



Erik Jacobson
Director
Regulatory Relations

Pacific Gas and Electric Company
77 Beale St., Mail Code B13U
P.O. Box 770000
San Francisco, CA 94177

Fax : 415-973-3582

December 20, 2019

Advice 5723-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Notice of Federal Energy Regulatory Commission Rate Filing for Annual Updates to the Transmission Access Charge Balancing Account Adjustment

Purpose

Pacific Gas and Electric Company ("PG&E") submits this advice letter to provide the California Public Utilities Commission ("Commission" or "CPUC") with notice of PG&E's recent filing with the Federal Energy Regulatory Commission ("FERC") requesting a transmission rate change for its retail electric customers, in compliance with Resolution E-3930 (Resolution). PG&E's FERC filing requests approval of the annual update to the Transmission Access Charge Balancing Account Adjustment ("TACBAA") with a requested effective date of March 1, 2020.

Background

On December 6, 2019, PG&E filed its TACBAA annual update with FERC in Docket No. ER20-541-000.

TACBAA

The TACBAA is a ratemaking mechanism designed to ensure that the difference in the amount of costs billed to PG&E as a load-serving entity and the revenues paid to PG&E as a Participating Transmission Owner ("PTO") under the California Independent System Operator Corporation ("CAISO") Tariff is recovered from, or returned to, PG&E's End-Use customers.

Section 5.7 of PG&E's Transmission Owner ("TO") Tariff describes the items to be included in the Transmission Access Charge Balancing Account ("TACBA") and sets forth the procedure for revising the TACBAA rate on an annual basis. As described in PG&E's TO Tariff, the effective date for the updated TACBAA rate is March 1 of each year. The 2020 TACBAA rate consists of three components: (1) the projected balance

of the TACBA as of February 28, 2020, including interest; (2) the forecasted TACBA costs and customer usage volumes for the next rate period; and (3) an amount for Revenue Fees and Uncollectible Accounts (“RF&U”).

The total revenue requirement (“RRQ”) used in the development of the 2020 TACBAA rate is \$363,465,246, which is the sum of the projected balance of the TACBA, which is a charge of \$92,652,598, the forecasted TACBA costs and customer usage volumes for the next rate period, which is a charge of \$266,519,137, and the RF&U adjustment, which is a charge of \$4,320,511. The corresponding TACBAA rate is \$0.00464/kWh. This represents a decrease from the March 1, 2019 TACBAA RRQ of \$494,816,633 and the corresponding rate of \$0.00618/kWh.

Compliance with Resolution E-3930

PG&E submits this advice letter pursuant to Process Element 3 of Resolution E-3930. Consistent with past practice, by service to the Commission’s Legal Division, PG&E also provided the Commission with a complete copy of the 2020 TACBAA annual update filing on the same date that it was filed with FERC.

In this advice letter, PG&E requests authority to revise each corresponding transmission rate component of its Commission-jurisdictional tariffs on the date FERC ultimately authorizes these changes to become effective, or as soon thereafter as possible, subject to refund, and to make corresponding adjustments to its total applicable Commission jurisdictional rates. Adjustments to total residential rates will be made pursuant to CPUC Decisions D.15-07-001 on residential rate reform and D18-08-013 on transition to time-of-use rates.

As anticipated under Process Element 4 of Resolution E-3930, PG&E will supplement this advice letter, or indicate in a separate advice letter that coincides with other retail rate changes, when the requested TACBAA rate change is accepted, modified, rejected, or otherwise acted upon by FERC.

This FERC rate change will generally affect the rates of all bundled, Direct Access, and Community Choice Aggregation customers. Typically, the TACBAA rate change will be consolidated into other rate changes scheduled to be filed in late February for an effective date of March 1, 2020. At that time, PG&E will also provide complete updated tariff sheets.

Protests

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile, or E-mail, no later than January 9, 2020, which is 20 days after the date of this submittal. Protests must be submitted to:

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
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.co

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 advice submittal become effective as soon as practicable after FERC authorizes the TACBAA annual update changes to become effective, which PG&E expects to be on or after March 1, 2020. PG&E proposes to consolidate the electric rate changes resulting from the 2020 TACBAA Filing, to the extent practicable, with the first planned rate change after FERC authorizes PG&E's requests.

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 the parties shown on the attached list. 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



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 E)

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) #: 5723-E

Tier Designation: 2

Subject of AL: Notice of Federal Energy Regulatory Commission Rate Filing for Annual Updates to the Transmission Access Charge Balancing Account Adjustment

Keywords (choose from CPUC listing): Compliance, Balancing Account

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: E-3930

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:

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:

Resolution required? Yes No

Requested effective date:

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: N/A

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:

Attachment 1

**TRANSMISSION ACCESS CHARGE BALANCING
ACCOUNT FILING**



**Pacific Gas and
Electric Company™**

Mark D. Patrizio

Mailing Address
P.O. Box 7442
San Francisco, CA 94120

Street/Courier Address
Law Department
77 Beale Street
San Francisco, CA 94105

(415) 973-6344
Fax: (415) 973-5520
Internet: MDP5@pge.com

December 6, 2019

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington DC 20426

**Re: Pacific Gas and Electric Company Transmission Owner Tariff
Transmission Access Charge Balancing Account Filing
Type of Filing Code: 10**

Dear Ms. Bose:

Pursuant to Section 35.13 of the Rules and Regulations of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. §35.13, Pacific Gas and Electric Company ("PG&E") submits this compliance filing to make updates to one rate and revenue requirement under PG&E's Transmission Owner ("TO") Tariff, FERC Electric Tariff Volume No. 5. Specifically, this filing updates the Transmission Access Charge Balancing Account Adjustment ("TACBAA") rate. The requested effective date for the adjustment is March 1, 2020.

TACBAA RATE

The TACBAA is a ratemaking mechanism designed to ensure that the difference in the amount of costs billed to PG&E as a load-serving entity and the revenues paid to PG&E as a Participating Transmission Owner under the California Independent System Operator Corporation ("CAISO") Tariff is recovered from, or returned to, PG&E's End-Use customers. Section 5.7 of PG&E's TO Tariff describes the items to be included in the Transmission Access Charge Balancing Account ("TACBA") and sets forth the procedure for revising the TACBAA rate on an annual basis.

The 2020 TACBAA rate consists of three components: (1) the projected balance of the TACBA as of February 28, 2020, including interest; (2) the forecasted TACBA costs and customer usage volumes for the next rate period; and (3) the Revenue Fees and Uncollectible Accounts ("RF&U").

The total revenue requirement ("RRQ") used in the development of the 2020 TACBAA rate is \$363,465,246, which is the sum of: the projected balance of the TACBA as of February 28, 2020, which is a charge of \$92,652,598; the forecasted TACBA costs and customer usage volumes for the next rate period, which is a charge of \$266,519,137; and the RF&U adjustment, which is a charge of \$4,320,511. The corresponding TACBAA rate is \$0.00464/kWh. This

represents a decrease from the March 1, 2019 TACBAA RRQ of \$494,816,633 and the corresponding rate of \$0.00618/kWh.

The accompanying testimony of David Tam, Exhibit PGE-001, provides an overview of how the TACBAA rate components were derived.

REQUESTED EFFECTIVE DATE

PG&E requests an effective date of March 1, 2020, for the updated TACBAA rate.

REQUEST FOR WAIVERS

PG&E respectfully requests that the Commission grant any waivers of the Commission's rules and regulations necessary for acceptance of this filing under the Federal Power Act.

PG&E REQUESTS AN ORDER ACCEPTING THIS FILING AND PG&E'S PROPOSED RATE REVISION ON OR BEFORE FEBRUARY 4, 2020

PG&E's internal testing procedures for implementing rate changes in its retail billing system take approximately three weeks. As a result, PG&E requests that the Commission issue an Order on the proposed rate revisions on or before February 4, 2020, in order to allow PG&E the time it needs to test the rates to be effective and implemented on March 1, 2020. Accordingly, PG&E is making this filing on December 6, 2019, which allows for the full 60-day notice period required by Section 35.3 of the Commission's regulations, 18 C.F.R. § 35.3, and allows for an order to be issued by February 4, 2020, as requested.

NO EXPENSES ALLEGED ILLEGAL

No expenses or costs associated with this filing have been alleged or judged, in any judicial or administrative proceeding, to be illegal, duplicative, or unnecessary costs that are demonstrably the product of discriminatory employment practices.

SERVICE

Copies of this filing have been served upon the California Public Utilities Commission and the CAISO. In addition, copies of this filing are available for public inspection in a convenient form and place during normal business hours at PG&E's General Office, located at 77 Beale Street in San Francisco, California.

ENCLOSURES

Enclosed for filing are the following documents:

1. Certificate of Service;
2. eTariff Electronic Filing Package containing all required Tariff Record Content Data, metadata and the following Filing Attachments in PDF for posting on eLibrary:

<u>Attachment/Exhibit</u>	<u>Description</u>
Attachment 1	Prepared Direct Testimony and Exhibits
Exhibit PGE-001	Prepared Direct Testimony of David Tam: Annual Updates of the Transmission Access Charge Balancing Account Adjustment
Exhibit PGE-002	2020 Transmission Access Charge Balancing Account Adjustment
Exhibit PGE-003	Supporting Data and Workpapers
Attachment 2	Revisions to the TO Tariff Clean and Redlined versions
Attachment 3	Revenue Comparison, Statements BG and BH.

CORRESPONDENCE

PG&E requests that all correspondence, pleadings, and other communications concerning this filing be served upon the following:

Mark D. Patrizio¹
Law Department
Pacific Gas and Electric Company
77 Beale Street, Mail Code B30A
San Francisco, California 94105
Mark.Patrizio@pge.com

PG&E also requests that an additional copy of any correspondence and orders be sent to:

Joanne M. Myers, Sr. Manager
FERC Electric Proceedings
Pacific Gas and Electric Company
77 Beale Street, Room 2393, B23A
San Francisco, California 94105
Joanne.Myers@pge.com

¹ Person designated to receive service under Rule 2010.

and

Pacific Gas and Electric Company
Regulatory File Room, B30A
77 Beale Street, Room 3120
San Francisco, California 94105
LawFERCCases@pge.com

CONCLUSION

For the foregoing reasons, PG&E requests that the Commission accept this filing, issue its order accepting this filing by February 4, 2020, and grant a March 1, 2020 effective date for the proposed TACBAA rate adjustment.

Respectfully submitted,

/s/ Mark D. Patrizio

Mark D. Patrizio

Attorney for
PACIFIC GAS AND ELECTRIC COMPANY
P.O. Box 7442
San Francisco, California 94120-7442
Telephone: (415) 973-6344

Attachments and Enclosures

CERTIFICATE OF SERVICE

I certify that I have on this day caused the foregoing document to be served upon the following pursuant to Rule 2010 of the Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.2010:

Christine J. Hammond
Assistant General Counsel
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102
Christine.hammond@cpuc.ca.gov

Anthony Ivancovich
Assistant General Counsel
California Independent System Operator Corp.
250 Outcropping Way
Folsom, CA 95630
aivancovich@caiso.com

Dated at San Francisco, California, this 6th day of December, 2019.

/s/ Joanne M. Myers
Joanne M. Myers
JMMF@pge.com
Pacific Gas and Electric Company
77 Beale Street, B23A, Room 2393
San Francisco, CA 94105
(415) 973-3397



**Pacific Gas and
Electric Company™**

Mark D. Patrizio

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Pacific Gas and Electric Company
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Respectfully submitted,

/s/ Mark D. Patrizio

Mark D. Patrizio

Attorney for
PACIFIC GAS AND ELECTRIC COMPANY
P.O. Box 7442
San Francisco, California 94120-7442
Telephone: (415) 973-6344

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Assistant General Counsel
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102
Christine.hammond@cpuc.ca.gov

Anthony Ivancovich
Assistant General Counsel
California Independent System Operator Corp.
250 Outcropping Way
Folsom, CA 95630
aivancovich@caiso.com

Dated at San Francisco, California, this 6th day of December, 2019.

/s/ Joanne M. Myers
Joanne M. Myers
JMMF@pge.com
Pacific Gas and Electric Company
77 Beale Street, B23A, Room 2393
San Francisco, CA 94105
(415) 973-3397

Attachment 1

Prepared Direct Testimony And Exhibits

**PACIFIC GAS AND ELECTRIC COMPANY
EXHIBIT PGE-001
PREPARED DIRECT TESTIMONY OF DAVID TAM
ANNUAL UPDATE OF THE
TRANSMISSION ACCESS CHARGE BALANCING
ACCOUNT ADJUSTMENT RATE**

PACIFIC GAS AND ELECTRIC COMPANY
EXHIBIT PGE-001
PREPARED DIRECT TESTIMONY OF DAVID TAM
ANNUAL UPDATE OF THE
TRANSMISSION ACCESS CHARGE BALANCING ACCOUNT
ADJUSTMENT RATE AND THE RELIABILITY SERVICES BALANCING
ACCOUNT CHARGE

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1 **PACIFIC GAS AND ELECTRIC COMPANY**
2 **EXHIBIT PGE-001**
3 **PREPARED DIRECT TESTIMONY OF DAVID TAM**
4 **ANNUAL UPDATE OF THE**
5 **TRANSMISSION ACCESS CHARGE BALANCING ACCOUNT**
6 **ADJUSTMENT RATE**

7 **A. Introduction**

8 Q 1 Please state your name, title and business address for the record.

9 A 1 My name is David Tam. I am employed by Pacific Gas and Electric
10 Company (PG&E) as an expert regulatory analyst in the FERC
11 Electric Proceedings Department. My business address is
12 77 Beale Street, San Francisco, California.

13 Q 2 Briefly describe your responsibilities at PG&E.

14 A 2 I am a case manager involved in the preparation of Federal Energy
15 Regulatory Commission (FERC or Commission) filing packages for
16 various FERC proceedings. I also review and prepare revenue, cost,
17 and load-related data analyses and provide other analytical and
18 regulatory support, as necessary, for certain regulatory proceedings.
19 I have submitted testimony in FERC Docket Nos. ER14-2529 000,
20 ER15-2294 000, ER16-42-000, ER16-487-000, ER16-2168-000,
21 ER16-2320-000, ER17-39-000, ER17-516-000, ER17-910-002,
22 ER17-2154-000, ER18-54-000, ER18-408-000, ER19-13-000, ER19-
23 520-000, ER19-1816-000, and ER20-100-000.

24 Q 3 Please summarize your educational and professional background.

25 A 3 I received a Bachelor of Arts degree in economics from the University
26 of California, Davis. Since joining PG&E in 2007, I have held
27 positions of varying levels of responsibility including program
28 engineer and business analyst. I have been in my current position as
29 a expert regulatory analyst since 2013.

30 Q 4 What is the purpose of your testimony in this proceeding?

31 A 4 In this filing, PG&E is submitting its annual update to the
32 Transmission Access Charge Balancing Account (TACBA) and the
33 associated TACBA Adjustment (TACBAA) rate. My testimony will

1 explain why PG&E is filing these updates at this time and will present
2 the TACBAA and the calculation of the new rate.

3 **B. TACBAA and Resulting Rate for Retail End-Use Customers**

4 Q 5 Please explain the TACBAA.

5 A 5 The TACBAA is a balancing account adjustment designed to
6 flow-through the net cost difference arising from the California
7 Independent System Operator Corporation (CAISO) Transmission
8 Access Charge (TAC) rate that is billed to PG&E's End-Use
9 Customers. Specifically, the TACBA tracks the difference between
10 the High Voltage Access Charge (HVAC) from the CAISO, the utility
11 specific High Voltage (HV) TAC revenues received by PG&E from the
12 CAISO, and the revenues received by PG&E from End-Use
13 Customers through the assessment of the TACBAA rate. The
14 TACBAA is a component of End-Use Customer rates under PG&E's
15 TO Tariff and is revised annually. A balancing account mechanism is
16 used because the components of the TACBAA are difficult to
17 forecast. This forecasting difficulty is attributable, in part, to the
18 imprecision of predicting gross loads across the CAISO-controlled
19 grid, the timing of when new Participating Transmission Owners
20 (PTOs) will join the CAISO, the level of other PTOs' Transmission
21 Revenue Requirements (TRR), and when those other PTOs might file
22 changes to their TRRs.

23 Q 6 Which CAISO charge codes does PG&E include in the TACBAA?

24 A 6 PG&E includes only charges and credits for CAISO charge codes
25 that, by CAISO definition, are associated with the TAC. The CAISO
26 revises its charge codes from time to time and documents the
27 changes in its Settlement and Billing Business Practice Manuals

- 1 (BPM) which are available on the CAISO's web site.¹ At the time of
2 this filing, the TAC-related charge codes are:
- 3 • CC 372 – High Voltage Access Charge Allocation.² This is a
4 charge from the CAISO to PG&E for PG&E load's use of the HV
5 transmission system. It is billed to PG&E at the system-wide
6 TAC rate.
 - 7 • CC 374 – High Voltage Access Revenue Payment.³ This is a
8 credit from the CAISO to PG&E for PG&E load's use of the HV
9 transmission system. It is credited to PG&E at the PG&E-specific
10 utility rate.
 - 11 • CC HO27 – Historic consolidated charge code for market reruns
12 related specifically to CC 372 and CC 374.⁴ Re-runs are
13 recalculations by the CAISO of previously settled Billing Periods
14 where data such as prices, meter quantities, etc. have been
15 updated. These charge codes may result in a charge or a credit.

1 All Settlement and Billing BPMs are available on the CAISO website at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section.

2 A detailed description of CC 372 is available at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section. Search for "CC 372" BPM.

3 A detailed description of CC 374 is available at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section. Search for "CC 374" BPM.

4 A detailed description of CC HO27 is available in Section 3.3.2 of the BPM at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section. Click on the "BPM for
Settlements and Billing_v17" link. Attachment B of the BPM is available at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section. Click on the "Attachment B – CG
and PCG Spec_v22" link.

- 1 • CC 5999 – FERC Mandated Interest on Re-Runs.⁵ This amount
2 is calculated and applied when the CAISO is instructed to do so
3 by FERC. The interest may be a charge or a credit, depending
4 on the result of the re-run.

5 Q 7 Why is PG&E filing a TACBAA and associated rate at this time?

6 A 7 Pursuant to Section 5.7 of PG&E's TO Tariff, FERC Electric Tariff
7 Volume No. 5, PG&E calculates and revises its TACBAA each year.
8 Typically, PG&E files its TACBAA update each December and
9 requests a rate effective date of March 1 of the following year.

10 **1. The 2020 TACBAA and Resulting Rate for End-Use Retail**
11 **Customers**

12 Q 8 What is the 2020 TACBAA and final rate calculated for End-Use
13 Retail Customers?

14 A 8 The 2020 TACBAA is a \$363,465,246 charge to End-Use Retail
15 Customers, which yields a rate of \$0.00464 per kilowatt-hour (kWh)
16 (Exhibit No. PGE-002, Table PGE-002-1). This adjustment
17 represents a decrease from the 2019 TACBAA charge of
18 \$494,816,633 and the corresponding 2019 rate of \$0.00618/kWh.

19 Q 9 Please give an overview of how the TACBAA and the resulting rate
20 were calculated.

21 A 9 The TACBAA was calculated per PG&E's TO Tariff, Section 5.7. It is
22 equal to the projected principal balance in, and associated interest
23 on, the TACBA at the end of the current rate period, plus a forecast of
24 the TAC cost difference for the upcoming rate period, plus an
25 adjustment for Revenue Fees and Uncollectible (RF&U) Accounts.
26 The rate is determined by dividing the TACBAA by the last 12 months
27 of recorded total End-Use Customer gross load (in kWhs). In the

5 A detailed description of CC 5999 is available at:
<https://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
Click on the "Business Practice Manual for Settlements and Billing" located
under the "Business practice manual" section. Search for "CC 5999" BPM.

1 following sections, I detail how the TACBAA and corresponding rate
2 were calculated.

3 **2. Balance in the TACBA**

4 Q 10 What TACBA balance, including interest, did PG&E use for purposes
5 of calculating the TACBAA in this filing?

6 A 10 As shown in Exhibit No. PGE-002, Table PGE-002-4, the balance in
7 the TACBA is a charge to End-Use Customers of \$92,625,598.

8 Q 11 What components make up the balance in the TACBA?

9 A 11 There are four components that make up the balance in the TACBA:

10 1. HVAC from the CAISO

11 The system wide HVAC is the Access Charge applicable
12 under Section 26.1.2 of the CAISO Tariff to recover the HV TRRs
13 of all PTOs. This PTO charge appears on the TO invoice that
14 PG&E receives from the CAISO.⁶

15 2. The Utility-Specific Access Charge from the CAISO

16 The system-wide HV Access Charge collected by the CAISO
17 is disbursed to the PTOs as specified under Section 26.1.3 of the
18 CAISO Tariff. A utility-specific access charge is used, which is
19 based on the PTO's individual HV TRR, as adjusted by the
20 wholesale Transmission Revenue Balancing Account (TRBA).
21 This PTO revenue also appears on the TO invoice that PG&E
22 receives from the CAISO.

23 3. Payments by End-Use Customers

24 Each month PG&E also enters a debit termed the "TACBA
25 Retail Transmission Revenue" into the TRBA. It is based on the
26 actual Retail End-Use Customers' energy usage (kWh) multiplied
27 by the applicable TACBAA rate, and represents the amount of

6 The TO invoice is an invoice presented by the CAISO specifically for PG&E as a PTO. The CAISO prepares a separate invoice for PG&E as the Scheduling Coordinator for the Existing Transmission Contracts.

1 TACBA revenue PG&E has received from its Retail End-Use
2 Customers.

3 4. Interest

4 Interest is calculated on the TACBA balance using the
5 interest rates pursuant to FERC regulations under the Federal
6 Power Act, 18 Code of Federal Regulations Section 35.19a. The
7 FERC interest rates are applied to the average TACBA principal
8 balance for each month, and are compounded quarterly.

9 Q 12 Does PG&E use a cash or accrual based accounting method for
10 tracking its TACBA?

11 A 12 PG&E uses a cash based accounting method for tracking its TACBA.
12 However, there is an exception related to the California energy crisis,
13 during which PG&E did not receive certain revenues due from the
14 CAISO under the PTO Invoice. These revenues were reflected in the
15 TACBA on an accrual basis. As of November 30, 2016, both FERC
16 and the United States Bankruptcy Courts have approved a
17 settlement⁷ that provides for the release of those revenues to PG&E.
18 However, PG&E has not amended this TACBAA filing to reflect the
19 settlement because PG&E has not completed its final accounting
20 review and reconciliation for those amounts. PG&E expects to
21 include the adjustment arising from the settlement in a subsequent
22 TACBAA filing. As with previous TACBAA filings, PG&E will include
23 interest for any adjusted amounts.

24 **3. Forecast of the TAC Charges and Credits for 2020**

25 Q 13 What are the forecasted 2020 HV charges and credits for purposes of
26 calculating the TACBAA?

27 A 13 As shown in Exhibit No. PGE-002, Table PGE-002-5, the forecast is a
28 charge of \$266,519,137 to End-Use Customers.

7 Docket No. EL00-98-000; United States Bankruptcy Court Northern District of California San Francisco Davison Case No. 01-30923 DM; and United States Bankruptcy Court Central District of California Santa Ana Division Case No. 2:01-BK-16577-ES

1 Q 14 How are the 2020 TAC charges and credits forecasted for purposes
2 of the TACBAA calculation?

3 A 14 The forecast is based on the CAISO's September 23, 2019 TAC
4 Rates Worksheet that has been updated to include the 2020 HV
5 TRRs and Gross Loads from PG&E's November 27, 2019 annual
6 update filing, Southern California Edison Company's November 22,
7 2019 annual update filing, San Diego Gas and Electric Company's
8 December 2, 2019 annual update filing, and Trans Bay Cable
9 Company's September 20, 2019 filing (Trans Bay does not file a
10 Gross Load). The filed TRRs and Gross Loads from the four listed
11 PTOs are roughly ninety-three percent of the total filed TRRs and
12 ninety-six percent of the total Gross Loads the CAISO uses to set the
13 TAC rate.

14 **4. Calculation of Revenue Fees and Uncollectible Accounts**

15 Q 15 What RF&U amount did PG&E use for purposes of calculating the
16 TACBAA?

17 A 15 As shown in Exhibit No. PGE-002, Table PGE-002-6, the RF&U
18 amount is a charge of \$4,320,511.

19 Q 16 How is the RF&U amount calculated for purposes of the TACBAA?

20 A 16 RF&U is calculated by summing the TACBA balance, including
21 interest, with the 2020 forecast, then multiplying the total by the
22 revenue fee factor from PG&E's latest Transmission Owner Rate
23 Case (Exhibit No. PGE-003).

24 Q 17 Does this conclude your prepared direct testimony?

25 A 17 Yes, it does.

DECLARATION

I, David Tam, identified in the foregoing prepared direct testimony, do hereby declare under penalty of perjury, that I prepared or caused such testimony to be prepared; that the answers appearing therein are true to the best of my knowledge and belief; and that if asked the questions appearing therein, my answers would, under oath, be the same.

Executed on December 6, 2019 at San Francisco, California.

/s/ David Tam

David Tam

PACIFIC GAS AND ELECTRIC COMPANY

EXHIBIT PGE-002

**2020 TRANSMISSION ACCESS CHARGE BALANCING ACCOUNT
ADJUSTMENT**

**Table PGE-002-1
Pacific Gas and Electric Company
2020 TACBA Adjustment
2020 TACBA Rate Calculation**

TACBAA	=		+	Br	+	Bf	-	Rf	+	RFU
		\$92,625,598				+ \$1,054,963,733		- \$788,444,596		+ \$4,320,511
		\$363,465,246								
TACBAA RATE		TACBAA		S						
		\$363,465,246				= 0.00464 \$/kWh				
		78,300,801,448 kWh								

Where:

- Br = The balance in the TACBA, including interest
- Bf = A forecast of the annual Access Charge billings from the ISO
- Rf = A forecast of the annual Access Charge revenues disbursed by the ISO
- RFU = Allocation of Revenue Fees and Uncollectibles.
- S = Most recent load, in kilowatt-hours measured at the customer-meter level, recorded for the twelve-month period prior to commencement of the October billing cycle.

Table PGE-002-2
Pacific Gas and Electric Company
2020 TACBA Adjustment
2018 TACBA Summary

CHARGE CODE	January	February	March	April	May	June	July	August	September	October	November	December
Beginning Balance												
Principal	83,824,654	70,455,598	61,458,853	56,921,163	57,397,800	52,452,969	46,945,268	37,620,644	40,398,377	45,027,056	45,101,618	53,176,334
Interest	20,685,524	21,031,990	21,338,849	21,621,742	21,915,202	22,200,340	22,466,010	22,719,071	22,959,337	23,214,078	23,496,295	23,795,354
Total Beginning Balance	104,510,177	91,487,587	82,797,702	78,542,904	79,313,002	74,653,309	69,411,278	60,339,714	63,357,715	68,241,133	68,597,913	76,971,689
TO Invoices												
High Voltage Access Charge Allocation (Due CAISO)	76,021,006	76,893,452	74,981,204	80,022,376	73,635,625	84,491,698	90,420,655	107,258,597	99,610,273	83,216,982	79,824,265	77,421,685
High Voltage Access Revenue Payment (Due PTO)	(49,416,807)	(48,660,750)	(47,730,639)	(47,534,459)	(43,816,863)	(51,897,445)	(55,248,868)	(64,380,460)	(58,354,648)	(49,284,757)	(40,320,549)	(39,366,660)
Historical Market Correction	26,604,399	28,232,703	27,250,565	32,487,917	30,118,642	32,594,244	35,171,697	42,878,117	41,255,425	33,952,225	39,503,709	38,025,025
Total TO Invoices	(39,973,455)	(37,229,447)	(31,788,255)	(32,011,280)	(35,063,473)	(38,101,944)	(44,496,322)	(40,100,383)	(36,626,747)	(33,877,662)	(31,426,993)	(32,828,220)
TACBA Retail Transmission Revenues												
Interest	4.25%	4.25%	4.25%	4.47%	4.47%	4.47%	4.69%	4.69%	4.69%	4.96%	4.96%	4.96%
Interest Rate	346,466	306,660	282,893	293,460	285,138	265,670	253,061	240,267	254,740	282,217	299,059	326,487
Total Interest Payment												
Ending Balance												
Principal	70,455,598	61,458,853	56,921,163	57,397,800	52,452,969	46,945,268	37,620,644	40,398,377	45,027,056	45,101,618	53,176,334	58,373,140
Interest	21,031,990	21,338,849	21,621,742	21,915,202	22,200,340	22,466,010	22,719,071	22,959,337	23,214,078	23,496,295	23,795,354	24,121,841
Total Ending Balance	91,487,587	82,797,702	78,542,904	79,313,002	74,653,309	69,411,278	60,339,714	63,357,715	68,241,133	68,597,913	76,971,689	82,494,982

Table PGE-002-3
Pacific Gas and Electric Company
2020 TACBA Adjustment
2019 TACBA Summary

CHARGE CODE	Projection											
	January	February	March	April	May	June	July	August	September	October	November	December
Beginning Balance												
Principal	58,373,140	63,066,709	67,716,253	61,923,632	54,590,593	50,687,214	28,357,651	6,049,553	(11,024,189)	(22,795,457)	(29,376,088)	(21,301,372)
Interest	24,121,841	24,488,075	24,874,474	25,258,406	25,637,706	25,991,490	26,285,703	26,485,029	26,594,104	26,637,077	26,639,567	26,645,432
Total Beginning Balance	82,494,982	87,554,784	92,590,727	87,182,039	80,228,299	76,678,703	54,643,354	32,534,582	15,569,916	3,841,621	(2,736,521)	5,344,060
TO Invoices												
High Voltage Access Charge Allocation(Due CAISO)	83,358,150	79,828,563	72,005,367	69,960,569	69,756,578	87,860,005	100,089,941	108,113,667	111,089,175	93,892,570	79,824,255	77,421,685
High Voltage Access Revenue Payment (Due PTO)	(46,388,132)	(45,443,145)	(41,157,330)	(39,747,576)	(35,984,222)	(66,484,807)	(73,816,824)	(76,775,779)	(78,613,322)	(65,272,184)	(40,320,546)	(39,396,660)
Historical Market Correction	36,570,018	34,385,418	30,846,037	30,212,893	33,774,356	21,375,198	26,273,118	31,337,788	32,475,853	28,620,386	39,503,709	38,025,025
Total TO Invoices	(32,276,449)	(29,735,874)	(36,640,657)	(37,546,033)	(37,677,735)	(43,704,761)	(48,581,216)	(46,411,630)	(44,247,121)	(35,201,018)	(31,428,993)	(32,828,220)
TACBA Retail Transmission Revenues												
Interest	5.18%	5.18%	5.18%	5.45%	5.45%	5.45%	5.50%	5.50%	5.50%	5.42%	5.42%	5.42%
Interest Rate	366,234	386,399	383,932	379,300	353,784	294,213	199,326	109,076	42,973	2,490	5,864	35,836
Total Interest Payment												
Ending Balance												
Principal	63,066,709	67,716,253	61,923,632	54,590,593	50,687,214	28,357,651	6,049,553	(11,024,189)	(22,795,457)	(29,376,088)	(21,301,372)	(16,104,566)
Interest	24,488,075	24,874,474	25,258,406	25,637,706	25,991,490	26,285,703	26,485,029	26,594,104	26,637,077	26,639,567	26,645,432	26,681,267
Total Ending Balance	87,554,784	92,590,727	87,182,039	80,228,299	76,678,703	54,643,354	32,534,582	15,569,916	3,841,621	(2,736,521)	5,344,060	10,576,701

**Table PGE-002-5
Pacific Gas and Electric Company
2020 TACBA Adjustment
TACBA Forecast**

Bf	=		GL	x	
					CAISO HVAC
		85,012,937			MWh x 12.4094 \$/MWh
					\$1,054,963,733
Rf					
					GL x PG&E HVAC
		85,012,937			MWh x 9.2744 \$/MWh
					\$788,444,596
Net Charge to Customers					Bf - Rf
					\$266,519,137

Where:

- Bf = A forecast of the annual Access Charge billings from the ISO
- Rf = A forecast of the annual Access Charge revenues disbursed by the ISO to the Participating TO pursuant to Appendix F: Schedule 3 of the ISO Tariff
- CAISO HVAC = 2020 CAISO High Voltage Access Charge Forecast (See PGE-003, TAC Forecast)
- PG&E HVAC = PG&E's Utility Specific High Voltage Access Charge for March 1, 2020; which includes the as-filed TO20 RY2020 HV Base Revenue Requirement (Docket No. ER19-13-000) and the 2020 HV TRBAA (Docket No. ER20-100-000)
- GL = 85,012,937 MWh load forecast from as-filed TO20 RY2020 Annual Update (Docket No. ER19-13-000)

Table PGE-002-6
Pacific Gas and Electric Company
2020 TACBA Adjustment
TACBAA Revenue Fees & Uncollectibles Calculation

Line 1	Revenue Fees & Uncollectibles Factor	0.01203
Line 2	Balance of TACBA	\$92,625,598
Line 3	TACBA Forecast	\$266,519,137
Line 4	Revenue Fees & Uncollectibles Allocation to TRBAA	\$4,320,511

Line 1 × (Line 2 + Line 3)

PACIFIC GAS AND ELECTRIC COMPANY

EXHIBIT PGE-003

SUPPORTING DATA AND WORKPAPERS

2020 Transmission Access Charge Forecast

Pacific Gas and Electric Company
 2020 TACBA Adjustment
 2020 TAC Forecast

23 Sep 2019 TAC Rates Worksheet with Updated Filed Annual TRRs and Gross Load

TAC Components:

	Filed Annual TRR (\$) [1]	Filed Annual Gross Load (MWh) [2]	HV Utility Specific Rate (\$/MWh) [3] = [1] / [2]	TAC Rate (\$/MWh) [4] = total [1] / total [2]	TAC Amount (\$) [5] = (2) * [4]
PG&E	\$ 788,444,596	85,012,937	\$ 9,2744	12.4094	\$ 1,054,963,733
SCE	\$ 861,655,306	87,036,035	\$ 9,9000	12.4094	\$ 1,080,069,263
SDG&E	\$ 504,820,290	18,589,407	\$ 27,1563	12.4094	\$ 230,684,304
Anaheim	\$ 30,020,588	2,507,620	\$ 11,9717	12.4094	\$ 31,118,183
Azusa	\$ 1,171,341	257,416	\$ 4,5504	12.4094	\$ 3,194,391
Banning	\$ 824,482	144,662	\$ 5,6998	12.4094	\$ 1,795,052
Pasadena	\$ 16,189,539	1,065,579	\$ 15,1932	12.4094	\$ 13,223,249
Riverside	\$ 34,962,315	2,180,985	\$ 16,0305	12.4094	\$ 27,064,823
Vernon	\$ 2,425,629	1,154,492	\$ 2,1010	12.4094	\$ 14,326,610
DATC Path 15	\$ 25,142,901	-	\$ -	12.4094	\$ 0
Startrans IO	\$ 3,270,897	-	\$ -	12.4094	\$ 0
Trans Bay Cable	\$ 144,119,426	-	\$ -	12.4094	\$ 0
Citizens Sunrise	\$ 14,162,581	-	\$ -	12.4094	\$ 0
Colton	\$ 1,216,387	372,179	\$ 3,2683	12.4094	\$ 4,618,536
VEA	\$ -	544,970	\$ -	12.4094	\$ 6,762,778
GLW	\$ 35,181,945	-	\$ -	12.4094	\$ 0
MCCT	\$ 881,085	-	\$ -	12.4094	\$ 0
CSPT	\$ 3,331,612	-	\$ -	12.4094	\$ 0
ISO Total	\$ 2,467,820,921	198,866,272		12.4094	\$ 2,467,820,921

**Pacific Gas and Electric Company
2020 TACBA Adjustment
2020 TAC Forecast Components**

Updated 23 Sep 2019 ISO Access Charge Rate

HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS			Info Only	
PTO	Total HV Filed TRR	Total LV Filed TRR	Combined TRR	
PTO	Base TRR	977,113,947	1,259,379,846	2,236,493,793
	TRBAA	(183,646,502)	(53,736,487)	(237,382,989)
	Standby Credit	(5,022,848)	(6,388,556)	(11,411,405)
	Total	788,444,596	1,199,254,803	1,987,699,399
PG&E	Gross Load	85,012,937	85,012,937	85,012,937
	Utility Specific Access Charges (\$/MWh)	9.2744	14.1067	23.3811
	TRR - Eff. Date - Docket#	1/1/2020 ER19-13		
	TRBA - Eff. Date - Docket#	1/1/2020 ER20-100		
SCE	Base TRR	929,239,816	28,454,413	957,694,229
	TRBAA	(61,021,516)	(220,709)	(61,242,225)
	Standby Credit	(6,562,994)	(200,967)	(6,763,961)
	Total	861,655,306	28,032,737	889,688,043
SCE	Gross Load	87,036,035	87,036,035	87,036,035
	Utility Specific Access Charges (\$/MWh)	9.9000	0.3221	10.2221
	TRR - Eff. Date - Docket#	1/1/2020 ER18-169		
	TRBA - Eff. Date - Docket#	1/1/2020 ER19-220		
SDG&E	Base TRR	532,184,515	333,270,527	865,455,042
	TRBAA	(19,022,459)	(340,171)	(19,362,630)
	Standby Credit	(8,341,766)	(5,223,874)	(13,565,640)
	Total	504,820,290	327,706,482	832,526,772
SDG&E	Gross Load	18,589,407	18,589,407	18,589,407
	Utility Specific Access Charges (\$/MWh)	27.1563	17.6287	44.7850
	TRR - Eff. Date - Docket#	6/1/2019 - ER19-221		
	TRBA - Eff. Date - Docket#	1/1/2019 ER19-209		
Vernon	Base TRR	2,446,805		2,446,805
	TRBAA	(21,176)		(21,176)
	Standby Credit	-		-
	Total	2,425,629		2,425,629
Vernon	Gross Load	1,154,492		1,154,492
	Utility Specific Access Charges (\$/MWh)	2.1010		2.1010
	TRR - Eff. Date - Docket#	1/1/2019 NJ19-1		
	TRBA - Eff. Date - Docket#	1/1/2019 NJ19-1		
Anaheim	Base TRR	30,000,000		30,000,000
	TRBAA	20,588		20,588
	Standby Credit	-		-
	Total	30,020,588		30,020,588
Anaheim	Gross Load	2,507,620		2,507,620
	Utility Specific Access Charges (\$/MWh)	11.9717		11.9717
	TRR - Eff. Date - Docket#	7/1/2011 ER11-3594		
	TRBA - Eff. Date - Docket#	1/1/2019 NJ19-5		
Azusa	Base TRR	1,165,163		1,165,163
	TRBAA	6,178		6,178
	Standby Credit	-		-
	Total	1,171,341		1,171,341
Azusa	Gross Load	257,416		257,416
	Utility Specific Access Charges (\$/MWh)	4.5504		4.5504
	TRR - Eff. Date - Docket#	1/1/2019 NJ19-7		
	TRBA - Eff. Date - Docket#	1/1/2019 NJ19-7		

Updated 23 Sep 2019 ISO Access Charge Rate

HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS			Info Only	
PTO	Total HV Filed TRR	Total LV Filed TRR	Combined TRR	
Banning	Base TRR	825,727	825,727	
	TRBAA	(1,245)	(1,245)	
	Standby Credit	-	-	
	Total	824,482	824,482	
	Gross Load	144,652	144,652	
	Utility Specific Access Charges (\$/MWh)	5.6998	0.0000	5.6998
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	1/1/2019 NJ19-6 1/1/2019 NJ19-6		
Pasadena	Base TRR	16,138,550	16,138,550	
	TRBAA	50,989	50,989	
	Standby Credit	-	-	
	Total	16,189,539	16,189,539	
	Gross Load	1,065,579	1,065,579	
	Utility Specific Access Charges (\$/MWh)	15.1932		15.1932
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	3/1/2019 ER19-1136 1/1/2019 NJ19-8		
Riverside	Base TRR	34,912,491	34,912,491	
	TRBAA	49,824	49,824	
	Standby Credit	-	-	
	Total	34,962,315	34,962,315	
	Gross Load	2,180,985	2,180,985	
	Utility Specific Access Charges (\$/MWh)	16.0305		16.0305
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	1/1/2019 NJ19-4 1/1/2019 NJ19-4		
DATC Path 15	Base TRR	25,571,090	25,571,090	
	TRBAA	(428,189)	(428,189)	
	Standby Credit	-	-	
	Total	25,142,901	25,142,901	
	Gross Load	-	-	
	Utility Specific Access Charges (\$/MWh)	0.0000		0.0000
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	04/20/2017 ER17-998 1/1/2019 ER19-265		
Startrans IO	Base TRR	3,330,000	3,330,000	
	TRBAA	(59,103)	(59,103)	
	Standby Credit	-	-	
	Total	3,270,897	3,270,897	
	Gross Load	-	-	
	Utility Specific Access Charges (\$/MWh)	0.0000		0.0000
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	1/6/2016 ER16-2192 1/1/2019 ER19-235		
Trans Bay Cable	Base TRR	146,116,836	157,284,000	
	TRBAA	(1,997,410)	(2,112,185)	
	Standby Credit	-	-	
	Total	144,119,426	155,171,815	
	Gross Load	-	-	
	Utility Specific Access Charges (\$/MWh)	0.0000	0.1300	0.0000
	TRR - Eff. Date - Docket# TRBA - Eff. Date - Docket#	4/23/2017 ER16-2632 1/1/2019 ER19-740		

Updated 23 Sep 2019 ISO Access Charge Rate

HIGH VOLTAGE AND LOW VOLTAGE COMPONENTS				
PTO	Total HV Filed TRR	Total LV Filed TRR	Info Only Combined TRR	
Citizens Sunrise	Base TRR	14,286,271	-	14,286,271
	TRBAA	(123,690)	-	(123,690)
	Standby Credit	-	-	-
	Total	14,162,581	-	14,162,581
Colton	Gross Load	-	-	-
	Utility Specific Access Charges (\$/MWh)	0.0000	0.0000	0.0000
	TRR - Eff. Date - Docket#	6/1/2019 ER19-2000		
	TRBA - Eff. Date - Docket#	1/1/2019 ER19-45		
VEA	Base TRR	1,209,989	-	1,209,989
	TRBAA	6,397	-	6,397
	Standby Credit	-	-	-
	Total	1,216,387	-	1,216,387
GLW	Gross Load	372,179	-	372,179
	Utility Specific Access Charges (\$/MWh)	3.2683	0.0000	3.2683
	TRR - Eff. Date - Docket#	1/1/2019 NJ19-9		
	TRBA - Eff. Date - Docket#	1/1/2019 NJ19-9		
MCCT	Base TRR	-	3,413,410	3,413,410
	TRBAA	-	-	-
	Standby Credit	-	-	-
	Total	-	3,413,410	3,413,410
CSPT	Gross Load	544,970	544,970	544,970
	Utility Specific Access Charges (\$/MWh)	0.0000	6.2635	6.2635
	TRR - Eff. Date - Docket#	9/15/2017 ER17-727		
	TRBA - Eff. Date - Docket#	9/15/2017 ER17-727		
Total CAISO Grid	Base TRR	36,024,402	-	36,024,402
	TRBAA	(842,457)	-	(842,457)
	Standby Credit	-	-	-
	Total	35,181,945	-	35,181,945
Total CAISO Grid	Gross Load	-	-	-
	Utility Specific Access Charges (\$/MWh)	0.0000	0.0000	0.0000
	TRR - Eff. Date - Docket#	1/1/2019 ER19-852		
	TRBA - Eff. Date - Docket#	1/1/2019 ER19-741		
Total CAISO Grid	Base TRR	881,085	-	881,085
	TRBAA	-	-	-
	Standby Credit	-	-	-
	Total	881,085	-	881,085
Total CAISO Grid	Gross Load	-	-	-
	Utility Specific Access Charges (\$/MWh)	0.0000	0.0000	0.0000
	TRR - Eff. Date - Docket#	1/1/2019 ER19-823		
	TRBA - Eff. Date - Docket#	-		
Total CAISO Grid	Base TRR	3,331,612	-	3,331,612
	TRBAA	-	-	-
	Standby Credit	-	-	-
	Total	3,331,612	-	3,331,612
Total CAISO Grid	Gross Load	-	-	-
	Utility Specific Access Charges (\$/MWh)	0.0000	0.0000	0.0000
	TRR - Eff. Date - Docket#	9/23/2019 ER18-1442		
	TRBA - Eff. Date - Docket#	-		
Total CAISO Grid	Base TRR	2,754,778,299	1,635,685,360	4,390,463,659
	TRBAA	(267,029,770)	(54,412,142)	(321,441,912)
	Standby Credit	(19,927,608)	(11,813,397)	(31,741,006)
	Total	2,467,820,921	1,569,459,821	4,037,280,741
Total CAISO Grid	Gross Load	198,866,272		
	Utility Specific Access Charges (\$/MWh)	12.4094		

TO20 RY2020

Schedule 25

Franchise Fees Factors

Pacific Gas and Electric Company
 Formula Rate Model
 Schedule 25-RFandUFactors

Revenue Fees and Uncollectible Factors

Prior Year: 2018

Input cells are shaded gold

<u>Line</u>						<u>Line</u>
1) Approved Franchise Fee Factor(s)						
	<u>From</u>	<u>To</u>	<u>Days in Prior Year</u>	<u>Franchise Fee Factor</u>	<u>Reference</u>	
1		Present	365	0.8158%	WP_25_RFandUFactors_FF	1
2	---					2
2) Approved San Francisco Gross Receipts Tax Factor(s)						
	<u>From</u>	<u>To</u>	<u>Days in Prior Year</u>	<u>SFGR Tax Factor</u>	<u>Reference</u>	
3		Present	365	0.0487%	WP_25_RFandUFactors_SFGR	3
4	---					4
3) Approved Uncollectible Factor(s)						
	<u>From</u>	<u>To</u>	<u>Days in Prior Year</u>	<u>Uncollectible Factor</u>	<u>Reference</u>	
5		Present	365	0.3385%	WP_25-RFandUFactors_U	5
6	---					6
4) Calculation of Weighted Average RF&U Factors						
7	Franchise Fee Factor			0.8158%		7
8	SFGR Tax Factor			0.0487%		8
9	Uncollectibles Factor			0.3385%		9

**Workpapers Supporting Schedule 25
Franchise Fees Factor**

WP_25-RFandUFactors_FF

Pacific Gas and Electric Company
TO Tariff Rate Year 2019
Franchise Fee Factor
WP_25-RFandUFactors 1

Development of Electric Franchise Fee Factor
Based on 2018 Recorded Data

Line	Recorded Electric Data	Data Source / Notes	Line
Franchise Fee Factor:			
100	Recorded Franchise Fee Expense	\$104,225,981 Note 1	100
101	Franchise Fee Revenues (Line 7)	\$12,775,526,275	101
102	Franchise Rate [Line 1 / Line 2]	<u>0.008158</u>	102
Revenue Calculation:			
103	Total Billed Energy Revenues	\$12,848,982,153 Note 2	103
104	Interdepartmental Revenues	(\$46,634,494) Note 2	104
105	Uncollectible Expense	(\$26,821,384) Note 3	105
106	Franchise Fee Revenues	\$12,775,526,275	106

Notes:

- 1) Customer Care and Billing System (CC&B) Franchise Fees annual report summarizing franchise fees pass-through surcharges and Franchise Fees payments to cities and counties.
- 2) Revenue Reporting System (RRS) Customer Billing report of annual electric revenues by cities and counties.
- 3) SAP report query by FERC account 904 report showing annual uncollectibles expense.

Workpapers Supporting Schedule 25
San Francisco Gross Receipts Tax Factor

WP_25-RFandUFactors_SFGR

PACIFIC GAS AND ELECTRIC COMPANY
WP_25-RFandUFactors_SFGR
CCSF GROSS RECEIPTS TAX FACTOR
2018SFGRPct

<u>Line No.</u>		<u>Recorded 2018</u>
1	San Francisco Apportionment	2,023,284,334
2	Total Company Gross Receipts	16,621,677,147
3	San Francisco Apportionment Factor <i>[Line 1 / Line 2]</i>	12.173%
4	Estimated 2018 Tax Rate (a)	<u>0.40%</u>
5	San Francisco Gross Receipts Factor <i>[Line 3 x Line 4]</i>	<u>0.0487%</u>

(a) San Francisco Business Tax Regulation Code- Article 12-A-1:

Workpapers Supporting Schedule 25
Uncollectibles Factor

WP_25-RFandUFactors_U

Pacific Gas and Electric Company
Calculation of 2019 Uncollectibles Factor
Using the Ten Year Rolling Average Method
(Nominal Dollars)

	Col 1	Col 2	Col 3	Col 4 (Col 3/ Col 2)
Line	Year	Revenue	Net Write-Off	Factor
1	2017	17,715,836,118	42,563,022	0.002403
2	2016	16,866,196,864	42,205,795	0.002502
3	2015	16,073,290,648	46,295,925	0.002880
4	2014	15,512,016,771	52,813,891	0.003405
5	2013	15,321,271,461	59,368,755	0.003875
6	2012	14,827,143,094	57,972,520	0.003910
7	2011	14,629,492,318	54,258,945	0.003709
8	2010	14,741,296,164	37,988,685	0.002577
9	2009	14,414,013,463	70,821,246	0.004913
10	2008	15,173,862,974	55,803,703	0.003678
11		<u>Uncollectibles Factor</u>		<u>0.003385</u> (sum of Col
		-10-year Average (GRC D.17-05-013 method)		

The Source of the data is the COLD CC-1014 report which downloads customer revenue and net write - off data from PG&E's Customer Care & Billing (CC&B) system.

Attachment 2

Revisions to the TO Tariff Clean and Redlined Versions

PACIFIC GAS AND ELECTRIC COMPANY
TRANSMISSION OWNER TARIFF
2020 TRANSMISSION ACCESS CHARGE BALANCING
ACCOUNT ADJUSTMENT RATE FILING

CLEAN

APPENDIX III

**APPENDIX III:
 ACCESS CHARGES FOR END-USE SERVICE**

Base transmission rates for service to End-Use Customers are calculated pursuant to the Formula Rate, Appendix VIII. PG&E will post the base transmission rates applicable to each End-Use rate schedule on its website: www.pge.com.

The ECRBAA Rates for each End-Use Customer Schedule are as follows:

SCHEDULES	ECRBAA RATES
RESIDENTIAL E-1 and EL-1 (CARE) E-6 and EL-6 (CARE) E-7 and EL-7 (CARE) E-8 and EL-8 (CARE) E-9 EM and EML (CARE) EM TOU and EML TOU (CARE) ES and ESL (CARE) ESR and ESRL (CARE) ET and ETL (CARE) <p style="text-align: right;">Energy Charge (\$/kWh)</p>	(\$0.00000)
COMMERCIAL and INDUSTRIAL A-1 A-6 A-15 TC-1 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	(\$0.00000)
COMMERCIAL and INDUSTRIAL A-10 E-19 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	(\$0.00000)
COMMERCIAL and INDUSTRIAL E-20 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	(\$0.00000)

SCHEDULES	ECRBAA RATES
COMMERCIAL and INDUSTRIAL E-37 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
COMMERCIAL and INDUSTRIAL S <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
AGRICULTURAL AG-1 AG-R AG-V AG-4 AG-5 AG-ICE <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
STREETLIGHTING LS-1 LS-2 LS-3 OL-1 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)

In addition, the following transmission rates shall apply to service provided to all End-Use Customers:

TRBAA Rate of (\$0.00304) per kWh;

TACBAA Rate of \$0.00464 per kWh.

The applicability of these rates is described in the California Public Utilities Commission jurisdictional retail tariffs.

PACIFIC GAS AND ELECTRIC COMPANY
TRANSMISSION OWNER TARIFF
2020 TRANSMISSION ACCESS CHARGE BALANCING
ACCOUNT ADJUSTMENT RATE FILING

REDLINE

APPENDIX III

**APPENDIX III:
 ACCESS CHARGES FOR END-USE SERVICE**

Base transmission rates for service to End-Use Customers are calculated pursuant to the Formula Rate, Appendix VIII. PG&E will post the base transmission rates applicable to each End-Use rate schedule on its website: www.pge.com.

The ECRBAA Rates for each End-Use Customer Schedule are as follows:

SCHEDULES	ECRBAA RATES
RESIDENTIAL E-1 and EL-1 (CARE) E-6 and EL-6 (CARE) E-7 and EL-7 (CARE) E-8 and EL-8 (CARE) E-9 EM and EML (CARE) EM TOU and EML TOU (CARE) ES and ESL (CARE) ESR and ESRL (CARE) ET and ETL (CARE) <p style="text-align: right;">Energy Charge (\$/kWh)</p>	<p>(\$0.00000)</p>
COMMERCIAL and INDUSTRIAL A-1 A-6 A-15 TC-1 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	<p>(\$0.00000)</p>
COMMERCIAL and INDUSTRIAL A-10 E-19 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	<p>(\$0.00000)</p>
COMMERCIAL and INDUSTRIAL E-20 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	<p>(\$0.00000)</p>

SCHEDULES	ECRBAA RATES
COMMERCIAL and INDUSTRIAL E-37 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
COMMERCIAL and INDUSTRIAL S <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
AGRICULTURAL AG-1 AG-R AG-V AG-4 AG-5 AG-ICE <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)
STREETLIGHTING LS-1 LS-2 LS-3 OL-1 <p style="text-align: right;">Energy Charge (\$/kWh)</p>	 (\$0.00000)

In addition, the following transmission rates shall apply to service provided to all End-Use Customers:

TRBAA Rate of (\$0.00304) per kWh;

TACBAA Rate of \$0.00~~464618~~ per kWh.

The applicability of these rates is described in the California Public Utilities Commission jurisdictional retail tariffs.

Attachment 3

Revenue Comparison Statements BG and BH

Pacific Gas and Electric Company
TACBAA Revenues at Present and Proposed Rates

Pacific Gas & Electric Company							
Transmission Access Charge Balancing Account Adjustment (TACBAA)							
Code	Class Name	Period I	Period II	Statement BG - Proposed		Statement BH - Present	
		2018 Recorded Retail Volumes	2020 Test Year Retail Volumes	Period I	Period II	Period I	Period II
				\$0.00464 per kWh		\$0.00618 per kWh	
RES-	Residential	27,541,690,729	27,794,305,854	\$127,791,494	\$128,963,027	\$170,205,051	\$171,765,411
A1-	Small L&P	7,965,626,588	7,940,794,056	\$36,960,507	\$36,845,284	\$49,227,572	\$49,074,107
A10-	Medium L&P	8,467,455,338	8,161,400,664	\$39,288,993	\$37,868,899	\$52,328,874	\$50,437,456
E19-	At Transmission	29,227,432	26,174,745	\$135,615	\$121,451	\$180,626	\$161,760
E19-	At Primary	1,067,719,832	1,055,092,062	\$4,954,220	\$4,895,627	\$6,598,509	\$6,520,469
E19-	At Secondary	12,417,722,551	12,656,502,678	\$57,618,233	\$58,726,172	\$76,741,525	\$78,217,187
STL-	Streetlights	280,304,888	244,909,574	\$1,300,615	\$1,136,380	\$1,732,284	\$1,513,541
AGA-	AG: A Schedules	513,766,650	427,227,754	\$2,383,877	\$1,982,337	\$3,175,078	\$2,640,268
AGB-	AG: B Schedules	5,912,904,618	5,217,525,024	\$27,435,877	\$24,209,316	\$36,541,751	\$32,244,305
E20-	At Transmission	5,955,100,080	6,046,714,283	\$27,631,664	\$28,056,754	\$36,802,518	\$37,368,694
E20-	At Primary	6,587,799,235	7,031,578,269	\$30,567,388	\$32,626,523	\$40,712,599	\$43,455,154
E20-	At Secondary	2,395,172,440	2,379,510,459	\$11,113,600	\$11,040,929	\$14,802,166	\$14,705,375
STB-	At Transmission	430,034,169	421,598,679	\$1,995,359	\$1,956,218	\$2,657,611	\$2,605,480
STB-	At Primary	28,051,915	28,798,838	\$130,161	\$133,627	\$173,361	\$177,977
STB-	At Secondary	<u>2,226,073</u>	<u>6,798,572</u>	<u>\$10,329</u>	<u>\$31,545</u>	<u>\$13,757</u>	<u>\$42,015</u>
Totals:		79,594,802,538	79,438,931,511	\$369,319,884	\$368,594,090	\$491,895,880	\$490,929,197

Notes:

1) Residential Revenues excludes MARL Sales (TACBAA not applicable) for both Period I - 2018 and Period II - 2020.

	<u>2018 Recorded</u>	<u>2020 Test Year</u>
MARL Sales	420,365	550,041

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