proposed decision in the first quarter of 2020. As such, the proposed 2020 GRC revenue requirements included in PG&E's 2020 GRC request are not reflected in the illustrative 2020 rates in this Advice advice letter. Instead, the gas adopted 2019 distribution revenue requirement is carried forward for January 1, 2020 rates in this filing.

2020 Cost of Capital (CoC)

On April 22, 2019 PG&E filed its Cost of Capital (CoC) 2020 Application (A.19-04-015), including proposed rate of return on equity (ROE) and rate of return on rate base (ROR) for electric and gas distribution, gas transmission, and electric generation. On August 1, 2019, PG&E filed supplemental testimony adjusting its request to reflect the effect of wildfire legislation (Assembly Bill 1054). During the September 10, 2019 Evidentiary Hearing, the Assigned Commissioner revised the procedural schedule for the CoC 2020 that provides for a proposed decision being issued in the last week of November 2019. The proposed 2020 CoC ROE and ROR included in PG&E's 2020

¹³ The gas transmission credit of \$61.1 million is reflected in the AMCDOP forecasted balance.

CoC August 1 update are included in the illustrative 2020 revenue requirements and rates in this advice letter¹⁴.

GT&S Rate Base Adjustment

On November 17, 2017, PG&E filed an application at the CPUC requesting that the Commission adopt its gas transmission (GT&S) revenue requirement, cost allocation, and rate design for the period of 2019-2022. On September 23, 2019, the CPUC voted to adopt the Decision 19-09-025, Decision Authorizing PG&E's 2019-2022 Revenue Requirement for Gas Transmission and Storage Service.

Ordering Paragraph 87 of that decision ordered PG&E to ... *"submit a Tier 2 Advice Letter with 30 days of the date that this decision is final to establish a memorandum account to track and record the difference in revenue requirement resulting from the difference between the year-end 2018 rate base balance (which includes PG&E's forecasted \$965 million of rate base additions) and the actual year end 2018 rate base balance. PG&E must refund to ratepayers any resulting overcollections in its 2019 Annual Gas True-up (AGT). PG&E shall update its AGT for each year of the rate case period to reflect that rate base adjustment, using the actual beginning 2019 recorded rate base balance, with all appropriate adjustments consistent with this decision."*

PG&E filed AL 4169-G on October 23, 2019, in compliance with D. 19-09-025. In that AL, PG&E requested authority to establish Gas Preliminary Statement Part FC, Rate Base Adjustments Memorandum Account (RBAMA). In addition, PG&E included a forecast of the revenue requirement resulting from the difference between the year-end 2018 rate base balance (which includes PG&E's forecasted rate base additions) and the actual year end 2018 rate base balance, a credit of \$8.7 million. This amount has been reflected in the AMCDOP. PG&E will reflect the final revenue requirement adjustment, as approved by the Commission, in the December 2019 AGT supplement.

Efficiency Savings and Performance Incentive Mechanism (ESPI) – (Attachment 2, Line 9)

The ESPI mechanism was adopted on September 5, 2013, in D.13-09-023. In D.15-10-028, the Commission updated the timelines for ESPI review to comply with the new EE planning, budget, and review processes adopted in the same decision. The framework of the ESPI program was retained. The IOUs are required to submit an annual advice letter on September 1 of each year to claim their incentive awards.

PG&E submitted its ESPI advice letter 4137-G on September 3, 2019. The filing requests \$21.6 million for PG&E's ESPI award for 2017 and 2018. Upon approval of advice 4137-G, PG&E will record the approved award amount to the Customer Energy

¹⁴ The gas transmission portion of the Cost of Capital revenue requirement of \$51 million has been reflected in the AMCDOP forecasted balance.

Efficiency Adjustment balancing accounts allocating 76% to electric and 24% to gas according to the 2019 electric and gas net benefit split approved by disposition of PG&E's 2019 EE budget advice letter¹⁵. The gas portion of the award is \$5.2 million and is recovered through the CEEIA rate component.

Self-Generation Incentive Program (SGIP)

On September 27, 2018, the Governor approved Senate Bill 700 which extends the collection for the SGIP through December 31, 2024, and the administration of the program to January 1, 2026. The Commission issued a ruling on April 15, 2019, "Assigned Commissioner's Ruling Seeking Comment On Implementation of Senate Bill 700 and Other Program Modifications." On May 30, 2019, PG&E submitted its opening comments on the Ruling. A decision has not been issued authorizing the 2020 SGIP budget. In this AGT filing, PG&E has reflected the 2019 gas budget as authorized in Decision (D.) 17-04-017 of approximately \$12.9 million as a place holder. Current allocation to gas customers is based on Equal Cents per Therm. Once the 2020 SGIP budget is approved, PG&E will update the allocation method to the Direct Benefits 3 year rolling average per D.18-08-013.

Greenhouse Gas (GHG) Natural Gas Costs and Revenue Return – (Attachment 1, Lines 8-10)

On March 22, 2018, the Commission approved final decision D. 18-03-017 modifying D. 15-10-032 under Rulemaking 14-03-003. By this decision the Commission distributed GHG allowance proceeds solely to residential customers of the natural gas utilities. In addition, the Commission ordered that the residential natural gas California Climate Credit must be distributed in April of each year. GHG compliance costs were included in rates beginning July of 2018.

PG&E's 2020 forecasted greenhouse gas compliance and operational costs total \$186 million.¹⁶ The forecasted 2020 GHG proceeds of \$161.3 million¹⁷ will be distributed to residential customers on their April 2020 bills. Additionally, PG&E has included Tables A-E as required by D.15-10-032 and D.18-03-017, in Attachment 6 of this advice letter. These tables detail the forecasted and recorded GHG costs, including the Outreach and Administrative expenses, allowance proceeds, and Compliance Obligation over time.

¹⁵ The 24 percent allocation to gas customers was approved via Advice 4011-G-B/5375-E-B.

¹⁶ Includes \$12.9 million overcollection from 2019.

¹⁷ Includes \$6.7 million overcollection from 2019.

Gas Public Purpose Program Authorized Funding

This AGT incorporates gas PPP surcharge changes that were submitted in Advice 4174-G on October 31, 2019. The gas PPP surcharge rate impacts on customers are shown in Attachment 1.

Public Utilities Code Sections 890-900 and D. 04-08-010 authorize a gas surcharge rate to fund public purpose programs. The gas PPP Surcharge advice letter updates the natural gas PPP surcharge rates to fund authorized energy efficiency (EE), energy savings assistance program (ESA), Statewide Marketing Education and Outreach (SWME&O) (for EE and ESA), CARE, public-interest research, development and demonstration (RD&D) programs and Board of Equalization (BOE) administrative costs.

The gas PPP surcharges proposed include:

- 1) Total gas PPP authorized program funding of \$149.1 million for EE, ESA, CARE administrative expenses, RD&D, BOE administrative costs and SWME&O administrative costs. This represents a \$12.2 million decrease from 2019;
- 2) Amortization over 12 months of forecasted December 31, 2019 balances in the PPP surcharge balancing accounts totaling a \$96 million overcollection. This represents an \$70.3 million decrease from 2019; and
- 3) A projected 2020 CARE revenue shortfall of \$129.4 million, which represents a \$3.0 million increase from the forecasted 2019 CARE customer discount. This shortfall is included in the PPP-CARE portion of the gas PPP surcharge rates for 2020 and accounted for as a reduction of net transportation revenue requirement in rates for a zero-sum impact on the total gas revenue requirement.

Gas Transmission and Storage Rates

On November 17, 2017, PG&E filed an application at the CPUC requesting that the Commission adopt its gas transmission & storage (GT&S) revenue requirement, cost allocation, and rate design for the period of 2019-2022. On September 12, 2019, the CPUC voted to adopt the Decision 19-09-025, *Decision Authorizing Pacific Gas and Electric Company's 2019-2022 Revenue Requirement for Gas Transmission and Storage Service*.

The following table shows total annual 2019 revenue requirements compared to the 2020 revenue requirements as authorized by D. 19-09-025. A portion of the backbone and the storage revenue requirements shown below are recovered in PG&E's core procurement rates and from Core Transport Agents and are not included in the

revenue requirement tables or rates provided in this advice letter. Recovery of these portions of the backbone and storage revenue requirements shown below will occur in PG&E's monthly procurement advice letters effective during 2020. In addition, in its 2019 GT&S rate case, PG&E received annual funding of approximately \$140 thousand for the Pacific Trading Forum event. PG&E plans to refund the 2019 -2022 authorized funding of \$588 thousand for this event back to customers. These customer refunds are reflected in the forecasted December 31, 2019 balances of Core Cost Subaccount of the CFCA and the Noncore Subaccount of the NCA.

Annual 2020 Gas Transmission and Storage Revenue Requirements
(\$ thousands)

Total Annual GT&S Revenue Requirements	GT&S 2019	GT&S 2020	Change
Total Backbone	\$357,828	\$479,453	\$121,625
Total Local Transmission ¹⁸	799,286	856,625	57,339
Total Storage	135,756	55,783	(79,973)
Total NGSS	36,948	37,266	318
Total Customer Access Charge	2,428	2,404	(24)
Total GT&S ¹⁹	\$1,332,245	\$1,431,532	\$99,287

In addition to these 2020 revenue requirements, in this advice letter, PG&E includes \$59.6 million²⁰ in rates on January 1, 2019 related to the net undercollection.

Confidentiality

Per GO 66-C, Section 583 of the Public Utilities Code, and D. 15-10-032, specific values in Attachment 7 are confidential as described in the attached confidentiality declaration.

Protests

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than November 20, 2019, which is 20 days after the date of this submittal. Protests must be submitted to:

¹⁸ Pursuant to D. 19-09-025, Ordering Paragraph 82, PG&E will be filing an advice letter by November 25, 2019 with a proposal to revise its process for converting its balancing and memorandum accounts into rates so that the process ensures backbone customers are not allocated local transmission costs.

¹⁹ Totals may not tie due to rounding.

²⁰ See Attachment H, Table 2, line 13. Per D. 19-09-025, the net undercollection is to be collected in rates over 15 months, from October 1, 2019 through December 31, 2020.

CPUC Energy Division
ED Tariff Unit
505 Van Ness Avenue, 4th Floor
San Francisco, California 94102

Facsimile: (415) 703-2200
E-mail: EDTariffUnit@cpuc.ca.gov

Copies of protests also should be mailed to the attention of the Director, Energy Division, Room 4004, at the address shown above.

The protest shall also be sent to PG&E either via E-mail or U.S. mail (and by facsimile, if possible) at the address shown below on the same date it is mailed or delivered to the Commission:

Erik Jacobson
Director, Regulatory Relations
c/o Megan Lawson
Pacific Gas and Electric Company
77 Beale Street, Mail Code B13U
P.O. Box 770000
San Francisco, California 94177

Facsimile: (415) 973-3582
E-mail: PGETariffs@pge.com

Any person (including individuals, groups, or organizations) may protest or respond to an advice letter (General Order 96-B, Section 7.4). The protest shall contain the following information: specification of the advice letter protested; grounds for the protest; supporting factual information or legal argument; name, telephone number, postal address, and (where appropriate) e-mail address of the protestant; and statement that the protest was sent to the utility no later than the day on which the protest was submitted to the reviewing Industry Division (General Order 96-B, Section 3.11).

Effective Date

PG&E requests that this Tier 2 submittal be approved within 30 days of submittal (by December 2, 2019), with an effective date of January 1, 2020.

As noted above, illustrative average rates are shown on Attachments 3 through 5 of this submittal. PG&E will submit final rates and preliminary statement changes in a separate December 2019 advice letter that will consolidate all year-end gas transportation rate changes authorized to be effective on January 1, 2020.²¹ Changes to core gas

²¹ The advice letter for monthly core gas procurement rates will be submitted in a separate advice letter in December 2019.

transportation rates will be incorporated into the monthly core procurement advice submittal for rates effective January 1, 2020.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and the parties on the service list for A.09-05-026, A.17-09-006, R.02-10-001, A.13-12-012, A.17-11-009, A.15-09-001, A.18-12-009, A.19-04-015, A.13-09-015, R.14-03-003, R.12-11-005 and R.15-01-008. Address changes to the General Order 96-B service list should be directed to PG&E at email address PGETariffs@pge.com. For changes to any other service list, please contact the Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

_____/S/

Erik Jacobson
Director, Regulatory Relations

Attachments

- Attachment 1: 2020 Revenue Requirements
- Attachment 1A: 2020 Revenue Requirements Allocation to Core/Noncore/Unbundled
- Attachment 2: Balancing Account Forecast Summary
- Attachment 3: Average End-User Gas Transportation Rates and Public Purpose Program Surcharges
- Attachment 4: Summary of Rates by Class by Major Elements
- Attachment 5: Allocation of Gas End-Use Transportation Revenue Requirements and Public Purpose Program Surcharge Revenues across Classes
- Attachment 6: Gas Transmission and Storage Rates
- Attachment 7: Natural Gas GHG Tables
 - Public Attachment 6:
 - Table A: Forecast Revenue Requirement
 - Table C: GHG Allowance Proceeds
 - Table D: GHG Outreach and Administrative Expense
 - Table E: Compliance Obligation Over Time
 - Confidential Attachment 6:
 - Table B: Recorded GHG Costs
 - PG&E's 2020 Natural Gas GHG Limit
- Attachment 8: Confidentiality Declaration

cc: 2009 Biennial Cost Allocation Proceeding (BCAP) (A.09-05-026) (Public Version)
2018 Gas Cost Allocation Proceeding (GCAP) (A.17-09-006) (Public Version)
Gas PPP Surcharge (R.02-10-001) (Public Version)
2015 Gas Transmission and Storage Proceeding (A.13-12-012) (Public Version)
2019 Gas Transmission and Storage Proceeding (A. 17-11-009) (Public Version)
2017 GRC Phase I (A.15-09-001) (Public Version)
2020 GRC Phase I (A.18-12-009) (Public Version)
2020 Cost of Capital (A.19-04-015) (Public Version)
AB 32 Natural Gas Supplier Cost Recovery (A.13-09-015) (Public Version)
Greenhouse Gas Natural Gas OIR (R.14-03-003) (Public Version)
Self Generation Incentive Program (R.12-11-005) (Public Version)
Natural Gas Leak Abatement (R.15-01-008) (Public Version)
Eugene Cadenasso, Energy Division (Public and Confidential Versions)



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Pacific Gas and Electric Company (ID U39 G)

Utility type:

☐ ELC ☒ GAS ☐ WATER
☐ PLC ☐ HEAT

Contact Person: Annie Ho

Phone #: (415) 973-8794

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: AMHP@pge.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 4173-G

Tier Designation: 2

Subject of AL: Annual Gas True-Up of Gas Transportation Balancing Accounts for Rates Effective January 1, 2020

Keywords (choose from CPUC listing): Compliance, Balancing Account, Agreement, Taxes, Core, Noncore, Procurement

AL Type: ☐ Monthly ☐ Quarterly ☐ Annual ☒ One-Time ☐ Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.05-06-029

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: No

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? ☒ Yes ☐ No

If yes, specification of confidential information: See Attachment 8

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information: Robert Gomez, 415-973-8681

Resolution required? ☐ Yes ☒ No

Requested effective date: 1/1/20

No. of tariff sheets: N/A

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected:

Service affected and changes proposed¹: N/A

Pending advice letters that revise the same tariff sheets: N/A

¹Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name: Erik Jacobson, c/o Megan Lawson
Title: Director, Regulatory Relations
Utility Name: Pacific Gas and Electric Company
Address: 77 Beale Street, Mail Code B13U
City: San Francisco, CA 94177
State: California Zip: 94177
Telephone (xxx) xxx-xxxx: (415)973-2093
Facsimile (xxx) xxx-xxxx: (415)973-3582
Email: PGETariffs@pge.com

Name:
Title:
Utility Name:
Address:
City:
State: District of Columbia Zip:
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

Clear Form

ATTACHMENT 1

PACIFIC GAS AND ELECTRIC COMPANY
JANUARY 1, 2020 RATE CHANGE2019 ANNUAL END-USE TRANSPORTATION, GAS TRANSMISSION AND STORAGE REVENUE REQUIREMENTS,
AND PUBLIC PURPOSE PROGRAMS AUTHORIZED FUNDING
(\$ THOUSANDS)

Line No.		A Present in Rates as of 10/1/19	B Proposed as of 1/1/2020	C Total Change	D Core	E Noncore / Unbundled	Line No.
END-USE GAS TRANSPORTATION							
1	Gas Transportation Balancing Accounts	343,266	342,586	(680)	21,520	(22,201)	1
2	GRC Distribution Base Revenues (includes distribution portion of Cost of Capital)	1,921,788	2,027,916	106,128	102,427	3,701	2
3	Pension - Distribution	47,699	47,699	-	-	-	3
4	Pension - Gas Transmission & Storage	18,013	18,013	-	(903)	903	4
5	Self Generation Incentive Program Revenue Requirement	12,990	12,989	(1)	-	-	5
6	CPUC Fee	11,661	11,661	-	-	-	6
7	Core Brokerage Fee Credit	(6,583)	(6,583)	-	-	-	7
8	Greenhouse Compliance Operational Cost (excluding RF&U)	19,428	12,347	(7,081)	(2,792)	(4,288)	8
9	Greenhouse Compliance Cost (excluding RF&U)	167,734	173,672	5,938	4,826	1,112	9
10	Greenhouse Compliance Revenue Return (including RF&U)	(128,831)	(159,753)	(30,922)	(30,922)	-	10
11	Less CARE discount recovered in PPP surcharge from non-CARE customers	(126,435)	(129,374)	(2,939)	(2,940)	-	11
12	RF&U	6,849	6,820	(29)	312	(340)	12
13	Total Transportation RRQ with Adjustments and Credits	2,287,579	2,357,993	70,414	91,528	(21,113)	13
14	Procurement-Related G-10 Total	(698)	(608)	90	90	-	14
15	Procurement-Related G-10 Total Allocated	698	608	(90)	(35)	(54)	15
16	Total Transportation Revenue Requirements Reallocated	2,287,579	2,357,993	70,414	91,582	(21,167)	16
Gas Transmission & Storage (GT&S) Transportation Revenue Requirements (RRQ)							
17	Local Transmission	799,286	856,625	57,339	37,408	19,931	17
18	Customer Access	2,428	2,404	(24)	-	(24)	18
19	Total GT&S Transportation RRQ	801,714	859,029	57,315	37,408	19,908	19
20	2019 GT&S Late Implementation ¹						20
21	Local Transmission	17,595	4,168	(13,427)	(9,054)	(4,373)	21
22	Backbone	10,575	6,595	(3,980)	(1,479)	(2,501)	22
23	Storage	43,083	43,007	(76)	(64)	(12)	23
24	Total 2019 GT&S Late Implementation	71,253	53,770	(17,483)	(10,597)	(6,886)	24
25	Total End-Use Gas Transportation RRQ	3,160,546	3,270,792	110,246	118,393	(8,145)	25
PUBLIC PURPOSE PROGRAMS (PPP) FUNDING							
26	Energy Efficiency	67,877	84,513	16,636	(3,069)	19,705	26
27	Energy Savings Assistance	77,547	49,359	(28,188)	(20,421)	(7,767)	27
28	Research and Development and BOE/CPUC Admin Fees	11,221	10,295	(926)	(506)	(420)	28
29	CARE Administrative Expense	3,737	3,772	35	40	(4)	29
30	Statewide Marketing, Education & Outreach	854	1,139	285	13	272	30
31	Total Authorized PPP Funding	161,236	149,078	(12,158)	(23,944)	11,786	31
32	PPP Surcharge Balancing Accounts	(25,636)	(95,961)	(70,325)	(66,185)	(4,139)	32
33	CARE discount recovered from non-CARE customers	126,435	129,374	2,939	2,302	638	33
34	Total PPP Required Funding	262,035	182,491	(79,544)	(87,827)	8,285	34
GT&S UNBUNDLED COSTS							
35	Backbone Transmission	204,980	304,264	99,284	-	99,284	35
36	Storage	17,179	4,573	(12,606)	-	(12,606)	36
37	Total GT&S Unbundled	222,159	308,837	86,678	-	86,678	37
38	TOTAL REVENUE REQUIREMENTS	3,644,740	3,762,120	117,380	30,567	86,818	38

Notes:

A positive balance represents an under-collection. A negative balance represents an over-collection.

Some numbers may not add precisely due to rounding.

1) See Appendix H, Table 2 of D.19-09-025. Note Noncore portion of NGSS Enduser Depreciation/Decommissioning as shown on line 9 of Attachment H, Table 2 (\$5.8M annual RRQ) is included in Local Transmission Balancing Accounts.

ATTACHMENT 1A

**PACIFIC GAS AND ELECTRIC COMPANY
JANUARY 1, 2020 RATE CHANGE**

**2019 ANNUAL END-USE TRANSPORTATION, GAS TRANSMISSION AND STORAGE REVENUE REQUIREMENTS,
AND PUBLIC PURPOSE PROGRAMS AUTHORIZED FUNDING ALLOCATION TO CORE/NONCORE/UNBUNDLED
(\$ THOUSANDS)**

Line No.		Proposed as of 1/1/2020	Core	Noncore / Unbundled	Line No.
	END-USE GAS TRANSPORTATION				
1	Gas Transportation Balancing Accounts	342,586	334,123	8,462	1
2	GRC Distribution Base Revenues	2,027,916	1,957,310	70,606	2
3	Pension - Distribution	47,699	46,038	1,661	3
4	Pension - Gas Transmission & Storage	18,013	10,533	7,480	4
5	Self Generation Incentive Program Revenue Requirement	12,989	5,149	7,841	5
6	CPUC Fee	11,661	7,155	4,506	6
7	Core Brokerage Fee Credit	(6,583)	(6,583)	-	7
8	Greenhouse Compliance Obligation Cost (excluding RF&U)	12,347	4,869	7,478	8
9	Greenhouse Compliance Cost (excluding RF&U)	173,672	141,148	32,524	9
10	Greenhouse Compliance Revenue Return (excluding RF&U)	(159,753)	(159,753)	-	10
	Less CARE discount recovered in PPP surcharge from non-CARE customers	(129,374)	(129,374)	-	
11					11
12	FF&U	6,820	6,211	610	12
13	Total Transportation RRQ with Adjustments and Credits	2,357,993	2,216,827	141,167	13
14	Procurement-Related G-10 Total	(608)	(608)	-	14
15	Procurement-Related G-10 Total Allocated	608	240	368	15
16	Total Transportation Revenue Requirements Reallocated	2,357,993	2,216,458	141,534	16
	Gas Transmission & Storage (GT&S) Transportation Revenue Requirements (RRQ)				
17	Local Transmission	856,625	588,905	267,720	17
18	Customer Access	2,404	-	2,404	18
19	Total GT&S Transportation RRQ	859,029	588,905	270,125	19
20	2019 GT&S Late Implementation				20
21	Local Transmission	4,168	8,788	(4,620)	21
22	Backbone	6,595	13,487	(6,892)	22
23	Storage	43,007	41,387	1,620	23
24	Total 2019 GT&S Late Implementation	53,770	63,662	(9,892)	24
25	Total End-Use Gas Transportation RRQ	3,270,792	2,869,025	401,767	25
	PUBLIC PURPOSE PROGRAMS (PPP) FUNDING				
26	Energy Efficiency	84,513	58,010	26,503	26
27	Energy Savings Assistance	49,359	49,359	-	27
28	Research and Development and BOE/CPUC Admin Fees	10,295	6,010	4,285	28
29	CARE Administrative Expense	3,772	2,066	1,706	29
30	Statewide Marketing, Education & Outreach	1,139	782	357	30
31	Total Authorized PPP Funding	149,078	116,226	32,851	31
32	PPP Surcharge Balancing Accounts	(95,961)	(81,261)	(14,699)	32
33	CARE discount recovered from non-CARE customers	129,374	70,867	58,507	33
34	Total PPP Required Funding	182,491	105,832	76,660	34
	GT&S UNBUNDLED COSTS				
35	Backbone Transmission	304,264	-	304,264	35
36	Storage	4,573	-	4,573	36
37	Total GT&S Unbundled	308,837	-	308,837	37
38	TOTAL REVENUE REQUIREMENTS	3,762,120	2,974,858	787,264	38

Notes:

A positive balance represents an under-collection. A negative balance represents an over-collection.
Some numbers may not add precisely due to rounding.

ATTACHMENT 2

AL 4173-G

**PACIFIC GAS AND ELECTRIC COMPANY
JANUARY 1, 2020 RATE CHANGE
BALANCING ACCOUNT FORECAST SUMMARY**

(\$ THOUSANDS)

Line No.		Balance	Allocation		Balance ¹	Allocation		Line No.
		Sept. 2019 Recorded Dec. 2019 Forecast	Core	Noncore	Nov. 2018 Recorded Dec. 2018 Forecast	Core	Noncore	
		A	B	C	A	B	C	
GAS TRANSPORTATION BALANCING ACCOUNTS								
1	Core Fixed Cost Account (CFCA) - Distribution Cost Subaccount	\$250,493	\$250,493	\$0	\$235,566	\$235,566	\$0	1
2	CFCA - Core Cost Subaccount	(\$6,569)	(\$6,569)	\$0	\$11,370	\$11,370	\$0	2
3	Noncore Customer Class Charge Account (NCA) - Noncore Subaccount	(\$23,304)	\$0	(\$23,304)	(\$10,586)	\$0	(\$10,586)	3
4	NCA - Distribution Subaccount	(\$10,896)	\$0	(\$10,896)	(\$4,282)	\$0	(\$4,282)	4
5	Core Brokerage Fee Balancing Account	\$960	\$960	\$0	\$1,030	\$1,030	\$0	5
6	Hazardous Substance Mechanism	\$68,863	\$27,158	\$41,705	\$91,470	\$36,073	\$55,396	6
7	Balancing Charge Account	(\$1,745)	(\$688)	(\$1,057)	1,489	\$587	\$902	7
8	GT&S Ex Parte Penalty	\$0	\$0	\$0	(63,500)	(\$38,322)	(\$25,178)	8
9	Customer Energy Efficiency Incentive Recovery Account - Gas	\$8,114	\$8,044	\$70	612	\$607	\$5	9
10	California Solar Initiative Thermal Program Memorandum Account	\$7,916	\$4,682	\$3,234	7,358	\$4,350	\$3,008	10
11	Adjustment Mechanism of Costs Determined in Other Proceedings	(\$18,934)	(\$9,467)	(\$9,467)	37,952	\$18,976	\$18,977	11
12	Non-Tariffed Products and Services Balancing Account	(\$184)	(\$184)	\$0	(351)	(\$351)	\$0	12
13	AB 32 Cost of Implementation Fee	\$8,647 (2)	\$4,314	\$4,332	\$5,976	\$2,981	\$2,994	13
14	Gas Pipeline Expense and Capital Balancing Account	\$2	\$1	\$1	302	\$180	\$122	14
15	Engineering Critical Assessment Balancing Account	\$0	\$0	\$0	(63,847)	(\$38,532)	(\$25,315)	15
16	Natural Gas Leak Abatement Program Balancing Account	(\$2,410)	(\$1,811)	(\$599)	4,689	\$3,974	\$715	16
17	New Environmental Regulations Balancing Account	\$18,010	\$18,275	(\$265)	38,300	\$36,000	\$2,300	17
18	Pension Contribution Balancing Account	\$0	\$0	\$0	\$0	\$0	\$0	18
19	NGSS Enduser Depreciation/Decommissioning	\$43,073 (3)	\$27,503	\$15,570	42,756	\$27,269	\$15,487	19
20	GT&S Revenue Sharing Mechanism	(\$23,391) (4)	(\$11,695)	(\$11,696)	(8,867)	(\$4,433)	(\$4,433)	20
21	Mobile Home Park Balancing Account	\$23,941	\$23,107	\$834	15,829	\$15,278	\$551	21
22	Subtotal Transportation Balancing Accounts	\$342,586	\$334,123	\$8,462	\$343,266	\$312,603	\$30,663	22
PUBLIC PURPOSE PROGRAM (PPP) SURCHARGE BALANCING ACCOUNTS (5)								
23	PPP-Energy Efficiency	(\$15,372)	(\$10,551)	(\$4,821)	(\$4,064)	(\$3,657)	(\$407)	23
24	PPP-Low Income Energy Efficiency	(\$58,736)	(\$58,736)	\$0	\$795	\$716	\$80	24
25	PPP-Research Development and Demonstration	(\$122)	(\$71)	(\$51)	(\$128)	(\$75)	(\$54)	25
26	California Alternate Rates for Energy Account	(\$21,731)	(\$11,903)	(\$9,827)	(\$22,239)	(\$12,060)	(\$10,179)	26
27	Subtotal Public Purpose Program Balancing Accounts	(\$95,961)	(\$81,261)	(\$14,699)	(\$25,636)	(\$15,076)	(\$10,560)	27
28	TOTAL BALANCING ACCOUNTS	\$246,625	\$252,862	(\$6,237)	\$317,630	\$297,527	\$20,103	28

Footnotes:

- These balances are the forecasted balances as of December 2018. The December 2018 ending balances that were provided in the 2019 AGT AL 4038-G (with updates in AL 4053-G) were the forecasted balances (based on recorded balances as of November 2018 with a forecast of December 2018 activity).
- This amount reflects the total forecast balance of the AB 32 Cost of Implementation Fee Core subaccount in the CFCA and the Noncore subaccount of the NCA. The total forecast balance is allocated on an equal-cents-per therm basis.
- Noncore portion of NGSS Enduser Depreciation/Decommissioning undercollection as shown on line 9 of Attachment H, Table 2 (\$5.8M annual RRQ) is included.
- The balance shown is the September 30, 2019 recorded balance in the Backbone and Local Transmission Subaccounts of the GTSRSM. The balances will be transferred evenly (50/50) to the CFCA and NCA after the approval of the AGT advice letter. The balance in the Local Transmission subaccount will be allocated to all end use customers except for industrial backbone and electric generation backbone customers. See the GTSRSM summary in Advice 4173-G for more detail.
- The PPP-related balances (based on Sept 2019 recorded) were included in the 2020 PPP Gas Surcharge filed in AL 4174-G on October 31, 2019.

Notes:

A positive balance represents an under-collection. A negative balance represents an over-collection.
Some numbers may not add precisely due to rounding.

ATTACHMENT 3
PACIFIC GAS AND ELECTRIC COMPANY
01/1/2020 AGT Preliminary Filing
AVERAGE END-USER GAS TRANSPORTATION RATES AND PUBLIC PURPOSE PROGRAM SURCHARGES
(\$/th; Annual Class Averages)⁽³⁾

Line

No.	Customer Class	November 2019 Baseline			01/1/2020 AGT Preliminary Filing			Percentage Change from November 2019 Baseline		
		(A)								
		Transportation ^(1, 5)	G-PPPS ⁽²⁾	Total	Transportation	G-PPPS	Total	Transportation	G-PPPS	Total
RETAIL CORE										
1	Residential Non-CARE ⁽⁴⁾	\$1.197	\$0.090	\$1.288	\$1.260	\$0.036	\$1.296	5.2%	(59.7%)	0.7%
2	Small Commercial Non-CARE ⁽⁴⁾	\$765	\$043	\$808	\$805	\$059	\$864	5.3%	35.6%	6.9%
3	Large Commercial	\$466	\$095	\$561	\$491	\$049	\$540	5.5%	(49.0%)	(3.8%)
4	NGV1 - (uncompressed service)	\$378	\$028	\$406	\$400	\$029	\$428	5.6%	1.4%	5.4%
5	NGV2 - (compressed service)	\$1.879	\$028	\$1.907	\$1.890	\$029	\$1.919	0.6%	1.4%	0.6%
RETAIL NONCORE - NONCOVERED ENTITIES ⁽⁶⁾										
6	Industrial - Distribution	\$322	\$044	\$366	\$318	\$059	\$377	(1.2%)	34.8%	3.1%
7	Industrial - Transmission	\$167	\$034	\$201	\$171	\$037	\$208	2.5%	8.2%	3.5%
8	Industrial - Backbone	\$068	\$034	\$102	\$061	\$037	\$098	(10.4%)	8.2%	(4.1%)
9	Electric Generation - Transmission (G-EG-D/LT)	\$156		\$156	\$161		\$161	2.8%		2.8%
10	Electric Generation - Backbone (G-EG-BB)	\$066		\$066	\$059		\$059	(11.1%)		(11.1%)
11	NGV 4 - Distribution (uncompressed service)	\$322	\$028	\$350	\$318	\$029	\$347	(1.2%)	1.4%	(1.0%)
12	NGV 4 - Transmission (uncompressed service)	\$157	\$028	\$185	\$162	\$029	\$190	3.0%	1.4%	2.8%
WHOLESALE CORE AND NONCORE (G-WSL) ⁽¹⁾										
13	Alpine Natural Gas	\$105		\$105	\$107		\$107	2.3%		2.3%
14	Coalinga	\$105		\$105	\$108		\$108	2.3%		2.3%
15	Island Energy	\$114		\$114	\$116		\$116	2.1%		2.1%
16	Palo Alto	\$102		\$102	\$105		\$105	2.3%		2.3%
17	West Coast Gas - Castle	\$310		\$310	\$302		\$302	(2.7%)		(2.7%)
18	West Coast Gas - Mather Distribution	\$372		\$372	\$361		\$361	(3.1%)		(3.1%)
19	West Coast Gas - Mather Transmission	\$106		\$106	\$109		\$109	2.3%		2.3%

(1) Transportation Only rates include: i) a transportation component that recovers customer class charges, customer access charges, CPUC fees, local transmission (where applicable), distribution costs (where applicable), and AB32 Cost of Implementation Fee (wholesale and certain large customers are directly billed by the Air Resource board, and are exempt from PG&E's AB32 COI rate component of \$0.00151 per therm). Transport only customers must arrange for their own gas purchases and transportation to PG&E's citygate/local transmission system.

(2) D. 04-08-010 authorized PG&E to remove the gas public purpose program surcharge that recovers the costs of low income California Alternate Rates for Energy (CARE), low income energy efficiency, energy efficiency, Research Development and Demonstration program and BOE/CPUC Administration costs from transportation rates and into its own separate surcharge tariff. Certain customers are exempt from paying the PPP surcharge; see tariff G-PPPS for details. G-PPPS rates are determined annually in PG&E's PPP Filing.

(3) Rates are rounded to 3 decimals for viewing ease. Percentage rate changes are calculated on a 5-digit basis.

(4) CARE Customers receive a 20% discount off of PG&E's total bundled rate and are exempt from the CARE portion of PG&E's Public Purpose Program Surcharge (G-PPPS) rates and cost recovery of the California Solar Initiative Thermal Program.

(5) Billed Transportation rates paid by all customers include an additional GHG Compliance Cost of \$0.04951 and Operational Cost component of \$0.0017

(6) Covered Entities within classes and the wholesale class (i.e. customers that currently have a direct obligation to pay for allowances directly to the Air Resources Board) will see a line item credit on their bill equal to the GHG Compliance Cost \$0.04951 per therm times their monthly billed volumes.

Attachment 4
PACIFIC GAS AND ELECTRIC COMPANY
01/1/2020 AGT PRELIMINARY FILING
SUMMARY OF RATES (excluding procurement) BY CLASS BY MAJOR ELEMENTS
(\$/th; Annual Class Averages)⁽⁹⁾

		Core Retail					Noncore Retail						
		Non-CARE Residential	Sml Com.	Lg. Comm.	G-NGV1 (Uncompressed)	G-NGV2 (Compressed)	Distribution	Industrial Transmission	BB-Level Serv.	G-NGV 4 Distribution	Transmission	Electric Generation Dist./Trans.	BB-Level Serv.
TRANSPORTATION CHARGE COMPONENTS													
1	Local Transmission (1)	\$.21777	\$.21777	\$.21777	\$.21777	\$.21777	\$.10029	\$.1002900	\$.00000	\$.10029	\$.1002900	\$.10029	\$.00000
2	Self Generation Incentive Program	\$.00180	\$.00180	\$.00180	\$.00180	\$.00180	\$.00180	\$.0018003	\$.00180	\$.00180	\$.0018003	\$.00180	\$.00180
3	CPUC Fee (3)	\$.00250	\$.00250	\$.00250	\$.00250	\$.00250	\$.00250	\$.0025030	\$.00250	\$.00250	\$.0025000	\$.00010	\$.00010
4	AB32 Air Resource Board Cost of Implementation Fee (8)	\$.00151	\$.00151	\$.00151	\$.00151	\$.00151	\$.00151	\$.0015086	\$.00151	\$.00151	\$.0015087	\$.00151	\$.00151
5	AB32 Greenhouse Gas Compliance & Obligation Cost	\$.05121	\$.05121	\$.05121	\$.05121	\$.05121	\$.05121	\$.0512077	\$.05121	\$.05121	\$.0512077	\$.05121	\$.05121
6	Balancing Accounts (2)	\$.13407	\$.07057	\$.02664	\$.01382	\$.21917	(\$.01875)	\$.0035490	\$.00349	(\$.01875)	\$.0049852	\$.00262	\$.00110
7	2019 GT&S Late Implementation Shortfall Amortization	\$.02354	\$.02354	\$.02354	\$.02354	\$.02354	(\$.00323)	(\$.0032300)	(\$.00149)	(\$.00323)	(\$.0032300)	(\$.00323)	(\$.00149)
8	GT&S Related Pension	\$.00363	\$.00363	\$.00363	\$.00363	\$.00363	\$.00194	\$.0019408	\$.00090	\$.00194	\$.0019408	\$.00194	\$.00090
9	Distribution - Annual Average (6)	\$.82398	\$.37375	\$.15829	\$.08263	\$ 1.36912	\$.17710	\$.0108718		\$.17710		\$.00341	\$.00341
10	VOLUMETRIC RATE - Average Annual	\$ 1.26001	\$.74628	\$.48689	\$.39841	\$ 1.89026	\$.31438	\$.1704413	\$.05992	\$.31437	\$.1610025	\$.15965	\$.05853
11	CUSTOMER ACCESS CHARGE - Class Average Volumetric Equivalent (4)		\$.05888	\$.00449	\$.00120		\$.00384	\$.0007616	\$.00081	\$.00384	\$.0007616	\$.00086	\$.00027
12	CLASS AVERAGE TRANSPORTATION RATE	\$ 1.26001	\$.80516	\$.49138	\$.39961	\$ 1.89026	\$.31821	\$.1712000	\$.06073	\$.31821	\$.1617641	\$.16051	\$.05880
13	PUBLIC PURPOSE PROGRAM SURCHARGE/TAX (5)	\$.03645	\$.05855	\$.04864	\$.02851	\$.02851	\$.05865	\$.0372200	\$.03722	\$.02851	\$.0285100		
14	END-USE RATE (7)	\$ 1.29646	\$.86371	\$.54002	\$.42812	\$ 1.91877	\$.37686	\$.2084200	\$.09795	\$.34672	\$.1902741	\$.16051	\$.05880

		Wholesale						
		Coalinga	Palo Alto	WC Gas Mather Dist.	Trans.	Island Energy	Alpine	WC Gas Castle
TRANSPORTATION CHARGE COMPONENTS								
15	Local Transmission (1)	\$.10029	\$.10029	\$.10029	\$.10029	\$.10029	\$.10029	\$.10029
16	Self Generation Incentive Program			WHOLESALE CUSTOMERS EXCEMPT FROM SGIP, AB32 COI, and CPUC FEE RATE COMPONENTS				
17	CPUC Fee (3)	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000
18	AB32 Air Resource Board Cost of Implementation Fee (8)	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000	\$.00000
19	AB32 Greenhouse Gas Compliance & Obligation Cost	\$.05121	\$.05121	\$.05121	\$.05121	\$.05121	\$.05121	\$.05121
20	Balancing Accounts (2)	\$.00307	\$.00307	(\$.03535)	\$.00307	\$.00307	\$.00307	(\$.02594)
21	2019 GT&S Late Implementation Shortfall Amortization	(\$.00323)	(\$.00323)	(\$.00323)	(\$.00323)	(\$.00323)	(\$.00323)	(\$.00323)
22	GT&S Related Pension	\$.00194	\$.00194	\$.00194	\$.00194	\$.00194	\$.00194	\$.00194
23	Distribution - Annual Average			\$.29045				\$.21935
24	VOLUMETRIC RATE - Average Annual	\$.15328	\$.15328	\$.40531	\$.15328	\$.15328	\$.15328	\$.34361
25	CUSTOMER ACCESS CHARGE - Class Average Volumetric Equivalent (4)	\$.00384	\$.00090	\$.00483	\$.00483	\$.01263	\$.00350	\$.00763
26	CLASS AVERAGE TRANSPORTATION RATE	\$.15712	\$.15418	\$.41014	\$.15810	\$.16590	\$.15678	\$.35124
Wholesale Customers Exempt from Public Purpose Program Surcharge								
27	PUBLIC PURPOSE PROGRAM SURCHARGE/TAX (5)							
28	END-USE RATE	\$.15712	\$.15418	\$.41014	\$.15810	\$.16590	\$.15678	\$.35124
29	GHG COMPLIANCE COST EXEMPTION(9)	\$.04951	\$.04951	\$.04951	\$.04951	\$.04951	\$.04951	\$.04951
30	END-USE RATE EXCLUDING GHG COMPLIANCE	\$.10761	\$.10467	\$.36063	\$.10859	\$.11639	\$.10727	\$.30173

NOTES

- (1) Adopted in Decision 19-09-025 filed with Advice Letter 4149-G Attachment 6 Appendix H Table 20
- (2) Based on September recorded balances and forecasted through December.
- (3) CPUC Fee based on Resolution M-4839, effective April 1, 2018 (including FF&U). G-EG customers pay a reduced CPUC fee per the 2010 BCAP D.10-06-035.
- (4) Adopted in Decision 19-09-025 filed with Advice Letter 4149-G Attachment 6 Appendix H Table 21
- (5) Decision 04-08-010 ordered the removal of PPP cost recovery from transportation rates. On March 1, 2005 PG&E began to treat PPP as a tax. AL 4174-G updated PG&E's 2020 PPP Surcharges effective January 1, 2020.
- (6) The G-NGV2 Distribution rate component includes the cost of compression, station operations and maintenance, and state/federal gas excise taxes, and the average A-10 electric rate.
- (7) CARE Customers receive a 20% discount off of PG&E's total bundled rate and are exempt from the CARE portion of PG&E's Public Purpose Program Surcharge (G-PPPS) rates and cost recovery of the California Solar Initiative Thermal Program.
- (8) AB32 provides the Air Resource Board recovery of its administration costs associated with the implementation of AB32. Wholesale and certain large customers are directly billed by the ARB, and are exempt from PG&E's cost of implementation component of \$0.00151 per therm
- (9) Billed Transportation rates paid by all customers include an additional GHG Compliance Cost of \$0.04951 and Operational Cost component of \$0.0017. Covered Entities within classes and the wholesale class (i.e. customers that currently have a direct obligation to pay for allowances directly to the Air Resource Board) will see a line credit on their bill equal to the GHG Compliance Cost \$0.04951 per therm times their monthly billed therms
- (10) Rates are unrounded

Attachment 5

PACIFIC GAS AND ELECTRIC COMPANY

01/1/2020 AGT Preliminary Filing

ALLOCATION OF GAS END-USE TRANSPORTATION REVENUE REQUIREMENTS AND PUBLIC PURPOSE PROGRAM SURCHARGE REVENUES ACROSS CLASSES
(\$000)

Line No.	GAS GRC, ATTRITION, PENSION & COST OF CAPITAL DISTRIBUTION-LEVEL REVENUE REQUIREMENTS	TOTAL	Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
1	Customer	\$1,117,288	\$974,802	\$129,907	\$2,779	\$113	\$0	\$1,107,601	\$6,878	\$391	\$0	\$2,418	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,687
2	+ Distribution	\$927,830	\$647,079	\$208,369	\$9,195	\$1,560	\$0	\$866,202	\$39,619	\$15,027	\$0	\$6,654	\$0	\$0	\$0	\$0	\$182	\$0	\$146	\$0	\$61,627
3	+ G-NGV2 Compression Cost	\$3,113	\$0	\$0	\$0	\$0	\$3,113	\$3,113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
4	Allocation of Base Distribution Franchise Fees	\$20,359	\$16,121	\$3,362	\$119	\$17	\$31	\$19,650	\$462	\$153	\$0	\$90	\$0	\$0	\$0	\$0	\$2	\$0	\$1	\$0	\$709
5	Allocation of Base Distribution Uncollectibles Expense	\$7,026	\$5,565	\$1,161	\$41	\$6	\$11	\$6,783	\$160	\$53	\$0	\$31	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$244
6	Final Allocation of Distribution Revenue Requirement	\$2,075,616	\$1,643,566	\$342,799	\$12,134	\$1,695	\$3,155	\$2,003,349	\$47,118	\$15,624	\$0	\$9,193	\$0	\$0	\$0	\$0	\$184	\$0	\$147	\$0	\$72,267
7	Distribution-Level Revenue Requirement Allocation %	100.00000%	79.18450%	16.51553%	0.58460%	0.08167%	0.15200%	96.51830%	2.27008%	0.75275%	0.00000%	0.44291%	0.00000%	0.00000%	0.00000%	0.00000%	0.00886%	0.00000%	0.00709%	0.00000%	3.48170%

	CUSTOMER CLASS COSTS WITHOUT RATE COMPONENTS	TOTAL	Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
8	Core Fixed Cost Acct. Bal. - Distribution Cost Subaccount	\$250,493	\$205,507	\$42,863	\$1,517	\$212	\$394	\$250,493	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
9	Core Fixed Cost Acct. Bal. - Core Cost Subaccount - ECPT	(\$6,569)	(\$4,558)	(\$1,796)	(\$169)	(\$46)	\$0	(\$6,569)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
10	Mobile Home Parks Balancing Account	\$23,941	\$18,958	\$3,954	\$140	\$20	\$36	\$23,108	\$543	\$180	\$0	\$106	\$0	\$0	\$0	\$0	\$2	\$0	\$2	\$0	\$834
11	Noncore Customer Class Charge Account - ECPT	(\$23,304)	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,363)	(\$7,525)	(\$61)	(\$14,132)	(\$27)	(\$13)	(\$167)	(\$3)	(\$5)	(\$3)	(\$4)	(\$186)	(\$23,304)
12	Noncore Customer Class Charge Account - Distribution Subacct	(\$10,896)	\$0	\$0	\$0	\$0	\$0	\$0	(\$7,104)	(\$2,356)	\$0	(\$1,386)	\$0	\$0	\$0	\$0	(\$28)	\$0	(\$22)	\$0	(\$10,896)
13	Gas Leak Survey & Repair Balancing Account	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
14	CFCA - NGSS Enduser Dist. Sub Acct Recovery	\$25,145	\$20,629	\$4,303	\$152	\$21	\$40	\$25,145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
15	Gas Pipeline Expense & Capital BA (2016 is for CPUC Reimb sub)	\$2	\$1	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
16	Hazardous Substance Balance	\$68,863	\$18,845	\$7,425	\$699	\$189	\$0	\$27,158	\$2,440	\$13,467	\$109	\$25,292	\$49	\$23	\$299	\$6	\$9	\$6	\$6	\$333	\$41,705
17	Non-Tariffed Products and Services	(\$184)	(\$128)	(\$50)	(\$5)	(\$1)	\$0	(\$184)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	Core Brokerage Fee Credit (Gas Brokerage Costs w/o FF&U)	(\$5,468)	(\$3,795)	(\$1,495)	(\$141)	(\$38)	\$0	(\$5,468)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	Core Brokerage Fee Credit (Sales/Marketing Costs w/o FF&U)	(\$1,028)	(\$904)	(\$121)	(\$3)	(\$0)	\$0	(\$1,028)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	GT&S Ex. Parte Penalty	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	Balancing Charge Account	(\$1,745)	(\$477)	(\$188)	(\$18)	(\$5)	\$0	(\$688)	(\$62)	(\$341)	(\$3)	(\$641)	(\$1)	(\$1)	(\$8)	(\$0)	(\$0)	(\$0)	(\$0)	(\$8)	(\$1,057)
22	G-10 Procurement-related Employee Discount Allocated	\$608	\$166	\$66	\$6	\$2	\$0	\$240	\$22	\$119	\$1	\$223	\$0	\$0	\$3	\$0	\$0	\$0	\$0	\$3	\$368
23	Brokerage Fee Balance Account	\$960	\$666	\$263	\$25	\$7	\$0	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	Adjust. Mechanism Costs Determined Other Proceedings	(\$18,934)	(\$6,569)	(\$2,588)	(\$243)	(\$66)	\$0	(\$9,467)	(\$554)	(\$3,057)	(\$25)	(\$5,741)	(\$11)	(\$5)	(\$68)	(\$1)	(\$2)	(\$1)	(\$1)	(\$76)	(\$9,467)
25	G-10 Procurement-related Employee Discount Applied to Res Class	(\$608)	(\$608)	\$0	\$0	\$0	\$0	(\$608)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
26	New Environmental Regulations Balancing Account(Transmission)	(\$1,563)	(\$428)	(\$169)	(\$16)	(\$4)	\$0	(\$616)	(\$55)	(\$306)	(\$2)	(\$574)	(\$1)	(\$1)	(\$7)	(\$0)	(\$0)	(\$0)	(\$0)	(\$8)	(\$947)
27	Natural Gas Leak Abatement Program Balancing Account (Transmission)	(\$902)	(\$247)	(\$97)	(\$9)	(\$2)	\$0	(\$356)	(\$32)	(\$176)	(\$1)	(\$331)	(\$1)	(\$0)	(\$4)	(\$0)	(\$0)	(\$0)	(\$0)	(\$4)	(\$546)
28	New Environmental Regulations Balancing Account(Distribution)	\$19,573	\$15,499	\$3,233	\$114	\$16	\$30	\$18,891	\$444	\$147	\$0	\$87	\$0	\$0	\$0	\$0	\$2	\$0	\$1	\$0	\$681
29	Engineering Critical Assessment Balancing Account	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	GT&S Revenue Sharing Mechanism	(\$23,391)	(\$8,116)	(\$3,197)	(\$301)	(\$82)	\$0	(\$11,695)	(\$588)	(\$3,245)	(\$43)	(\$7,723)	(\$12)	(\$5)	(\$72)	(\$1)	(\$2)	(\$1)	(\$2)	(\$80)	(\$11,695)
31	CFCA/NCA - NGSS Enduser Sub Acct Recovery	\$5,979	\$1,636	\$645	\$61	\$16	\$0	\$2,358	\$211.88	\$1,169.29	\$9.46	\$2,196.07	\$4.26	\$1.97	\$25.96	\$0.50	\$0.82	\$0.48	\$0.55	\$29	\$3,621
32	Self Gen Incentive Program Forecast Period Cost	\$12,990	\$3,573	\$1,408	\$132	\$36	\$0	\$5,149	\$463	\$2,553	\$21	\$4,795	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,841
33	NCA - NGSS Enduser Sub Acct Recovery	\$11,949	\$0	\$0	\$0	\$0	\$0	\$0	\$781	\$4,861	\$46	\$6,130	\$21	\$7	\$94	\$2	\$3	\$2	\$2	\$104	\$11,949
34	Natural Gas Leak Abatement Program Balancing Account (Distribution)	(\$1,508)	(\$1,194)	(\$249)	(\$9)	(\$1)	(\$2)	(\$1,456)	(\$34)	(\$11)	\$0	(\$7)	\$0	\$0	\$0	\$0	(\$0)	\$0	(\$0)	\$0	(\$53)
35	Subtotals of Items Transferred to CFCA and NCA	\$324,405	\$258,457	\$54,207.24	\$1,933.67	\$273.17	\$498	\$315,369	(\$4,887)	\$5,480.36	\$50.25	\$8,294.76	\$30.33	\$7.04	\$96.10	\$1.76	(\$21.07)	\$1.58	(\$17.21)	\$106	\$9,036
36	Franchise Fees and SF Gross Receipts and Uncoll. Exp. on Items Above	\$3,762	\$3,158	\$659	\$23	\$3	\$6	\$3,849	(\$79)	(\$7)	(\$0)	(\$0)	\$0	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$0)	(\$87)
37	Subtotals with FF&U and Other Bal. Acct./Forecast Period Costs	\$328,167	\$261,615	\$54,866	\$1,957	\$276	\$504	\$319,217	(\$4,966)	\$5,473	\$50	\$8,294	\$30	\$7	\$96	\$2	(\$21)	\$2	(\$17)	\$106	\$8,949
38	Total of Items Collected via CFCA, NCA, and NDFCA	\$2,403,782	\$1,905,180	\$397,665	\$14,091	\$1,971	\$3,659	\$2,322,566	\$42,152	\$21,097	\$50	\$17,488	\$30	\$7	\$96	\$2	\$163	\$2	\$130	\$106	\$81,216

	CUSTOMER CLASS COSTS WITH THEIR OWN RATE COMPONENTS ALLOCATED USING BCAP THROUGHPUT	TOTAL	Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
39	CEE Incentive	\$8,114	\$7,080	\$943	\$20	\$1	\$0	\$8,044	\$50	\$3	\$0	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
40	AB32 ARB Implementation Fee	\$8,647	\$2,994	\$1,179	\$111	\$30	\$0	\$4,314	\$388	\$2,136	\$17	\$1,784	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,332
41	CA Solar Hot Water Heating	\$7,916	\$3,008	\$1,495	\$141	\$38	\$0	\$4,682	\$491	\$2,711	\$22	\$0	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,234
42	AB32 GHG Operations Cost	\$12,347	\$3,379	\$1,331	\$125	\$34	\$0	\$4,869	\$438	\$2,415	\$20	\$4,535	\$9	\$4	\$54	\$1	\$2	\$1	\$1	\$60	\$7,478
43	AB32 GHG Compliance Cost	\$173,672	\$98,247	\$38,483	\$3,440	\$978	\$0	\$141,148	\$12,435	\$13,336	\$72	\$6,426	\$256	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32,524
44	AB32 Cap & Trade - Allowance Return (Incl. RF&U)	(\$159,753)	(\$159,753)	\$0	\$0	\$0	\$0	(\$159,753)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	CPUC FEE	\$11,661	\$4,967	\$1,953	\$184	\$50	\$0	\$7,155	\$643	\$3,550	\$29	\$271	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,506
46	Subtotals for Customer Class Charge Items	\$62,604	(\$40,077)	\$45,385	\$4,021	\$1,131	\$0	\$10,460	\$14,445	\$24,150	\$159	\$13,033	\$295	\$4	\$54	\$1	\$2	\$1	\$1	\$60	\$52,145
47	Franchise Fees and SF Gross Receipts and Uncoll. Exp. on Items Above	\$2,973	\$1,600	\$607	\$54	\$15	\$0	\$2,276	\$193	\$323	\$2	\$174	\$4	\$0	\$1	\$0	\$0	\$0	\$0	\$1	\$697
48	Subtotals of Other Costs	\$65,577	(\$38,477)	\$45,991	\$4,075	\$1,147	\$0	\$12,735	\$14,638	\$24,473	\$161	\$13,208	\$299	\$4	\$54	\$1	\$2	\$1	\$1	\$60	\$52,842
49	Allocation of Total Transportation Costs prior to GT&S-related Costs	\$2,469,360	\$1,866,703	\$443,656	\$18,166	\$3,118	\$3,659	\$2,335,302	\$56,790	\$45,571	\$211	\$30,695	\$329	\$11	\$150	\$3	\$164	\$3	\$131	\$167	\$134,058

Attachment 5 (continued)

	CUSTOMER CLASS COST FOR 2019 GT&S LISA ALLOCATED BASED ON 2020 GT&S THROUGHPUT	TOTAL	Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
50	Local Transmission Expense (Forecast Period Cost)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	Local Transmission Balancing Account	\$4,168	\$5,927	\$2,533	\$222	\$105	\$0	\$8,788	(\$447)	(\$3,029)	\$0	(\$1,069)	(\$14)	(\$4)	(\$53)	(\$1)	(\$2)	(\$1)	(\$1)	(\$58)	(\$4,620)
52	Backbone Transmission Expense (Forecast Period Cost)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
53	Backbone Transmission Balancing Account	\$6,595	\$9,096	\$3,888	\$341	\$161	\$0	\$13,487	(\$504)	(\$3,419)	(\$36)	(\$2,848)	(\$16)	(\$4)	(\$59)	(\$1)	(\$2)	(\$1)	(\$1)	(\$65)	(\$6,892)
54	Storage (Forecast Period Cost)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
55	Storage Balancing Account	\$43,007	\$27,914	\$11,930	\$1,048	\$495	\$0	\$41,387	\$119	\$804	\$8	\$670	\$4	\$1	\$14	\$0	\$0	\$0	\$0	\$15	\$1,620
56	Subtotal of 2019 GT&S LISA in 2020 Rates	\$53,769	\$42,937	\$18,351	\$1,611	\$762	\$0	\$63,661	(\$833)	(\$5,645)	(\$27)	(\$3,248)	(\$27)	(\$7)	(\$98)	(\$2)	(\$3)	(\$1)	(\$2)	(\$108)	(\$9,892)

	GT&S Pension		Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
57	GT&S Pension Including FF&U	\$18,013	\$7,309	\$2,880	\$271	\$73	\$0	\$10,533	\$505	\$2,789	\$11	\$4,092	\$10	\$5	\$62	\$1	\$2	\$1	\$1	\$69	\$7,480
58	Net End-User Transportation Excluding LT and CAC	\$2,541,142	\$1,916,949	\$464,887	\$20,048	\$3,953	\$3,659	\$2,409,496	\$56,462	\$42,715	\$195	\$31,539	\$313	\$9	\$114	\$2	\$163	\$2	\$130	\$128	\$131,646

	ADOPTED REVENUE REQUIREMENTS ALLOCATIONS FOR GAS ACCORD ITEMS IN TRANSPORTATION	TOTAL	Residential*	Small Commercial*	Large Commercial	Core NGV	Compression Cost for G-NGV2	Subtotal Core	Industrial Distribution	Industrial Transmission	Industrial Backbone	Electric Gen	Noncore NGV	Coalinga Alto	Palo Alto	Alpine Natural Gas	WC Gas Mather**	Island Energy	WC Gas Castle**	All Other Wholesale	Noncore & Wholesale
59	Local Transmission (w/applied seed value)	856,625	397,193	169,757	14,906	7,049		588,905	25,894	175,526		61,962	830	215	3,043	53	91	44	63	3,355	267,720
60	Customer Access Charge	2,404	0	0	0			0	0	1,346	15	991		8	27	2	4	6	5	43	2,404
61	Total End-User Gas Accord Transportation Costs	859,029	397,193	169,757	14,906	7,049	0	588,905	25,894	176,872	15	62,953	830	223	3,070	55	95	50	68	3,398	270,125
62	Gross End-User Transportation Costs in Rates	3,400,171	2,314,142	634,644	34,954	11,003	3,659	2,998,401	82,356	219,587	209	94,493	1,143	232	3,184	57	258	52	198	3,525	401,770
63	Less Forecast CARE Discount recovered in PPP Surcharges	129,374		129,374				129,374													0
64	Net End-User Transportation Costs in Rates	3,270,797	2,184,768	634,644	34,954	11,003	3,659	2,869,027	82,356	219,587	209	94,493	1,143	232	3,184	57	258	52	198	3,525	401,770

[illegible]

	Total RRQ	2,241,409	679,626	38,246	11,930	3,659	2,974,870	97,145	280,715	704	94,493	1,379	232	3,184	57	258	52	198	3,525	478,418
	TOTAL GAS REVENUE REQUIREMENT AND PPPS FUNDING REQUIREMENT IN RATES	3,762,124																		
80	Total Transportation, PPPS,and Unbundled Costs	\$3,762,124	(Total of lines 78 + 79)																	
81	Cross-check with Gas Revenue Requirement Table	\$3,762,124	Rev Req Model Output_Values tab or Attachment 1 Line 35																	
82	Difference	0																		
83		0																		
84																				

Attachment 6

Gas Transmission and Storage Rates

APPENDIX H:

RATES

APPENDIX H
Pacific Gas and Electric Company
2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
Rates
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2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
APPENDIX H: Table 1
PACIFIC GAS AND ELECTRIC COMPANY
Adopted GT&S Revenue Requirement
Including Core and Noncore Revenue Responsibility
(\$ Thousand)

Line No.		2015 GT&S	2019 Gas Transmission & Storage Rate Case			
		Rate Case 2018	2019	2020	2021	2022
Core Revenue Requirements						
1	Backbone Transmission Base	130,370	152,847	175,189	183,231	191,351
2	Backbone Transmission Adders	-	-	-	-	-
3	Subtotal Backbone Transmission	130,370	152,847	175,189	183,231	191,351
4	Local Transmission Base	536,850	551,496	588,905	624,560	650,937
5	Local Transmission Adder	-	-	-	-	-
6	Subtotal Local Transmission	536,850	551,496	588,905	624,560	650,937
7	Storage	76,868	118,576	51,211	24,788	24,377
8	Customer Access Charge	-	-	-	-	-
9	Total Core GT&S	\$744,087	\$822,920	\$815,305	\$832,579	\$866,665
10	NGSS Enduser Depreciation/Decommissioning	\$0	\$27,269	\$27,503	\$27,522	\$27,538
11	Total Core	\$744,087	\$850,189	\$842,809	\$860,101	\$894,203
12	Core Share of Revenue Requirement	60.4%	63.5%	58.5%	56.3%	56.2%
Noncore / Unbundled Revenue Requirements						
13	Backbone Trans. Base w/o G-XF Contracts	211,111	199,624	298,647	351,899	365,928
14	Backbone Transmission Adders	-	-	-	-	-
15	Subtotal Backbone Transmission	211,111	199,624	298,647	351,899	365,928
16	G-XF Contracts	5,972	5,356	5,617	5,790	5,904
17	G-XF Contract Adders	-	-	-	-	-
18	G-XF Contracts Subtotal	5,972	5,356	5,617	5,790	5,904
19	Subtotal Backbone Transmission	217,083	204,980	304,264	357,689	371,832
20	Local Transmission Base	255,490	247,789	267,720	285,766	301,851
21	Local Transmission Adder	-	-	-	-	-
22	Subtotal Local Transmission	255,490	247,789	267,720	285,766	301,851
23	Storage	13,783	17,179	4,573	-	-
24	Customer Access Charge	2,507	2,428	2,404	2,369	2,331
25	Total Noncore / Unbundled	\$488,863	\$472,376	\$578,961	\$645,824	\$676,014
26	NGSS Enduser Depreciation/Decommissioning	0	9,679	9,762	9,769	9,775
27	Total Noncore/Unbundled	\$488,863	\$482,055	\$588,724	\$655,593	\$685,788
28	Noncore Share of Revenue Requirement	39.6%	36.5%	41.5%	43.7%	43.8%
Total						
29	Backbone Transmission Base w/o G-XF Contracts	341,481	352,472	473,836	535,129	557,279
30	Backbone Transmission Adders	-	-	-	-	-
31	Subtotal Backbone Trans. w/o G-XF Contracts	341,481	352,472	473,836	535,129	557,279
32	G-XF Contracts	5,972	5,356	5,617	5,790	5,904
33	G-XF Contract Adders	-	-	-	-	-
34	G-XF Contracts Subtotal	5,972	5,356	5,617	5,790	5,904
35	Subtotal Backbone Transmission	347,453	357,828	479,453	540,920	563,182
36	Local Transmission Base	792,339	799,286	856,625	910,326	952,788
37	Local Transmission Adder	-	-	-	-	-
38	Subtotal Local Transmission	792,339	799,286	856,625	910,326	952,788
39	Storage	90,651	135,756	55,784	24,788	24,377
40	Customer Access Charge	2,507	2,428	2,404	2,369	2,331
41	Total GT&S	\$1,232,950	\$1,295,297	\$1,394,266	\$1,478,402	\$1,542,678
42	NGSS Enduser Depreciation/Decommissioning	0	36,948	37,266	37,291	37,313
43	Total Gas Transmission and Storage System	\$1,232,950	\$1,332,245	\$1,431,532	\$1,515,693	\$1,579,991
44	Total Revenue Requirement Share	100.0%	100.0%	100.0%	100.0%	100.0%

2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
APPENDIX H: Table 2
PACIFIC GAS AND ELECTRIC COMPANY
Adopted 2019 GT&S Undercollection (\$)
Amortization Over 15 Months Beginning October 1, 2019

		2018 Authorized ⁽¹⁾	2019 Adopted	Total Annual Undercollection	9 Months (January - September)	Annualized (12 Month) RRQ ⁽²⁾
Line	Core	A	B	C = B - A	D = C / 12 * 9	E = D / 15 * 12
1	Local Transmission	536,849,533	551,496,496	14,646,963	10,985,222	8,788,178
2	Storage (Includes Carrying Cost on Working Gas)	76,867,779	118,576,498	41,708,719	31,281,539	25,025,231
3	Backbone	130,369,750	152,847,345	22,477,595	16,858,196	13,486,557
4	NGSS End-User Depreciation/Decommissioning	-	27,269,036	27,269,036	20,451,777	16,361,421
5	Subtotal	744,087,061	850,189,374	106,102,313	79,576,734	63,661,388
	Noncore					
6	Local Transmission	255,489,864	247,789,094	(7,700,770)	(5,775,578)	(4,620,462)
7	Storage (Includes Carrying Cost on Working Gas)	13,783,258	17,179,230	3,395,972	2,546,979	2,037,583
8	Backbone (Excludes G-XF)	211,110,783	199,624,284	(11,486,499)	(8,614,874)	(6,891,899)
9	NGSS End-User Depreciation/Decommissioning	-	9,679,126	9,679,126	7,259,344	5,807,475
10	Subtotal	480,383,905	474,271,733	(6,112,171)	(4,584,129)	(3,667,303)
11	Line 401 G-XF Contracts	5,972,059	5,356,026	(616,033)	(462,025)	(369,620)
12	Customer Access Charge - Transmission	2,507,174	2,427,739	(79,435)	(59,577)	(47,661)
13	Total 2019 GT&S Undercollection RRQ	\$ 1,232,950,199	\$ 1,332,244,871	\$ 99,294,673	\$ 74,471,004	\$ 59,576,804

- Notes:
- (1) The GT&S revenues collected in rates for 2019 pending implementation of the 2019 GT&S Decision are based upon the 2018 Authorized Revenue Requirement (RRQ) from the 2015 GT&S Rate Case Decision, which did not include a revenue requirement for Line 407. Authorized amounts pursuant to Gas Preliminary Statement Part C2, revised Cal. P.U.C. Sheet No. 34769-G, as filed in Advice 4053-G. The difference between this amount and the Adjusted Authorized RRQ for 2018 as shown in Appendix C: Table 1 is due to adjustments made outside of GT&S rate cases not yet reflected in rates. See footnote 1, Appendix C: Table 1 for details.
 - (2) The 2019 Authorized GT&S RRQ does not include any prior period (i.e. 2017 and 2018) Line 407 recovery.
 - (3) Late Implementation Amortization is collected in end-user rates pursuant to Gas Preliminary Statement Part DD, Gas Transmission & Storage Memorandum Account (GTSMA).

Reconciliation to Attachment 1, Line 24, Total 2019 GT&S Late Implementation	
Total 2019 GT&S Undercollection, Annualized RRQ (see above)	\$ 59,576,804
Less: Non-Core NGSS End-User Depreciation/Decommissioning (see above)	\$ (5,807,475)
Total as shown in Attachment 1, Line 25, Total 2019 GT&S Late Implementation	\$ 53,769,328

2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
APPENDIX H: Table 3
PACIFIC GAS AND ELECTRIC COMPANY
Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months
End-Use Class Average Rates (\$/dth) (5)/(7)

Line No.	Rates Effective Jan 1, 2019 (net of 2015 GT&S Late Implementation)						Illustrative Average Rates Effective 2020 with Adopted 2019 GT&S (Year 2020 Components)			Illustrative Average Rates Effective 2021 with Adopted 2019 GT&S (Year 2021 Components)			Illustrative Average Rates Effective 2022 with Adopted 2019 GT&S (Year 2022 Components)		
	Jan 1, 2019 (1)	Implementation (2)	% Change due to Removal of 2015 GT&S Late Implementation	2019 with Adopted 2019 GT&S (Year 2019 Components)	\$ Change (6)	% Change	Components)	\$ Change (6)	% Change	Components)	\$ Change (6)	% Change	Components)	\$ Change (6)	% Change
	A	B	C = (B - A) / A	D	E = D - B	F = E / B	G	H = G - D	I = H / D	J	K = J - G	L = K / G	M	N = M - J	O = N / J
Core Retail Bundled Service (3)(8)															
1 Residential Non-CARE*	16.086	15.588	-3.1%	16.299	0.711	4.6%	16.304	0.006	0.0%	16.153	-0.151	-0.9%	16.291	0.139	0.9%
2 Small Commercial Non-CARE*	11.195	10.697	-4.5%	11.329	0.631	5.9%	11.361	0.033	0.3%	11.222	-0.139	-1.2%	11.358	0.136	1.2%
3 Large Commercial	8.492	7.994	-5.9%	8.535	0.541	6.8%	8.615	0.080	0.9%	8.496	-0.119	-1.4%	8.628	0.132	1.6%
4 Uncompressed Core NGV	6.938	6.439	-7.2%	6.964	0.525	8.2%	7.052	0.088	1.3%	6.936	-0.116	-1.6%	7.067	0.131	1.9%
5 Compressed Core NGV	21.694	21.195	-2.3%	21.870	0.675	3.2%	21.959	0.089	0.4%	21.843	-0.116	-0.5%	21.975	0.132	0.6%
Core Retail Transport Only (4)															
6 Residential Non-CARE*	12.936	12.437	-3.9%	12.901	0.464	3.7%	13.062	0.161	1.2%	12.971	-0.091	-0.7%	13.080	0.108	0.8%
7 Small Commercial Non-CARE*	8.209	7.710	-6.1%	8.127	0.416	5.4%	8.287	0.161	2.0%	8.196	-0.092	-1.1%	8.304	0.108	1.3%
8 Large Commercial	5.793	5.295	-8.6%	5.677	0.382	7.2%	5.838	0.160	2.8%	5.746	-0.092	-1.6%	5.855	0.108	1.9%
9 Uncompressed Core NGV	4.261	3.762	-11.7%	4.135	0.373	9.9%	4.295	0.160	3.9%	4.204	-0.092	-2.1%	4.312	0.108	2.6%
10 Compressed Core NGV	19.017	18.518	-2.6%	19.041	0.523	2.8%	19.203	0.162	0.8%	19.111	-0.091	-0.5%	19.220	0.109	0.6%
Noncore Retail Transportation Only (4)															
11 Industrial – Distribution	3.757	3.565	-5.1%	3.665	0.100	2.8%	3.746	0.080	2.2%	3.824	0.078	2.1%	3.868	0.044	1.1%
12 Industrial – Transmission	2.128	1.936	-9.0%	2.034	0.098	5.1%	2.115	0.080	4.0%	2.193	0.078	3.7%	2.237	0.044	2.0%
13 Industrial – Backbone	1.034	1.038	0.4%	1.062	0.024	2.3%	1.062	0.000	0.0%	1.061	-0.002	-0.1%	1.061	0.000	0.0%
14 Uncompressed Noncore NGV – Distribution	3.603	3.411	-5.3%	3.511	0.100	2.9%	3.592	0.080	2.3%	3.670	0.078	2.2%	3.714	0.044	1.2%
15 Uncompressed Noncore NGV – Transmission	1.966	1.774	-9.8%	1.873	0.098	5.5%	1.953	0.080	4.3%	2.031	0.078	4.0%	2.075	0.044	2.1%
16 Electric Generation – Distribution/Transmission	1.679	1.487	-11.4%	1.590	0.102	6.9%	1.670	0.080	5.1%	1.748	0.078	4.7%	1.792	0.044	2.5%
17 Electric Generation – Backbone	0.681	0.686	0.6%	0.710	0.024	3.5%	0.710	0.000	0.0%	0.709	-0.002	-0.2%	0.709	0.000	0.0%
Wholesale Transportation Only (4)															
18 Alpine Natural Gas	1.644	1.452	-11.7%	1.556	0.103	7.1%	1.636	0.080	5.2%	1.714	0.078	4.8%	1.758	0.043	2.5%
19 Coalinga	1.648	1.456	-11.7%	1.559	0.103	7.1%	1.640	0.080	5.2%	1.718	0.078	4.8%	1.761	0.043	2.5%
20 Island Energy	1.759	1.567	-10.9%	1.648	0.080	5.1%	1.727	0.080	4.8%	1.805	0.077	4.5%	1.847	0.042	2.4%
21 Palo Alto	1.622	1.430	-11.8%	1.530	0.100	7.0%	1.610	0.080	5.3%	1.688	0.078	4.9%	1.732	0.044	2.6%
22 West Coast Gas - Castle	3.687	3.495	-5.2%	3.593	0.098	2.8%	3.673	0.080	2.2%	3.751	0.078	2.1%	3.794	0.043	1.1%
23 West Coast Gas - Mather D	4.301	4.109	-4.5%	4.212	0.103	2.5%	4.292	0.080	1.9%	4.370	0.078	1.8%	4.413	0.043	1.0%
24 West Coast Gas - Mather T	1.658	1.466	-11.6%	1.569	0.103	7.0%	1.649	0.080	5.1%	1.727	0.078	4.7%	1.771	0.043	2.5%

* CARE customers receive a 20 % discount on transportation and procurement and are exempt from CARE and CSI Solar Water Heater rate components.

Notes:

- January 1, 2019 rates are based on PG&E's January 1, 2019 rate change filing per Advice Letter 4053-G with adopted 2018 GT&S components.
- 2015 GT&S Late Implementation Amortization charge removed from rates effective August 1, 2019 pursuant to Decision 16-06-056.
- PG&E's bundled gas service is available to core customers only. Intrastate backbone transmission and storage costs addressed in this proceeding are included in end-use rates paid by bundled core customers. Bundled service also includes a procurement cost for gas purchases, shrinkage, transportation on Canadian and Interstate pipelines, core brokerage, and franchise fees and uncollectibles expense. The illustrative annual average rates for these elements are based on the illustrative revenue requirements shown on PG&E's Preliminary Statement Part C2. Core bundled rates also includes the cost of transportation and delivery of gas from the citygate to the customer's burnerip, including local transmission, distribution, customer access, public purpose, and mandated programs and other charges.
- PG&E's transportation-only gas service is for core and noncore customers. Transportation-only service begins at PG&E's citygate and includes the applicable costs of gas transportation and delivery on PG&E's local transmission, including distribution, customer access, public purpose programs and customer class charges. Transportation-only rates exclude backbone transmission and storage costs.
- Rates are class average rates. Actual transportation rates will vary depending on the customer's load factor and seasonal usage. Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- Dollar differences are due to rounding.
- Billed Transportation rate paid by all customers includes an additional GHG Compliance Cost and Operational Cost component equal to \$0.4781 and \$0.0268 respectively, as of January 1, 2019. Covered Entities within classes and the wholesale class (i.e. customers that currently have a direct obligation to pay for allowances directly to the Air Resources Board) will see a line credit on their bill equal to the GHG Compliance Cost (\$0.4781 as of January 1, 2019) per decatherm times their monthly billed decatherms.
- Beginning 2020, the core bundled end-user rates represent a weighted average of the January and April storage rate components as provided on Tables 6 through 11.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 4

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

End-Use Noncore and Wholesale Class Average Rates with Procurement Proxy (\$/dth) (1)(4)(6)

Line No.		Noncore Retail with Procurement Proxy (1)					Wholesale with Procurement Proxy (1)			Wholesale with Procurement Proxy (1)			Wholesale with Procurement Proxy (1)			
		Rates Effective Jan 1, 2019 (2)	Rates Effective Jan 1, 2019 (net of 2015 GT&S Late Implementation) (3)	% Change due to Removal of 2015 GT&S Late Implementation	Illustrative Rates Effective October 2019 with Adopted 2019 GT&S (Year 2019 Components)	\$ Change (5)	% Change	Illustrative Average Rates Effective 2020 with Adopted 2019 GT&S (Year 2020 Components)	\$ Change (5)	% Change	Illustrative Average Rates Effective 2021 with Adopted 2019 GT&S (Year 2021 Components)	\$ Change (5)	% Change	Illustrative Average Rates Effective 2022 with Adopted 2019 GT&S (Year 2022 Components)	\$ Change (5)	% Change
		A	B	C = (B - A) / A	D	E = D - B	F = E / B	G	H = G - D	I = H / D	J	K = J - G	L = K / G	M	N = M - J	O = N / J
1	Industrial – Distribution	6.297	6.105	-3.0%	6.266	0.161	2.6%	6.403	0.14	2.2%	6.505	0.102	1.6%	6.571	0.066	1.0%
2	Industrial – Transmission	4.668	4.476	-4.1%	4.635	0.159	3.6%	4.772	0.14	2.9%	4.874	0.102	2.1%	4.940	0.066	1.3%
3	Industrial – Backbone	3.574	3.578	0.1%	3.663	0.085	2.4%	3.719	0.06	1.5%	3.742	0.023	0.6%	3.764	0.022	0.6%
4	Uncompressed Noncore NGV – Distribution	6.143	5.951	-3.1%	6.112	0.161	2.7%	6.249	0.14	2.2%	6.351	0.102	1.6%	6.417	0.066	1.0%
5	Uncompressed Noncore NGV – Transmission	4.506	4.314	-4.3%	4.474	0.159	3.7%	4.610	0.14	3.1%	4.713	0.102	2.2%	4.778	0.066	1.4%
6	Electric Generation – Distribution/Transmission	4.220	4.028	-4.6%	4.191	0.163	4.0%	4.327	0.14	3.3%	4.430	0.102	2.4%	4.495	0.066	1.5%
7	Electric Generation – Backbone	3.222	3.226	0.1%	3.311	0.085	2.6%	3.367	0.06	1.7%	3.390	0.023	0.7%	3.412	0.022	0.7%
8	Alpine Natural Gas	4.185	3.993	-4.6%	4.157	0.164	4.1%	4.293	0.14	3.3%	4.395	0.102	2.4%	4.461	0.066	1.5%
9	Coalinga	4.188	3.996	-4.6%	4.160	0.164	4.1%	4.297	0.14	3.3%	4.399	0.102	2.4%	4.465	0.066	1.5%
10	Island Energy	4.299	4.107	-4.5%	4.249	0.141	3.4%	4.385	0.14	3.2%	4.486	0.101	2.3%	4.550	0.065	1.4%
11	Palo Alto	4.162	3.970	-4.6%	4.131	0.161	4.0%	4.267	0.14	3.3%	4.370	0.102	2.4%	4.436	0.066	1.5%
12	West Coast Gas - Castle	6.227	6.035	-3.1%	6.194	0.159	2.6%	6.330	0.14	2.2%	6.432	0.102	1.6%	6.497	0.065	1.0%
13	West Coast Gas - Mather D	6.841	6.649	-2.8%	6.812	0.164	2.5%	6.949	0.14	2.0%	7.051	0.102	1.5%	7.117	0.066	0.9%
14	West Coast Gas - Mather T	4.198	4.006	-4.6%	4.170	0.164	4.1%	4.307	0.14	3.3%	4.409	0.102	2.4%	4.474	0.066	1.5%

Notes:

- Among PG&E's bundled core classes, the NGV load profile most closely resembles that of noncore classes. Therefore, the average NGV procurement rate (excluding bundled storage) is used as a proxy for what noncore customers pay to third party marketers and brokers.
- January 1, 2019 rates are based on PG&E's January 1, 2019 rate change filing per Advice Letter 4053-G with adopted 2018 GT&S components.
- 2015 GT&S Late Implementation Amortization charge removed from rates effective August 1, 2019 pursuant to Decision 16-06-056.
- Rates are class average rates. Actual transportation rates will vary depending on the customer's load factor and seasonal usage. Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- Dollar differences are due to rounding.
- Billed Transportation rate paid by all customers includes an additional GHG Compliance Cost and Operational Cost component equal to \$0.4781 and \$0.0268 respectively, as of January 1, 2019. Covered Entities within classes and the wholesale class (i.e. customers that currently have a direct obligation to pay for allowances directly to the Air Resources Board) will see a line credit on their bill equal to the GHG Compliance Cost (\$0.4781 as of January 1, 2019) per decatherm times their monthly billed decatherms.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 5

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

Rates Effective October 1, 2019 with Adopted 2019 GT&S Rates (2019 Components) By End-Use Customer Class (a)(b)
(\$/dth)

	Core					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial Dist	Industrial Trans	Natural Gas Vehicle BB	Natural Gas Vehicle Dist	Natural Gas Vehicle Trans	Electric Gen D/T	Electric Gen BB
End-Use Transportation:												
Local Transmission	2.0198	2.0198	2.0198	2.0198	2.0198	0.9226	0.9226	0.0000	0.9226	0.9226	0.9226	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1098	0.0619	0.0283	0.0185	0.1686	0.0217	0.0217	0.0217	0.0217	0.0217	0.0217	0.0217
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (d)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (e)	0.2332	0.2332	0.2332	0.2332	0.2332	(0.0157)	(0.0157)	0.0015	(0.0157)	(0.0157)	(0.0157)	0.0015
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6663	0.1024	0.0000	1.6663	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	11.9966	7.1058	4.6783	3.8417	18.7599	3.1914	1.6829	0.7101	3.1914	1.5840	1.5811	0.7072
CAC - Class Avg Volumetric Equivalent (c)		0.5888	0.0449	0.0120	0.0000	0.0388	0.0076	0.0081	0.0388	0.0076	0.0086	0.0026
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0.0000	0.0000
Total Rate	12.9013	8.1265	5.6774	4.1348	19.0410	3.6652	2.0344	1.0621	3.5112	1.8727	1.5897	0.7098
Procurement Charges for Core Bundled Customers:												
Storage	0.4148	0.3512	0.2434	0.2282	0.2282							
Backbone Capacity	0.3605	0.3006	0.1931	0.1871	0.1871							
Backbone Usage	0.1464	0.1464	0.1464	0.1464	0.1464							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5756	0.5037	0.3746	0.3674	0.3674							
Total Core Procurement	3.3974	3.2020	2.8577	2.8292	2.8292							
Total Core Bundled Rates	16.2987	11.3285	8.5351	6.9640	21.8702							
Wholesale Transportation												
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans					
End-Use Transportation:												
Local Transmission	0.9226	0.9226	0.9226	0.9226	0.9226	0.9226	0.9226					
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049					
2019 Storage Transition Costs Recovery	0.0217	0.0217	0.0217	0.0217	0.0217	0.0217	0.0217					
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744					
2015 GT&S Late Implementation Amortization (d)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2019 GT&S Late Implementation Amortization (e)	(0.0157)	(0.0157)	(0.0157)	(0.0157)	(0.0157)	(0.0157)	(0.0157)					
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128					
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000					
Volumetric Rate - Annual Average	1.5207	1.5207	1.5207	1.5207	3.5163	4.1632	1.5207					
CAC - Class Avg Volumetric Equivalent (c)	0.0352	0.0385	0.1268	0.0091	0.0767	0.0484	0.0484					
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
Total Rate	1.5559	1.5592	1.6476	1.5298	3.5930	4.2115	1.5691					

Notes:

- Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
- Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
- 2015 GT&S Late Implementation Amortization expires July 31, 2019.
- 2019 GT&S Late Implementation Amortization effective October 1, 2019.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

**APPENDIX H: Table 6
PACIFIC GAS AND ELECTRIC COMPANY**

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

**Unaveraged January 1, 2020 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)**

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial		Natural Gas Vehicle		Electric Gen		
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.1777	2.1777	2.1777	2.1777	2.1777	1.0029	1.0029	0.0000	1.0029	1.0029	1.0029	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1107	0.0624	0.0286	0.0187	0.1701	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.2354	0.2354	0.2354	0.2354	0.2354	(0.0158)	(0.0158)	0.0015	(0.0158)	(0.0158)	(0.0158)	0.0015
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6667	0.1024	0.0000	1.6667	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.1578	7.2665	4.8388	4.0021	18.9216	3.2722	1.7634	0.7103	3.2722	1.6644	1.6616	0.7074
CAC - Class Avg Volumetric Equivalent (d)		0.5888	0.0449	0.0120	0.0000	0.0384	0.0076	0.0081	0.0384	0.0076	0.0086	0.0027
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0.0000	0.0000
Total Rate	13.0625	8.2873	5.8378	4.2952	19.2027	3.7457	2.1149	1.0623	3.5917	1.9532	1.6701	0.7101
Procurement Charges for Core Bundled Customers:												
Storage	0.4625	0.3897	0.2701	0.2532	0.2532							
Backbone Capacity	0.4044	0.3372	0.2166	0.2099	0.2099							
Backbone Usage	0.1783	0.1783	0.1783	0.1783	0.1783							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5769	0.5050	0.3760	0.3687	0.3687							
Total Core Procurement	3.5223	3.3104	2.9411	2.9103	2.9103							
Total Core Bundled Rates	16.5848	11.5977	8.7789	7.2055	22.1130							
Wholesale Transportation												
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans					
End-Use Transportation:												
Local Transmission	1.0029	1.0029	1.0029	1.0029	1.0029	1.0029	1.0029					
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049					
2019 Storage Transition Costs Recovery	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219					
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744					
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2019 GT&S Late Implementation Amortization (f)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)					
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128					
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000					
Volumetric Rate - Annual Average	1.6012	1.6012	1.6012	1.6012	3.5968	4.2437	1.6012					
CAC - Class Avg Volumetric Equivalent (d)	0.0350	0.0384	0.1263	0.0090	0.0763	0.0483	0.0483					
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
Total Rate	1.6362	1.6396	1.7275	1.6102	3.6731	4.2919	1.6495					

- a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
- b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- c) Please refer to Table 3 for weighted average annual rates.
- d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
- e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.
- f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.
- g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 7

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

**Unaveraged April 1, 2020 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)**

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial		Natural Gas Vehicle		Electric Gen		
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.1777	2.1777	2.1777	2.1777	2.1777	1.0029	1.0029	0.0000	1.0029	1.0029	1.0029	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1107	0.0624	0.0286	0.0187	0.1701	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.2354	0.2354	0.2354	0.2354	0.2354	(0.0158)	(0.0158)	0.0015	(0.0158)	(0.0158)	(0.0158)	0.0015
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6667	0.1024	0.0000	1.6667	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.1578	7.2665	4.8388	4.0021	18.9216	3.2722	1.7634	0.7103	3.2722	1.6644	1.6616	0.7074
CAC - Class Avg Volumetric Equivalent (d)		0.5888	0.0449	0.0120	0.0000	0.0384	0.0076	0.0081	0.0384	0.0076	0.0086	0.0027
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0.0000	0.0000
Total Rate	13.0625	8.2873	5.8378	4.2952	19.2027	3.7457	2.1149	1.0623	3.5917	1.9532	1.6701	0.7101
Procurement Charges for Core Bundled Customers:												
Storage	0.0885	0.0746	0.0517	0.0484	0.0484							
Backbone Capacity	0.4044	0.3372	0.2166	0.2099	0.2099							
Backbone Usage	0.1783	0.1783	0.1783	0.1783	0.1783							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5769	0.5050	0.3760	0.3687	0.3687							
Total Core Procurement	3.1483	2.9952	2.7227	2.7055	2.7055							
Total Core Bundled Rates	16.2108	11.2825	8.5605	7.0007	21.9082							
Wholesale Transportation												
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans					
End-Use Transportation:												
Local Transmission	1.0029	1.0029	1.0029	1.0029	1.0029	1.0029	1.0029					
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049					
2019 Storage Transition Costs Recovery	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219					
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744					
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
2019 GT&S Late Implementation Amortization (f)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)	(0.0158)					
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128					
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000					
Volumetric Rate - Annual Average	1.6012	1.6012	1.6012	1.6012	3.5968	4.2437	1.6012					
CAC - Class Avg Volumetric Equivalent (d)	0.0350	0.0384	0.1263	0.0090	0.0763	0.0483	0.0483					
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					
Total Rate	1.6362	1.6396	1.7275	1.6102	3.6731	4.2919	1.6495					

a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.

b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.

c) Please refer to Table 3 for weighted average annual rates.

d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.

e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.

f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.

g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 8 PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

Unaveraged January 1, 2021 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial			Natural Gas Vehicle		Electric Gen	
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.3216	2.3216	2.3216	2.3216	2.3216	1.0654	1.0654	0.0000	1.0654	1.0654	1.0654	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1108	0.0625	0.0286	0.0187	0.1702	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6672	0.1024	0.0000	1.6672	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.0663	7.1750	4.7472	3.9106	18.8302	3.3511	1.8417	0.7088	3.3511	1.7427	1.7399	0.7059
CAC - Class Avg Volumetric Equivalent (d)	0.0000	0.5888	0.0449	0.0120	0.0000	0.0378	0.0074	0.0080	0.0378	0.0074	0.0085	0.0027
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0.0000	0.0000
Total Rate	12.9710	8.1958	5.7463	4.2037	19.1113	3.8240	2.1930	1.0607	3.6700	2.0313	1.7484	0.7086
Procurement Charges for Core Bundled Customers:												
Storage	0.0917	0.0772	0.0535	0.0502	0.0502							
Backbone Capacity	0.4148	0.3459	0.2222	0.2153	0.2153							
Backbone Usage	0.1963	0.1963	0.1963	0.1963	0.1963							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5777	0.5058	0.3767	0.3695	0.3695							
Total Core Procurement	3.1806	3.0254	2.7489	2.7314	2.7314							
Total Core Bundled Rates	16.1516	11.2212	8.4952	6.9351	21.8427							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission	1.0654	1.0654	1.0654	1.0654	1.0654	1.0654	1.0654
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000
Volumetric Rate - Annual Average	1.6795	1.6795	1.6795	1.6795	3.6751	4.3220	1.6795
CAC - Class Avg Volumetric Equivalent (d)	0.0347	0.0381	0.1250	0.0090	0.0755	0.0479	0.0479
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	1.7142	1.7176	1.8045	1.6885	3.7506	4.3699	1.7274

- a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
c) Please refer to Table 3 for weighted average annual rates.
d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.
f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.
g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 9

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

**Unaveraged April 1, 2021 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)**

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial		Natural Gas Vehicle		Electric Gen		
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.3216	2.3216	2.3216	2.3216	2.3216	1.0654	1.0654	0.0000	1.0654	1.0654	1.0654	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1108	0.0625	0.0286	0.0187	0.1702	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6672	0.1024	0.0000	1.6672	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.0663	7.1750	4.7472	3.9106	18.8302	3.3511	1.8417	0.7088	3.3511	1.7427	1.7399	0.7059
CAC - Class Avg Volumetric Equivalent (d)	0.0000	0.5888	0.0449	0.0120	0.0000	0.0378	0.0074	0.0080	0.0378	0.0074	0.0085	0.0027
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0	0
Total Rate	12.9710	8.1958	5.7463	4.2037	19.1113	3.8240	2.1930	1.0607	3.6700	2.0313	1.7484	0.7086
Procurement Charges for Core Bundled Customers:												
Storage	0.0933	0.0786	0.0545	0.0511	0.0511							
Backbone Capacity	0.4148	0.3459	0.2222	0.2153	0.2153							
Backbone Usage	0.1963	0.1963	0.1963	0.1963	0.1963							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5777	0.5058	0.3767	0.3695	0.3695							
Total Core Procurement	3.1822	3.0267	2.7498	2.7323	2.7323							
Total Core Bundled Rates	16.1532	11.2225	8.4961	6.9360	21.8436							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission	1.0654	1.0654	1.0654	1.0654	1.0654	1.0654	1.0654
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219	0.0219
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744
2015 GT&S Late Implementation Amortization (d)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000
Volumetric Rate - Annual Average	1.6795	1.6795	1.6795	1.6795	3.6751	4.3220	1.6795
CAC - Class Avg Volumetric Equivalent (d)	0.0347	0.0381	0.1250	0.0090	0.0755	0.0479	0.0479
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	1.7142	1.7176	1.8045	1.6885	3.7506	4.3699	1.7274

- a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
- b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- c) Please refer to Table 3 for weighted average annual rates.
- d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
- e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.
- f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.
- g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 10

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

Unaveraged January 1, 2022 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial			Natural Gas Vehicle		Electric Gen	
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.4300	2.4300	2.4300	2.4300	2.4300	1.1092	1.1092	0.0000	1.1092	1.1092	1.1092	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1108	0.0625	0.0286	0.0187	0.1703	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6678	0.1024	0.0000	1.6678	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.1748	7.2835	4.8557	4.0190	18.9387	3.3955	1.8854	0.7088	3.3955	1.7865	1.7836	0.7059
CAC - Class Avg Volumetric Equivalent (d)	0.0000	0.5888	0.0449	0.0120	0.0000	0.0372	0.0072	0.0079	0.0372	0.0072	0.0083	0.0026
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0.2811	0.0000	0.0000
Total Rate	13.0795	8.3042	5.8547	4.3121	19.2198	3.8678	2.2365	1.0606	3.7138	2.0748	1.7919	0.7085
Procurement Charges for Core Bundled Customers:												
Storage	0.0949	0.0799	0.0554	0.0519	0.0519							
Backbone Capacity	0.4282	0.3571	0.2294	0.2222	0.2222							
Backbone Usage	0.2110	0.2110	0.2110	0.2110	0.2110							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5783	0.5064	0.3773	0.3701	0.3701							
Total Core Procurement	3.2125	3.0545	2.7733	2.7554	2.7554							
Total Core Bundled Rates	16.2920	11.3587	8.6280	7.0675	21.9752							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission	1.1092	1.1092	1.1092	1.1092	1.1092	1.1092	1.1092
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000
Volumetric Rate - Annual Average	1.7233	1.7233	1.7233	1.7233	3.7188	4.3657	1.7233
CAC - Class Avg Volumetric Equivalent (d)	0.0344	0.0378	0.1237	0.0089	0.0747	0.0475	0.0475
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	1.7577	1.7611	1.8470	1.7321	3.7936	4.4133	1.7708

- a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
- b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- c) Please refer to Table 3 for weighted average annual rates.
- d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
- e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.
- f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.
- g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

**APPENDIX H: Table 11
PACIFIC GAS AND ELECTRIC COMPANY**

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

**Unaveraged April 1, 2022 Rates with Adopted 2019 GT&S Rates (January 2020 Components) By End-Use Customer Class (a)(b)(c)(g)
(\$/dth)**

(Bundled Rates are Prior to Adopted Annual Averaging)

	Core (a)					Noncore Transportation						
	Res	Small Comm	Large Comm	Uncomp. NGV	Comp. NGV	Industrial		Natural Gas Vehicle		Electric Gen		
						Dist	Trans	BB	Dist	Trans	D/T	BB
End-Use Transportation:												
Local Transmission	2.4300	2.4300	2.4300	2.4300	2.4300	1.1092	1.1092	0.0000	1.1092	1.1092	1.1092	0.0000
Self Generation Incentive Program	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180	0.0180
CPUC Fee	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0168	0.0007	0.0007
AB32 ARB Cost of Implementation Fee	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104	0.0104
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.1108	0.0625	0.0286	0.0187	0.1703	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220
Balancing Accounts	1.2869	0.7244	0.3295	0.2139	2.2000	0.0334	0.0888	0.1327	0.0334	0.0924	0.0735	0.1139
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0284	0.0284	0.0284	0.0284	0.0284	0.0128	0.0128	0.0040	0.0128	0.0128	0.0128	0.0040
Distribution - Annual Average	7.7685	3.4880	1.4890	0.7780	13.5598	1.6678	0.1024	0.0000	1.6678	0.0000	0.0321	0.0321
Volumetric Rate - Annual Average	12.1748	7.2835	4.8557	4.0190	18.9387	3.3955	1.8854	0.7088	3.3955	1.7865	1.7836	0.7059
CAC - Class Avg Volumetric Equivalent (d)	0.0000	0.5888	0.0449	0.0120	0.0000	0.0372	0.0072	0.0079	0.0372	0.0072	0.0083	0.0026
Gas Public Purpose Program Surcharge	0.9047	0.4319	0.9542	0.2811	0.2811	0.4351	0.3439	0.3439	0.2811	0	0.2811	0
Total Rate	13.0795	8.3042	5.8547	4.3121	19.2198	3.8678	2.2365	1.0606	3.7138	2.0748	1.7919	0.7085
Procurement Charges for Core Bundled Customers:												
Storage	0.0942	0.0793	0.0550	0.0516	0.0516							
Backbone Capacity	0.4282	0.3571	0.2294	0.2222	0.2222							
Backbone Usage	0.2110	0.2110	0.2110	0.2110	0.2110							
WACOG	1.9001	1.9001	1.9001	1.9001	1.9001							
Interstate Capacity and Other	0.5783	0.5064	0.3773	0.3701	0.3701							
Total Core Procurement	3.2118	3.0539	2.7728	2.7550	2.7550							
Total Core Bundled Rates	16.2913	11.3581	8.6275	7.0671	21.9748							

	Wholesale Transportation						
	Alpine	Coalinga	Island Energy	Palo Alto	WCG Castle	WCG Mather Dist	WCG Mather Trans
End-Use Transportation:							
Local Transmission	1.1092	1.1092	1.1092	1.1092	1.1092	1.1092	1.1092
Self Generation Incentive Program	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CPUC Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 ARB Cost of Implementation Fee	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AB32 Greenhouse Gas Compliance & Obligation Cost	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049	0.5049
2019 Storage Transition Costs Recovery	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220	0.0220
Balancing Accounts	0.0744	0.0744	0.0744	0.0744	0.0030	(0.0202)	0.0744
2015 GT&S Late Implementation Amortization (e)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019 GT&S Late Implementation Amortization (f)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
GT&S Pension	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128	0.0128
Distribution - Annual Average	0.0000	0.0000	0.0000	0.0000	2.0670	2.7370	0.0000
Volumetric Rate - Annual Average	1.7233	1.7233	1.7233	1.7233	3.7188	4.3657	1.7233
CAC - Class Avg Volumetric Equivalent (d)	0.0344	0.0378	0.1237	0.0089	0.0747	0.0475	0.0475
Gas Public Purpose Program Surcharge	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Rate	1.7577	1.7611	1.8470	1.7321	3.7936	4.4133	1.7708

- a) Class average rates reflect load shape for bundled core. Distribution rates represent the annual class average.
- b) Non-GT&S rate components for 2019, 2020, 2021 and 2022 are held constant at January 1, 2019 levels as filed in PG&E's 2019 AGT Advice Letter 4053-G.
- c) Please refer to Table 3 for weighted average annual rates.
- d) Customer access and customer charges represent the class average volumetric equivalent of the monthly charge.
- e) 2015 GT&S Late Implementation Amortization expires July 31, 2019.
- f) 2019 GT&S Late Implementation Amortization effective October 1, 2019.
- g) Unaveraged refers to January 1 and April 1 storage service rate changes that are averaged for collection in end-user rates.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 12

PACIFIC GAS AND ELECTRIC COMPANY Firm Backbone Transportation Annual Rates (AFT) -- SFV Rate Design On-System Transportation Service

		2018	2019	2019 GT&S Rates		2022
				2020	2021	
<u>Redwood Path - Core</u>						
Reservation Charge	(\$/dth/mo)	11.8245	13.7304	18.4477	20.8302	21.7537
Usage Charge	(\$/dth)	0.0010	0.0024	0.0027	0.0027	0.0028
Total (b)	(\$/dth @ Full Contract)	0.3898	0.4538	0.6092	0.6875	0.7180
<u>Baja Path - Core</u>						
Reservation Charge	(\$/dth/mo)	13.0380	16.7562	22.5356 ⁽¹⁾	-	-
Usage Charge	(\$/dth)	0.0011	0.0029	0.0033	-	-
Total (b)	(\$/dth @ Full Contract)	0.4298	0.5538	0.7442	-	-
<u>Redwood Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	13.6814	14.8458	20.0078	22.0809	22.7597
Usage Charge	(\$/dth)	0.0010	0.0024	0.0033	0.0035	0.0036
Total (b)	(\$/dth @ Full Contract)	0.4508	0.4905	0.6611	0.7294	0.7518
<u>Baja Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	14.8954	17.8727	24.0935	27.2272	28.2087
Usage Charge	(\$/dth)	0.0010	0.0029	0.0040	0.0043	0.0044
Total (b)	(\$/dth @ Full Contract)	0.4908	0.5905	0.7961	0.8994	0.9318
<u>Silverado and Mission Paths</u>						
Reservation Charge	(\$/dth/mo)	8.5814	10.2169	15.2032	17.3534	17.9215
Usage Charge	(\$/dth)	0.0008	0.0017	0.0025	0.0026	0.0027
Total (b)	(\$/dth @ Full Contract)	0.2829	0.3376	0.5023	0.5731	0.5919

⁽¹⁾ Core Baja G-AFT rates only available through March 2020.

Notes:

- Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 13

PACIFIC GAS AND ELECTRIC COMPANY Firm Backbone Transportation Annual Rates (AFT) -- MFV Rate Design On-System Transportation Service

		2018	2019	2019 GT&S Rates		2022
				2020	2021	
<u>Redwood Path - Core</u>						
Reservation Charge	(\$/dth/mo)	9.1607	10.3200	13.5578	15.0130	15.4990
Usage Charge	(\$/dth)	0.0886	0.1145	0.1635	0.1939	0.2084
Total	(\$/dth @ Full Contract)	0.3898	0.4538	0.6092	0.6875	0.7180
<u>Baja Path - Core</u>						
Reservation Charge	(\$/dth/mo)	10.1008	12.5942	16.5621 ⁽¹⁾	-	-
Usage Charge	(\$/dth)	0.0977	0.1397	0.1997	-	-
Total	(\$/dth @ Full Contract)	0.4298	0.5538	0.7442	-	-
<u>Redwood Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	10.1813	10.8592	14.8870	16.3309	16.7183
Usage Charge	(\$/dth)	0.1160	0.1335	0.1717	0.1925	0.2022
Total	(\$/dth @ Full Contract)	0.4508	0.4905	0.6611	0.7294	0.7518
<u>Baja Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	11.0848	13.0732	17.9270	20.1370	20.7209
Usage Charge	(\$/dth)	0.1263	0.1607	0.2067	0.2374	0.2506
Total	(\$/dth @ Full Contract)	0.4908	0.5905	0.7961	0.8994	0.9318
<u>Silverado and Mission Paths</u>						
Reservation Charge	(\$/dth/mo)	6.4307	7.4504	11.1722	12.6452	12.9629
Usage Charge	(\$/dth)	0.0715	0.0927	0.1350	0.1574	0.1657
Total	(\$/dth @ Full Contract)	0.2829	0.3376	0.5023	0.5731	0.5919

⁽¹⁾ Core Baja G-AFT rates only available through March 2020.

Notes:

- a) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- c) Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.
- d) Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 14

PACIFIC GAS AND ELECTRIC COMPANY Firm Backbone Transportation Seasonal Rates (SFT) -- SFV Rate Design On-System Transportation Service

		2018	2019	2019 GT&S Rates		2022
				2020	2021	
<u>Redwood Path - Core</u>						
Reservation Charge	(\$/dth/mo)	--	--	22.1372 ⁽¹⁾	24.9963	26.1044
Usage Charge	(\$/dth)	--	--	0.0033	0.0032	0.0034
Total	(\$/dth @ Full Contract)	--	--	0.7311	0.8250	0.8616
<u>Baja Path - Core</u>						
Reservation Charge	(\$/dth/mo)	15.6456	20.1074	27.0427	31.1770	32.6488
Usage Charge	(\$/dth)	0.0013	0.0035	0.0040	0.0040	0.0042
Total	(\$/dth @ Full Contract)	0.5157	0.6645	0.8931	1.0290	1.0776
<u>Redwood Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	16.4176	17.8150	24.0094	26.4971	27.3116
Usage Charge	(\$/dth)	0.0012	0.0029	0.0040	0.0042	0.0043
Total	(\$/dth @ Full Contract)	0.5409	0.5886	0.7933	0.8753	0.9022
<u>Baja Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	17.8745	21.4472	28.9122	32.6726	33.8504
Usage Charge	(\$/dth)	0.0013	0.0034	0.0048	0.0051	0.0053
Total	(\$/dth @ Full Contract)	0.5889	0.7086	0.9553	1.0793	1.1182
<u>Silverado and Mission Paths</u>						
Reservation Charge	(\$/dth/mo)	10.2977	12.2602	18.2438	20.8241	21.5059
Usage Charge	(\$/dth)	0.0009	0.0021	0.0030	0.0031	0.0032
Total	(\$/dth @ Full Contract)	0.3395	0.4052	0.6028	0.6878	0.7103

⁽¹⁾ Core Redwood G-SFT rates only available beginning April 2020.

Notes:

- Firm Seasonal rates are 120 percent of Firm Annual rates.
- Rates are only the backbone transmission charge component of the transmission service. They include exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.
- Firm seasonal service is available to on-system paths for a minimum term of three consecutive months in one season. Winter season is November through March. Summer season is April through October.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 15

PACIFIC GAS AND ELECTRIC COMPANY

Firm Backbone Transportation Seasonal Rates (SFT) -- MFV Rate Design On-System Transportation Service

		2018	2019	2019 GT&S Rates		2022
				2020	2021	
<u>Redwood Path - Core</u>						
Reservation Charge	(\$/dth/mo)	--	--	16.2694 ⁽¹⁾	18.0156	18.5988
Usage Charge	(\$/dth)	--	--	0.1962	0.2327	0.2501
Total	(\$/dth @ Full Contract)	--	--	0.7311	0.8250	0.8616
<u>Baja Path - Core</u>						
Reservation Charge	(\$/dth/mo)	12.1209	15.1131	19.8746	22.4702	23.2616
Usage Charge	(\$/dth)	0.1172	0.1677	0.2397	0.2903	0.3128
Total	(\$/dth @ Full Contract)	0.5157	0.6645	0.8931	1.0290	1.0776
<u>Redwood Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	12.2175	13.0310	17.8644	19.5971	20.0620
Usage Charge	(\$/dth)	0.1392	0.1601	0.2060	0.2310	0.2426
Total	(\$/dth @ Full Contract)	0.5409	0.5886	0.7933	0.8753	0.9022
<u>Baja Path - Noncore</u>						
Reservation Charge	(\$/dth/mo)	13.3017	15.6879	21.5124	24.1644	24.8651
Usage Charge	(\$/dth)	0.1516	0.1928	0.2481	0.2848	0.3007
Total	(\$/dth @ Full Contract)	0.5889	0.7086	0.9553	1.0793	1.1182
<u>Silverado and Mission Paths</u>						
Reservation Charge	(\$/dth/mo)	7.7168	8.9405	13.4066	15.1742	15.5555
Usage Charge	(\$/dth)	0.0858	0.1112	0.1620	0.1889	0.1989
Total	(\$/dth @ Full Contract)	0.3395	0.4052	0.6028	0.6878	0.7103

⁽¹⁾ Core Redwood G-SFT rates only available beginning April 2020.

Notes:

- Firm Seasonal rates are 120 percent of Firm Annual rates.
- Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- Customers delivering gas to storage pay the applicable backbone transmission on-system rate from Redwood, Baja and Silverado.
- Firm seasonal service is available to on-system paths for a minimum term of three consecutive months in one season. Winter season is November through March. Summer season is April through October.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 16

PACIFIC GAS AND ELECTRIC COMPANY

As-Available Backbone Transportation On-System Transportation Service

			2019 GT&S Rates			
			2018	2019	2020	2021
						2022
<u>Redwood Path</u>						
Usage Charge	(\$/dth)	0.5409	0.5886	0.7933	0.8753	0.9022
<u>Baja Path</u>						
Usage Charge	(\$/dth)	0.5889	0.7086	0.9553	1.0793	1.1182
<u>Silverado Path</u>						
Usage Charge	(\$/dth)	0.3395	0.4052	0.6028	0.6878	0.7103
<u>Mission Path</u>						
Usage Charge	(\$/dth)	0.0000	0.0000	0.0000	0.0000	0.0000

Notes:

- As-Available rates are 120 percent of Firm Annual rates.
- Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- Mission path service represents on-system storage to on-system transportation. Customers delivering gas to storage facilities pay the applicable backbone transmission on-system rate from Redwood, Baja or Silverado.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 17

PACIFIC GAS AND ELECTRIC COMPANY Backbone Transportation Annual Rates (AFT-Off) Off-System Deliveries

		2018	2019	2019 GT&S Rates 2020	2021	2022
<u>SFV Rate Design</u>						
Redwood, Silverado and Mission Paths Off-System						
Reservation Charge	(\$/dth/mo)	13.6814	14.8458	20.0078	22.0809	22.7597
Usage Charge	(\$/dth)	0.0010	0.0024	0.0033	0.0035	0.0036
Total	(\$/dth @ Full Contract)	0.4508	0.4905	0.6611	0.7294	0.7518
Baja Path Off-System						
Reservation Charge	(\$/dth/mo)	14.8954	17.8727	24.0935	27.2272	28.2087
Usage Charge	(\$/dth)	0.0010	0.0029	0.0040	0.0043	0.0044
Total	(\$/dth @ Full Contract)	0.4908	0.5905	0.7961	0.8994	0.9318
<u>MFV Rate Design</u>						
Redwood, Silverado and Mission Paths Off-System						
Reservation Charge	(\$/dth/mo)	10.1813	10.8592	14.8870	16.3309	16.7183
Usage Charge	(\$/dth)	0.1160	0.1335	0.1717	0.1925	0.2022
Total	(\$/dth @ Full Contract)	0.4508	0.4905	0.6611	0.7294	0.7518
Baja Path Off-System						
Reservation Charge	(\$/dth/mo)	11.0848	13.0732	17.9270	20.1370	20.7209
Usage Charge	(\$/dth)	0.1263	0.1607	0.2067	0.2374	0.2506
Total	(\$/dth @ Full Contract)	0.4908	0.5905	0.7961	0.8994	0.9318
<u>As-Available Service</u>						
Redwood, Silverado, and Mission Paths, (From Citygate) Off-System - Noncore						
Usage Charge	(\$/dth)	0.5409	0.5886	0.7933	0.8753	0.9022
Mission Paths (From on-system storage) Off-System						
Usage Charge	(\$/dth)	0.0000	0.0000	0.0000	0.0000	0.0000
Baja Path Off-System - Noncore						
Usage Charge	(\$/dth)	0.5889	0.7086	0.9553	1.0793	1.1182

Notes:

- Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- California gas and storage to off-system are assumed to flow on Redwood path and are priced at the Redwood path rate.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 18

PACIFIC GAS AND ELECTRIC COMPANY Firm Transportation Expansion Shippers -- Annual Rates (G-XF) SFV Rate Design

		2018		2019	2019 GT&S Rates		2022
<u>SFV Rate Design</u>					2020	2021	
Reservation Charge	(\$/dth/mo)	5.7955		5.1950	5.4481	5.6163	5.7262
Usage Charge	(\$/dth)	0.0001		0.0002	0.0002	0.0002	0.0002
Total	(\$/dth @ Full Contract)	0.1906		0.1710	0.1793	0.1848	0.1885

Notes:

- a) Rates are only the backbone transmission charge component of the transmission service. They exclude local transmission charges, mandated customer programs and other charges, customer access charges, distribution charges, storage charges, and shrinkage charges.
- b) The "Total" rows represent the average backbone transmission charge incurred by a firm shipper that uses its full contract quantity at a 100 percent load factor.
- c) G-XF charges are based on the embedded cost of Line 401 and a 95 percent load factor.
- d) Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 19

PACIFIC GAS AND ELECTRIC COMPANY Storage Service Rates									
		2018	2019 GT&S Rates						
			2019	2020		2021		2022	
			October	January	April	January	April	January	April
<u>Core Firm Storage (G-CFS)</u>									
Reservation Charge	(\$/dth/mo)	\$0.1913	\$0.3071	\$0.3424	\$0.4157	\$0.4306	\$0.4318	\$0.4392	\$0.4417
<u>Standard Firm Storage (G-SFS)</u>									
Reservation Charge	(\$/dth/mo)	\$0.2962	\$0.3698	\$0.3930	service no longer offered under adopted NGSS				
<u>Negotiated Firm Storage (G-NFS)</u>									
Injection	(\$/dth/d)	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236
Inventory	(\$/dth)	\$3.5541	\$3.5541	\$3.5541	\$3.5541	\$3.5541	\$3.5541	\$3.5541	\$3.5541
Withdrawal	(\$/dth/d)	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629
<u>Negotiated As-Available Storage (G-NAS) - Maximum Rate</u>									
Injection	(\$/dth/d)	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236	\$5.7236
Withdrawal	(\$/dth/d)	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629	\$26.1629
<u>Market Center Services (Parking and Lending Services)</u>									
Maximum Daily Charge	(\$/Dth/d)	\$1.1650	\$1.1650	\$1.1650	\$1.1650	\$1.1650	\$1.1650	\$1.1650	\$1.1650
Minimum Rate	(per transaction)	\$57.0000	\$57.0000	\$57.0000	\$57.0000	\$57.0000	\$57.0000	\$57.0000	\$57.0000

Notes:

- Rates for storage services are based on the costs of storage injection, inventory and withdrawal.
- Core Firm Storage (G-CFS) and Standard Firm Storage (G-SFS) rates are a monthly reservation charge designed to recover one twelfth of the annual revenue requirement allocated to those services based upon the annual capacities of injection, inventory and withdrawal storage. PG&E will no longer offer Standard Firm Storage (G-SFS) beginning April 1, 2020 with implementation of its NGSS.
- Negotiated Firm rates may be one-part rates (volumetric) or two-part rates (reservation and volumetric), as negotiated between parties. The volumetric equivalent is shown above.
- Negotiated As-Available Storage Injection and Withdrawal rates are recovered through a volumetric charge only.
- PG&E will offer negotiated rates (NFS and NAS) at the adopted 2018 maximum levels with any incidental revenue collected returned to customers via PG&E's balancing accounts.
- Negotiated Firm and As-available services are negotiable above a price floor representing PG&E's marginal costs of providing the service.
- The maximum charge for parking and lending is based on the annual cost of cycling one Dth of Firm Storage Gas assuming the full 214 day injection season and 151 day withdrawal season as adopted for 2018 in PG&E's 2015 Gas Transmission and Storage Rate Case.
- Gas Storage shrinkage will be applied in-kind on storage injections.
- Dollar differences are due to rounding.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 20

PACIFIC GAS AND ELECTRIC COMPANY

Local Transmission Rates

\$/dth

Customer Groups	2018		2019 GT&S Rates		
			2019	2020	2021
					2022
Core Retail Local Transmission	1.8988		2.0198	2.1777	2.3216
Noncore Retail and Wholesale	0.8286		0.9226	1.0029	1.0654
					1.1092

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 21

PACIFIC GAS AND ELECTRIC COMPANY

Customer Access Charge Rates

(\$ per Month)

		<u>2018</u>	<u>2019</u>	<u>2019 GT&S Rates</u>		<u>2022</u>
				<u>2020</u>	<u>2021</u>	
<u>G-EG / G-NT (\$/month)</u>						
	Average Monthly Therms Over 12 Months					
Tier 1	0 to 5,000	\$33.73	\$29.95	\$29.66	\$29.23	\$28.76
Tier 2	5,001 to 10,000	\$100.46	\$89.23	\$88.36	\$87.06	\$85.68
Tier 3	10,001 to 50,000	\$186.98	\$166.07	\$164.46	\$162.04	\$159.48
Tier 4	50,001 to 200,000	\$245.39	\$217.95	\$215.84	\$212.65	\$209.30
Tier 5	200,001 to 1,000,000	\$356.04	\$316.23	\$313.16	\$308.54	\$303.67
Tier 6	1,000,001 and above	\$3,020.14	\$2,682.42	\$2,656.42	\$2,617.24	\$2,575.91
<u>Wholesale (\$/month)</u>						
Alpine		\$161.51	\$156.39	\$154.87	\$152.59	\$150.18
Coalinga		\$714.31	\$691.68	\$684.98	\$674.88	\$664.22
Island Energy		\$483.98	\$468.65	\$464.11	\$457.26	\$450.04
Palo Alto		\$2,381.70	\$2,306.24	\$2,283.89	\$2,250.20	\$2,214.67
West Coast Gas - Castle		\$414.94	\$401.79	\$397.90	\$392.03	\$385.84
West Coast Gas - Mather		\$379.20	\$367.19	\$363.63	\$358.27	\$352.61

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

**Adopted
APPENDIX H: Table 22**

PACIFIC GAS AND ELECTRIC COMPANY

Self Balancing Credit

	<u>2018</u>		<u>2019</u>	<u>2020</u>	<u>2019 GT&S Rates 2021</u>	<u>2022</u>
Self Balancing Credit	(\$0.0200)		(\$0.0318)	(\$0.0350)	(\$0.0360)	(\$0.0368)

Notes:

- a) Storage balancing costs are bundled in backbone rates. Customers or Balancing agents who elect self balancing on a daily basis can opt out of PG&E's monthly balancing program and receive a self-balancing credit.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 23

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative Average Bundled Bill Impacts for Residential and Small Commercial Customers (5)

Line No.		Rates Effective Jan 1, 2019 (1)	Rates Effective Jan 1, 2019 (net of 2015 GT&S Late Implementation) (2)	Effective October 2019 with Adopted 2019 GT&S (Year 2019 Components) (C)	Rates Effective 2020 with Adopted 2019 GT&S (Year 2020 Components) (D)	Rates Effective 2021 with Adopted 2019 GT&S (Year 2021 Components) (E)	Rates Effective 2022 with Adopted 2019 GT&S (Year 2022 Components) (F)	Informational Rate Impact October 1, 2019 to January 1, 2019 Rate (G)
		A	B	C	D	E	F	G
		RESIDENTIAL CLASS						
1	Non-CARE Residential Illustrative Bundled Rate (\$/th) (3)	\$1.51815	\$1.46831	\$1.53940	\$1.53996	\$1.52481	\$1.53868	\$1.53940
2	State-Mandated Residential Public Purpose Program Surcharge (\$/th)	\$0.09047	\$0.09047	\$0.09047	\$0.09047	\$0.09047	\$0.09047	\$0.09047
3	End-User Total Rate and Surcharge (\$/th)	\$1.60862	\$1.55878	\$1.62987	\$1.63043	\$1.61528	\$1.62915	\$1.62987
4	Average Monthly Use per Residential Customer (therms) (4)	32	32	32	32	32	32	32
5	Present Average Non-CARE Residential Customer Monthly Bill (\$)	\$51.48	\$49.88	\$52.16	\$52.17	\$51.69	\$52.13	\$52.16
6	Change in Average Non-CARE Residential Bill		(\$1.60)	\$2.28	\$0.01	(\$0.48)	\$0.44	\$0.68
7	% Change in Average Annual Non-CARE Residential Bill		-3.1%	4.6%	0.0%	-0.9%	0.9%	1.3%
		Rates Effective Jan 1, 2019 (1)	Rates Effective Jan 1, 2019 (net of 2015 GT&S Late Implementation) (2)	Illustrative Rates Effective October 2019 with Adopted 2019 GT&S (Year 2019 Components) (C)	Illustrative Average Rates Effective 2020 with Adopted 2019 GT&S (Year 2020 Components) (D)	Illustrative Average Rates Effective 2021 with Adopted 2019 GT&S (Year 2021 Components) (E)	Illustrative Average Rates Effective 2022 with Adopted 2019 GT&S (Year 2022 Components) (F)	Informational Rate Impact October 1, 2019 to January 1, 2019 Rate (G)
		A	B	C	D	E	F	G
		SMALL COMMERCIAL CLASS						
8	Non-CARE Small Commercial Illustrative Bundled Rate (\$/th) (3)	\$1.07635	\$1.02652	\$1.08966	\$1.09294	\$1.07903	\$1.09264	\$1.08966
9	State-Mandated Small Commercial Public Purpose Program Surcharge (\$/th)	\$0.04319	\$0.04319	\$0.04319	\$0.04319	\$0.04319	\$0.04319	\$0.04319
10	End-User Total Rate and Surcharge (\$/th)	\$1.11954	\$1.06971	\$1.13285	\$1.13613	\$1.12222	\$1.13583	\$1.13285
11	Average Monthly Use per Small Commercial Customer (therms) (4)	280	280	280	280	280	280	280
12	Present Average Non-CARE Small Commercial Customer Monthly Bill (\$)	\$313.47	\$299.52	\$317.20	\$318.12	\$314.22	\$318.03	\$317.20
13	Change in Average Non-CARE Small Commercial Bill		(\$13.95)	\$17.68	\$0.92	(\$3.90)	\$3.81	\$3.73
14	% Change in Average Annual Non-CARE Small Commercial Bill		-4.5%	5.9%	0.3%	-1.2%	1.2%	1.2%

Notes

- (1) January 1, 2019 rates are based on PG&E's January 1, 2019 rate change filing per Advice Letter 4053-G with adopted 2018 GT&S components.
- (2) 2015 GT&S Late Implementation Amortization charge removed from rates effective August 1, 2019 pursuant to Decision 16-06-056.
- (3) CARE customers receive a 20 % discount on transportation and procurement and are exempt from CARE and CSI Solar Water Heater rate components.
- (4) Average monthly usage based on adopted throughput and customer forecast stipulation. See adopted forecast workpapers for details.
- (5) Bill Impacts beginning 2020 do not include procurement of ISP storage under NGSS.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H: Table 24

PACIFIC GAS AND ELECTRIC COMPANY

BACKBONE LOAD FACTOR

NON-EQUALIZED RATES WITH STIPULATED BAJA-REDWOOD DIFFERENTIALS

	2019	2020	2021	2022	Revision Notes
1 Backbone Demand (MDth/d)					
2 Core	749	741	738	734	
3 Core distribution shrinkage	21	21	21	21	
4 Noncore industrial	567	562	568	576	
5 Noncore natural gas vehicle (NGV4)					(1)
6 Noncore electric generation	504	497	493	496	
7 Wholesale	10	10	10	9	
8 Subtotal, on-system	1,850	1,831	1,829	1,836	(2)
9 G-XF off-system	80	80	80	80	
10 Non G-XF off-system (full-rate-equivalent throughput) (a)	47	35	31	30	(3)
11 Subtotal, off-system	127	115	112	111	
12 TOTAL	1,977	1,946	1,941	1,947	
13 Remove G-XF contracts	(86)	(86)	(86)	(86)	
14 Adjust for Baja on-system discounts (b)	0	0	0	0	
15 Adjust for G-AA, G-SFT, and G-NFT premiums (c)	47	73	86	88	(3)
16 Adjust for reservation charges for un-used firm contracts (d)	42	54	74	73	(3)
17 Adjust for disproportionate usage of backbone paths (e)	(86)	(102)	(113)	(111)	(3)
18 Subtotal, adjustments	(83)	(61)	(38)	(35)	
19 TOTAL, ADJUSTED	1,895	1,885	1,902	1,912	
20 Backbone Capacity (MDth/d at Delivery Point)					
21 Redwood Line 401	1,047	1,047	1,047	1,047	
22 Redwood Line 400	1,066	1,066	1,066	1,066	
23 Baja Line 300	1,023	1,023	1,023	1,023	
24 Silverado "capacity"	57	58	57	57	(4)
25 TOTAL	3,192	3,193	3,192	3,192	
26 Remove G-XF contracts	(86)	(86)	(86)	(86)	
27 Remove SMUD equity capacity, Line 401	(47)	(47)	(47)	(47)	
28 Remove SMUD equity capacity, Line 300	(41)	(41)	(41)	(41)	
29 Subtotal, adjustments	(174)	(174)	(174)	(174)	
30 TOTAL, ADJUSTED	3,019	3,019	3,018	3,018	
31 <u>Memo:</u> Silverado flow forecast	36	36	36	36	
32 Backbone Load Factor	62.77%	62.45%	63.02%	63.36%	

Revision Notes

(Explanations are based on comparisons to Exhibit PGE-2, Chapter 16B, Table 16B-1)

(1) Noncore natural gas vehicle (NGV4) demand is included in Line No. 4, Noncore industrial demand.

(2) The on-system demand forecast is revised consistent with this Decision.

(3) The revisions to Line Nos. 10, 15, 16, and 17 are explained in the next table.

(4) The Silverado "capacities" are calculated by dividing forecasted Silverado throughput (Line No. 31) by the backbone load factor (Line No. 32). Because the backbone load factors are revised, the Silverado capacities are also revised.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
APPENDIX H: Table 25
PACIFIC GAS AND ELECTRIC COMPANY
THROUGHPUT ADJUSTMENTS FOR BACKBONE LOAD FACTOR
NON-EQUALIZED RATES WITH STIPULATED BAJA-REDWOOD DIFFERENTIALS

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>Revision</u> <u>Notes</u>
1 (a) Calculate full rate equivalent non-G-XF off-system throughput					
2 Forecasted revenues (\$ '000/yr)	\$8,350	\$8,350	\$8,350	\$8,350	
3 Noncore Redwood G-AFT rate (\$/Dth)	\$0.490	\$0.661	\$0.729	\$0.752	
4 Full rate equivalent throughput (MDth/d)	47	35	31	30	(1)
5 (b) Adjust for Baja on-system discounts					
6 Quantity (MDth/d)	0	0	0	0	
7 Contract rate (\$/Dth)	\$0.000	\$0.000	\$0.000	\$0.000	
8 Noncore Baja G-AFT rate (\$/Dth)	\$0.590	\$0.796	\$0.899	\$0.932	
9 Full rate equivalent throughput (MDth/d)	0	0	0	0	
10 Throughput adjustment (MDth/d)	0	0	0	0	
11 (c) Adjust for G-AA, G-SFT, and G-NFT premiums					
12 G-AA throughput - Core (MDth/d)	0	0	0	0	
13 G-AA throughput - Noncore (MDth/d)					
14 Total on-system throughput	1,850	1,831	1,829	1,836	
15 G-XF on-system throughput	5	5	5	5	
16 Firm throughput excl G-XF	1,802	1,749	1,732	1,732	
17 G-AA throughput - Core	0	0	0	0	
18 G-AA throughput - Noncore (determined residually)	43	77	91	98	(2)
19 G-SFT throughput - Core					
20 Core G-SFT MDQ (annualized MDth/d)	65	123	180	180	(3)
21 Core G-SFT average utilization level	92.9%	92.9%	92.9%	92.9%	
22 Core G-SFT throughput (MDth/d)	61	114	168	168	
23 G-SFT and G-NFT throughput - Noncore					
24 Noncore G-SFT and G-NFT MDQ (annualized MDth/d)	135	175	175	175	(4)
25 Noncore G-SFT and G-NFT average utilization level	96.9%	99.5%	99.2%	99.8%	(4)
26 Noncore G-SFT and G-NFT throughput (MDth/d)	130	174	174	175	
27 TOTAL (MDth/d)	234	366	432	441	
28 Rate premium	20%	20%	20%	20%	
29 Premium adjustment (MDth/d)	47	73	86	88	
30 (d) Adjust for reservation charges for unused firm contracts					
31 Total firm contract MDQ excl G-XF (MDth/d)	1,860	1,822	1,833	1,833	(5)
32 Average firm contract utilization level excl G-XF	96.9%	96.0%	94.5%	94.5%	(5)
33 Unused firm MDQ (MDth/d)	58	73	101	101	
34 Average reservation portion of MFV rate	73.3%	73.8%	73.2%	72.6%	(6)
35 Unused firm contract adjustment (MDth/d)	42	54	74	73	

(TABLE CONTINUED ON NEXT PAGE)

2019 Gas Transmission and Storage Rate Case (2019 GT&S)
Adopted
APPENDIX H: Table 25
PACIFIC GAS AND ELECTRIC COMPANY
THROUGHPUT ADJUSTMENTS FOR BACKBONE LOAD FACTOR
NON-EQUALIZED RATES WITH STIPULATED BAJA-REDWOOD DIFFERENTIALS

	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>Revision</u> <u>Notes</u>
36 (e) Adjust for disproportionate usage of backbone paths					
37 Core Redwood capacity (MDth/d)	612	671	717	717	
38 Throughput at load factor (MDth/d)	384	419	452	454	
39 Expected Core Redwood utilization level (incl brokering)	98.2%	97.7%	97.4%	97.4%	
40 Expected Core Redwood throughput (MDth/d)	601	655	699	699	
41 Throughput shift to Core Redwood capacity (MDth/d)	217	236	247	244	
42 Core Redwood rate as percent of system average rate	88.5%	88.0%	88.8%	89.5%	
43 Percent difference relative to system average rate	-11.5%	-12.0%	-11.2%	-10.5%	
44 Throughput adjustment (MDth/d)	(25)	(28)	(28)	(26)	(7)
45 Core Baja capacity (MDth/d)	247	110	75	75	
46 Throughput at load factor (MDth/d)	155	69	47	48	
47 Expected Core Baja utilization level (incl brokering)	96.3%	94.8%	92.9%	92.9%	
48 Expected Core Baja throughput (MDth/d)	238	104	70	70	
49 Throughput shift to Core Baja capacity (MDth/d)	83	36	22	22	
50 Core Baja rate as percent of system average rate	108.0%	107.5%	110.7%	111.9%	
51 Percent difference relative to system average rate	8.0%	7.5%	10.7%	11.9%	
52 Throughput adjustment (MDth/d)	7	3	2	3	(7)
53 Noncore Baja capacity (MDth/d; excl SMUD equity)	734	872	907	907	
54 Throughput at load factor (MDth/d)	461	545	572	575	
55 Expected Noncore Baja throughput (MDth/d)	47	84	89	95	
56 Throughput shift to Noncore Baja capacity (MDth/d)	(414)	(461)	(482)	(479)	
57 Noncore Baja rate as percent of system average rate	115.1%	115.0%	116.1%	116.1%	
58 Percent difference relative to system average rate	15.1%	15.0%	16.1%	16.1%	
59 Throughput adjustment (MDth/d)	(63)	(69)	(78)	(77)	(7)
60 Noncore Redwood capacity (MDth/d; excl G-XF and SMUD equity)	1,367	1,308	1,262	1,262	
61 Throughput at load factor (MDth/d)	858	817	795	800	
62 Expected Noncore Redwood throughput (MDth/d, excl G-XF and SMUD equity)	970	981	961	962	
63 Throughput shift to Noncore Redwood capacity (MDth/d)	111	164	166	162	
64 Noncore Redwood rate as percent of system average rate	95.6%	95.5%	94.2%	93.7%	
65 Percent difference relative to system average rate	-4.4%	-4.5%	-5.8%	-6.3%	
66 Throughput adjustment (MDth/d)	(5)	(7)	(10)	(10)	(7)
67 Total throughput adjustment (MDth/d)	(86)	(102)	(113)	(111)	(7)
68 Backbone Rate Inputs (AFT, \$/Dth)					
69 System average rate (excl Silverado and G-XF)	\$0.513	\$0.692	\$0.775	\$0.802	(8)
70 Core Redwood rate	\$0.454	\$0.609	\$0.688	\$0.718	(8)
71 Core Baja rate	\$0.554	\$0.744	\$0.858	\$0.898	(8)
72 Noncore Redwood rate	\$0.490	\$0.661	\$0.729	\$0.752	(8)
73 Noncore Baja rate	\$0.590	\$0.796	\$0.899	\$0.932	(8)

Revision Notes

(Explanations are based on comparisons to Exhibit PGE-2, Chapter 16B, Table 16B-2)

- (1) The full rate equivalent non-G-XF off-system throughputs are revised because the noncore Redwood rates (Line Nos. 3 and 72) are revised.
- (2) The noncore G-AA throughputs are revised because of changes to the demand forecast (see Note 2 of the previous table) and changes to the forecast of firm contracts (see Notes 3, 4, and 5 of this table).
- (3) The core G-SFT contracts and throughputs are revised due to delayed implementation of the Natural Gas Storage Strategy.
- (4) The noncore G-SFT/G-NFT contracts and utilization levels of those contracts are revised due to changes to the demand forecast (see Note 2 of the previous table) and delayed implementation of the Natural Gas Storage Strategy.
- (5) The total firm contracts and utilization levels of those contracts are revised due to changes to the demand forecast (see Note 2 of the previous table) and delayed implementation of the Natural Gas Storage Strategy.
- (6) The average reservation portion of the MFV rate is revised consistent with the revised revenue requirement in this Decision.
- (7) The adjustments for disproportionate usage of backbone paths are revised for several reasons, chiefly changes to the backbone load factors and the backbone rates themselves. (The backbone load factors and the backbone rates are interdependent and must be calculated in an iterative manner.) The adjustments for disproportionate usage of backbone paths are also affected by revisions to the demand forecast (see Note 2 of the previous table).
- (8) The backbone rates are revised consistent with the revised revenue requirement in this Decision and the revised backbone load factors.

2019 Gas Transmission and Storage Rate Case (2019 GT&S)

Adopted

APPENDIX H:

PACIFIC GAS AND ELECTRIC COMPANY

Illustrative End-User Rates Including Late Implementation Amortized Over 15 Months

Implementation Month: October

Amortization Period: 15 Months

Attachment 7
Natural Gas GHG Tables

Illustrative Natural Gas GHG Rate Impacts

D.15-10-032, *Decision Adopting Procedures Necessary For Natural Gas Corporations To Comply With The California Cap On Greenhouse Gas Emissions And Market-Based*

Table A: Forecast Revenue Requirement

Line	Description	2019		2020	
		Forecast	Recorded/ Forecast	Forecast	Recorded
1	Gross Throughput (MMcf) (See Note 3)	669,680	707,015	650,940	
2	Throughput to Covered Entities (MMcf)	(364,638)	(382,841)	(304,755)	
3	Net Throughput to End Users (MMcf) (Line 1 + Line 2)	305,042	324,174	346,185	
4	Lost and Unaccounted for Gas (MMcf)	10,316	10,785	10,083	
5	Total Supplied Gas (MMcf) (Line 3 + Line 4)	315,358	334,959	356,268	
6	Emissions Conversion Factor (MTCO ₂ e/MMcf)	54.64		54.64	
6a	LUAF MTCO ₂ e, (Line 4 * Line 6)	563,711		550,979	
7	Compliance for End Users excluding LUAF (MTCO ₂ e) (Line 3 * Line 6)	16,668,827		18,917,061	
8	Compliance Obligation for Company Facilities (MTCO ₂ e)	259,032		239,107	
9	Gross Compliance Obligation (MTCO₂e) (Line 6a + Line 7 + Line 8)	17,491,571		19,707,147	
10	Directly Allocated Allowances	(17,398,006)		(17,037,633)	
11	Percentage Consigned to Auction	45%		50%	
12	Consigned Allowances (Line 10 * Line 11) (see Note 1)	7,829,103		8,518,816	
13	Net Compliance Obligation (MTCO₂e) (Line 9 + Line 10 + Line 12)	7,922,667		11,188,330	
14	Proxy GHG Allowance Price	\$ 16.33		\$ 17.78	
15	Compliance Instrument Cost* (see Note 2)	\$ 129,377,157	\$ 119,007,075	\$ 198,937,453	
16	Interest*/Financing Costs		\$ 638,706		
17	Revenue Fees & Uncollectibles	\$ 1,729,773	\$ 1,596,004	\$ 2,659,794	
18	Revenue Requirement (Line 15 + Line 16 + Line 17)	\$ 131,106,930	\$ 120,603,079	\$ 201,597,246	
19	Previous Years Cost Balancing Subaccount Balance	\$ 57,784,748		\$ (12,917,966)	
20	Revenue Requirement to be Included in Rates (Line 18 + Line 19)	\$ 188,891,678		\$ 188,679,281	
21	Covered Entity Rate Impact (\$/therm)	\$ 0.00268		\$ 0.00170	
22	Non-Covered Entity Rate Impact (\$/therm)	\$ 0.05049		\$ 0.05121	

*Recorded costs through September 2019

CONFIDENTIAL INFORMATION

NOTES

- Year 2019 Recorded: Represents the allowances consigned in 2019 through 9/30/19 and forecast based on the the allowances to be consigned (based on total 2019 consigned allowances divided by 4)
- Line 15 of the Recorded column for 2019 Recorded includes 9 months actual and 3 month forecasted data. Costs covered Natural Gas end-users and compressor stations.
- Lines 1-9 of the 2019 Recorded/Forecast column includes January-June actuals and July-December forecasted data.

Table C: GHG Allowance Proceeds

Line	Description	2019		2020	
		Forecast	Recorded/ Forecast	Forecast	Recorded
1	Proxy GHG Allowance Price (\$/MT)	\$ 16.33		\$ 17.78	
2	Directly Allocated Allowances	17,398,006		17,037,633	
3	Percentage Consigned to Auction	45%		50%	
4	Consigned Allowances	7,829,103	-	8,518,816	
5	Allowance Proceeds (See Note 1)	\$ (127,849,247)	\$ (132,233,543)	\$ (151,471,364)	
6	Previous Year's Revenue Balancing Subaccount Balance	\$ 142,668		\$ (6,710,687)	
7	Interest*		\$ 554,567		
8	Subtotal Allowance Proceeds (\$) (Line 5 + Line 6 + Line 7)	\$ (127,706,579)	\$ (131,678,976)	\$ (158,182,050)	\$ -
9	Outreach and Admin Expenses (\$)* (from Table D)	\$ 575,270	\$ 290,042	\$ 536,977	
9a	Revenue Fees & Uncollectibles	\$ (1,699,746)	\$ (1,756,670)	\$ (2,107,715)	
10	Net GHG Proceeds Available for Customer Returns (\$) (Line 8 + Line 9)	\$ (128,831,055)	\$ (133,145,604)	\$ (159,752,788)	
11	2015-2017 Net of Costs and Proceeds included in October 2018 Customer Credit				
12	Number of Residential Households	5,061,931		5,061,933	
13	Per Household California Climate Credit (\$) (Line 10 / Line 11)	\$ (25.45)		\$ (31.56)	

NOTES

- Year 2019 Recorded: Represents the allowances proceeds in 2019 through 9/30/19 and forecast proceeds based on remaining expected consigned allowances multiplied by the proxy price of vintage 2019 California Carbon Allowance Future.

Table D: GHG Outreach and Administrative Expenses

Line	Description	2019		2020	
		Forecast	Recorded*/Forecast	Forecast	Recorded
1	Outreach Expenses				
2	Detail of Outreach Activity (\$) (See Note 1)	\$ 73,000	\$ 43,786	\$ 67,554	
3	Subtotal Outreach (\$)	\$ 73,000	\$ 43,786	\$ 67,554	\$ -
4	Administrative Expenses				
5	General Program Management (See Note 2)	\$ 320,000	\$ 130,312	\$ 343,293	
6	IT/Billing System Enhancements (See Note 2a)	\$ 52,270	\$ 7,143	\$ 22,000	
7	Customer Inquiry Support Cost (See Note 2b)**	\$ 130,000	\$ 85,412	\$ 104,130	
8	Subtotal Administrative (\$)	\$ 502,270	\$ 222,867	\$ 469,423	\$ -
9	Subtotal Outreach and Administrative (\$)	\$ 575,270	\$ 266,653	\$ 536,977	\$ -
10	Interest (\$)		\$ 23,389		\$ -
11	Total (\$)	\$ 575,270	\$ 290,042	\$ 536,977	\$ -

* 2019 Recorded/Forecast expenses include actual expenses for January through September, plus forecast for October through December.

NOTES:

1 Detail of Outreach Activity

Line 2: Costs associated with Outreach Activities in 2019 include: Development and deployment of bill inserts, emails and master meter letters. Maintenance and update of webpages. Labor for creative development as well as planning and management of outreach activities including coordination with the Energy Division.

2 Administrative Activities

Line 5: Costs associated with Program Management activities in 2019 include: Program management and coordination with various groups (IT, accounting, rates, regulatory, marketing) to ensure Natural Gas residential customers receive appropriate regulatory-approved Climate Credits and non-residential customers receive the appropriate covered entity cost exemptions. Assist with regulatory filings, advice letters and data requests, and ensuring compliance with all applicable regulatory requirements.

2a Line 6: Costs associated with IT/Billing System Enhancements activities in 2019 include: Maintenance of custom billing programs developed to administer the residential Climate Credits and covered entity cost exemptions, and development and deployment of necessary updates to PG&E's customer billing system.

2b Line 7: Costs associated with Customer Inquiry Support Cost activities in 2019 include: Customer support for calls received related to Natural Gas Climate Credit, as well as dedicated Customer Service Representatives to support non-

Table E: Compliance Obligation Over Time

	2016	2017	2018	2019	2020
Natural Gas Fuel Supplier Compliance Obligation (MTCO ₂ e)	17,251,614	17,987,142	NA	NA	NA
Company Facility Compliance Obligation (MTCO ₂ e)	253,236	221,111	NA	NA	NA

Attachment 8
Confidentiality Declaration

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

**PACIFIC GAS AND ELECTRIC COMPANY
ORDER INSTITUTING RULEMAKING TO ADDRESS NATURAL GAS
DISTRIBUTION UTILITY COST AND REVENUE ISSUES ASSOCIATED WITH
GREENHOUSE GAS EMISSIONS (R.14-03-003)**

**DECLARATION OF ROBERT GOMEZ
SEEKING CONFIDENTIAL TREATMENT
FOR CERTAIN DATA AND INFORMATION
CONTAINED IN ADVICE 4173-G**

I, Robert Gomez, declare:

1. I am a Manager in the Portfolio Management group within Energy Policy and Procurement at Pacific Gas and Electric Company (PG&E) and am responsible for leading commercial greenhouse gas policy and strategy. In carrying out these responsibilities, I have acquired knowledge of the California Air Resources Board's Cap-and-Trade Regulation and other programmatic measures to establish a market-based price for GHG emissions in order to manage PG&E's compliance with Cap-and-Trade, which became effective on January 1, 2012. This declaration is based on my personal knowledge of PG&E's practices and my understanding of the Commission's decisions protecting the confidentiality of market-sensitive procurement information.

2. Based on my knowledge and experience, and in accordance with the Decisions 06-06-066, 08-04-023, D.14-10-033 and relevant Commission rules, I make this declaration seeking confidential treatment for certain procurement data and information contained in Advice 4173-G.

3. Attached to this declaration is a matrix identifying the data and information for which PG&E is seeking confidential treatment. The matrix specifies that the material PG&E is seeking to protect constitutes confidential market sensitive procurement data and information covered by Public Utilities Code Section 454.5(g), D.14-10-033, and D.15-10-032. The matrix

also specifies why confidential protection is justified. Further, the data and information: (1) is not already public; and (2) cannot be aggregated, redacted, summarized or otherwise protected in a way that allows partial disclosure. By this reference, I am incorporating into this declaration all of the explanatory text that is pertinent to my testimony in the attached matrix.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct. Executed on October 30, 2019 at San Francisco, California.



Robert Gomez

PACIFIC GAS AND ELECTRIC COMPANY (U 39 E)

**ORDER INSTITUTING RULEMAKING TO ADDRESS NATURAL GAS DISTRIBUTION UTILITY COST AND REVENUE ISSUES
ASSOCIATED WITH GREENHOUSE GAS EMISSIONS (R.14-03-003)
PG&E ADVICE 4173-G**

IDENTIFICATION OF CONFIDENTIAL INFORMATION

Redaction Reference	Category from D.06-06-066, Appendix 1, or Separate Confidentiality Statute or Order That Data Corresponds To	Justification for Confidential Treatment	Length of Time Data To Be Kept Confidential
Document:			
Atch 7 – Table A, lines 6-14 and 19-20 - recorded data Atch 7 – Table B, all data Atch 7 – Table C, lines 1-4, and 12-13 - recorded data Atch 7 – GHG Procurement Limits	<i>Market Sensitive Information</i>	Information concerning GHG compliance instrument procurement strategy and/or activities. The release of this commercially sensitive information could cause harm to PG&E's customers and put PG&E at an unfair business advantage by the disclosure of PG&E's GHG compliance instrument inventories or quantities that can be used to derive GHG compliance instrument holdings. This information could be used by other market participants to gain a commercial advantage.	Indefinite

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T	Downey & Brand	Pioneer Community Energy
Albion Power Company	East Bay Community Energy	Praxair
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	
	Energy Management Service	Redwood Coast Energy Authority
Alta Power Group, LLC	Engineers and Scientists of California	Regulatory & Cogeneration Service, Inc.
Anderson & Poole	Evaluation + Strategy for Social	SCD Energy Solutions
	Innovation	
Atlas ReFuel	GenOn Energy, Inc.	SCE
BART	Goodin, MacBride, Squeri, Schlotz &	SDG&E and SoCalGas
	Ritchie	
Barkovich & Yap, Inc.	Green Charge Networks	SPURR
P.C. CalCom Solar	Green Power Institute	San Francisco Water Power and Sewer
California Cotton Ginners & Growers Assn	Hanna & Morton	Seattle City Light
California Energy Commission	ICF	Sempra Utilities
California Public Utilities Commission	International Power Technology	Southern California Edison Company
California State Association of Counties	Intestate Gas Services, Inc.	Southern California Gas Company
Calpine	Kelly Group	Spark Energy
	Ken Bohn Consulting	Sun Light & Power
Cameron-Daniel, P.C.	Keyes & Fox LLP	Sunshine Design
Casner, Steve	Leviton Manufacturing Co., Inc. Linde	Tecogen, Inc.
Cenergy Power	Los Angeles County Integrated Waste	TerraVerde Renewable Partners
Center for Biological Diversity	Management Task Force	Tiger Natural Gas, Inc.
	Los Angeles Dept of Water & Power	
Chevron Pipeline and Power	MRW & Associates	TransCanada
City of Palo Alto	Manatt Phelps Phillips	Troutman Sanders LLP
	Marin Energy Authority	Utility Cost Management
City of San Jose	McKenzie & Associates	Utility Power Solutions
Clean Power Research		Utility Specialists
Coast Economic Consulting	Modesto Irrigation District	
Commercial Energy	Morgan Stanley	Verizon
County of Tehama - Department of Public	NLine Energy, Inc.	Water and Energy Consulting Wellhead
Works	NRG Solar	Electric Company
Crossborder Energy		Western Manufactured Housing
Crown Road Energy, LLC	Office of Ratepayer Advocates	Communities Association (WMA)
Davis Wright Tremaine LLP	OnGrid Solar	Yep Energy
Day Carter Murphy	Pacific Gas and Electric Company	
	Peninsula Clean Energy	
Dept of General Services		
Don Pickett & Associates, Inc.		
Douglass & Liddell		