

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



Pacific Gas & Electric Company
ELC (Corp ID 39)
Status of Advice Letter 6767E
As of March 30, 2023

Subject: Modifications to PG&E's Transmission Load Operating Agreement Form 79-847

Division Assigned: Energy

Date Filed: 11-17-2022

Date to Calendar: 11-23-2022

Authorizing Documents: None

Disposition:	Accepted
Effective Date:	04-14-2023

Resolution Required: No

Resolution Number: None

Commission Meeting Date: None

CPUC Contact Information:

edtariffunit@cpuc.ca.gov

AL Certificate Contact Information:

Kimberly Loo

(415)973-4587

PGETariffs@pge.com

PUBLIC UTILITIES COMMISSION
505 Van Ness Avenue
San Francisco CA 94102-3298



To: Energy Company Filing Advice Letter

From: Energy Division PAL Coordinator

Subject: Your Advice Letter Filing

The Energy Division of the California Public Utilities Commission has processed your recent Advice Letter (AL) filing and is returning an AL status certificate for your records.

The AL status certificate indicates:

- Advice Letter Number
- Name of Filer
- CPUC Corporate ID number of Filer
- Subject of Filing
- Date Filed
- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)
- Effective Date of Filing
- Other Miscellaneous Information (e.g., Resolution, if applicable, etc.)

The Energy Division has made no changes to your copy of the Advice Letter Filing; please review your Advice Letter Filing with the information contained in the AL status certificate, and update your Advice Letter and tariff records accordingly.

All inquiries to the California Public Utilities Commission on the status of your Advice Letter Filing will be answered by Energy Division staff based on the information contained in the Energy Division's PAL database from which the AL status certificate is generated. If you have any questions on this matter please contact the:

Energy Division's Tariff Unit by e-mail to
edtariffunit@cpuc.ca.gov

November 17, 2022

Advice 6767-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Modifications to PG&E's Transmission Load Operating Agreement
Form 79-847**

Purpose

PG&E is requesting approval of proposed revisions to its Transmission Load Operating Agreement (Form 79-847). Updated Form 79-847 is included in Attachment 1.

Background

On October 16, 1995, PG&E submitted Advice 1537-E, the Transmission Load Operating Agreement (Form 79-847). The Transmission Load Operating Agreement establishes operational procedures between transmission load customers and PG&E. The Transmission Load Operating Agreement was reviewed and revised to include updates in terminology and definitions, as well as minor corrections to phrasing and updates of load entity responsibilities.

Tariff Revisions

PG&E has amended the agreement to reflect updates in definitions and provide clarity for its customers.

- The phrase Grid Control Center or GCC replaces the phrases System Operators and Designated PG&E Switching Center throughout the agreement.
- Added definition to the California Independent System Operator (CAISO) in section 1.
- Revised section 4 to include the responsibilities of the Load Entity during rotating outages consistent with the approved Electric Emergency Plan.

- Added section 5 (Other Communications) to detail responsibilities of the Load Entity in notifying PG&E.

For your convenience, PG&E has included redline revisions in Attachment 2.

This submittal would not increase any current rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

Protests

Anyone wishing to protest this submittal may do so by letter sent electronically via E-mail, no later than December 7, 2022, which is 20 days after the date of this submittal. Protests must be submitted to:

CPUC Energy Division
ED Tariff Unit
E-mail: EDTariffUnit@cpuc.ca.gov

The protest shall also be electronically sent to PG&E via E-mail at the address shown below on the same date it is electronically delivered to the Commission:

Sidney Bob Dietz II
Director, Regulatory Relations
c/o Megan Lawson
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 and 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

Pursuant to General Order (GO) 96-B, Rule 5.2, this advice letter is submitted with a Tier 2 designation. PG&E requests that this Tier 2 advice submittal become effective on regular notice, December 17, 2022, which is 30 calendar days after the date of submittal.

Notice

In accordance with General Order 96-B, Section IV, a copy of this advice letter is being sent electronically to 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



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: Kimberly Loo

Phone #: (415)973-4587

E-mail: PGETariffs@pge.com

E-mail Disposition Notice to: KELM@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) #: 6767-E

Tier Designation: 2

Subject of AL: Modifications to PG&E's Transmission Load Operating Agreement Form 79-847

Keywords (choose from CPUC listing): Form

AL Type: Monthly Quarterly Annual One-Time Other:

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

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: 12/17/22

No. of tariff sheets: 3

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: See Attachment 1

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

California Public Utilities Commission
Energy Division Tariff Unit Email:
EDTariffUnit@cpuc.ca.gov

Contact Name: Sidnev Bob Dietz II. c/o Megan Lawson
Title: Director, Regulatory Relations
Utility/Entity Name: Pacific Gas and Electric Company

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email: PGETariffs@pge.com

Contact Name:
Title:
Utility/Entity Name:

Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

CPUC
Energy Division Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102

Clear Form

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
54731-E	Electric Sample Form No. 79-847 Transmission Load Operating Agreement Sheet 1	48689-E
54732-E	ELECTRIC TABLE OF CONTENTS Sheet 1	54467-E
54733-E	ELECTRIC TABLE OF CONTENTS Sheet 30	52256-E



Electric Sample Form No. 79-847
Transmission Load Operating Agreement

Sheet 1

**Please Refer to Attached
Sample Form**



TRANSMISSION LOAD OPERATING AGREEMENT

DISTRIBUTION

- XXXX
- XXXX
- XXXX
- XXXX
- _____

REFERENCE

THIS LOAD OPERATING AGREEMENT (the “Agreement”) is effective as of the date last executed by the parties hereto by and between PACIFIC GAS AND ELECTRIC COMPANY (“PG&E”), a California corporation, and _____ (“Load Entity”) a _____. PG&E and the Load Entity are sometimes referred to collectively as the “parties” and individually as the “party.”

RECITALS

A. PG&E and the Load Entity have made arrangements under PG&E’s tariffs for an interconnection and power deliveries between the PG&E Transmission System and the Load Entity’s substation facility with the designated name of, _____, located at _____ (the “Interconnection Facility.”)

B. Among other things, this Load Operating Agreement obligates the Load Entity to operate its Substation in a safe and prudent manner.

C. As part of this obligation, it is important that the Load Entity stay in close contact with PG&E system operators.

D. This Agreement sets up operating responsibilities and associated procedures for communications between the Load Entity and PG&E’s Grid Control Center (GCC). The Agreement also establishes procedures for safe work on electric systems and routine test procedures.

† Information collected on this form is used in accordance with PG&E’s Privacy Policy. The Privacy Policy is available at pge.com/privacy.

TRANSMISSION LOAD OPERATING AGREEMENT

AGREEMENT

THEREFORE, in consideration of the rights and responsibilities set forth herein, the parties agree as follows:

1. DEFINITIONS

When underlined, the following terms shall have the following meanings:

“Clearance Point” -- The points that isolate equipment from possible sources of energy.

“California Independent System Operator (CAISO)” --The CAISO has operational control over most of the PG&E electric transmission grid operating at voltages of 60 kV and above. The jurisdiction of the CAISO includes control of operations involving customer loads that are directly connected to the CAISO controlled grid as described in the CAISO Tariff and any written agreements between the Load Entity or Transmission Entity and the CAISO. Under the CAISO’s control and instruction, PG&E will continue to serve as the primary point of contact for Load Entities and will communicate and coordinate with the CAISO as specified in CAISO protocols, operating procedures and tariffs.

“Grid Control Center (GCC)” -- PG&E’s GCC has operational jurisdiction over the Load Entity’s Substation. The GCC is staffed 24 hours a day.

“Emergency” -- An abnormal condition or situation that adversely affects, or potentially may adversely affect, PG&E’s Electric System Integrity.

“Interconnection Facilities” -- All apparatus installed to interconnect and deliver power between the PG&E system and the Load Entity’s substation. Interconnection Facilities include, but are not limited to, connection, transformation, switching, metering, and communications equipment, as well as any necessary additions, modifications and reinforcements to the PG&E system necessitated as a result of interconnecting the Load



TRANSMISSION LOAD OPERATING AGREEMENT

Entity's Facility to the PG&E system. Interconnection Facilities also include control and safety equipment to protect (1) the PG&E system and its customers from faults occurring at the Load Entity's Facility and substation, and (2) the Load Entity's Facility and substation from faults occurring on the PG&E system or on the system of others to which the PG&E system is directly or indirectly connected.

"Non-Test" -- A procedure used in connection with work on a live line or near an energized circuit. In a Non-Test, PG&E will require that the Load Entity contact the GCC before re-energizing a circuit following an automatic trip.

"PG&E Electric System Integrity" -- The state of operation of PG&E's electric system in a manner that is deemed to minimize the risk of injury to persons and/or property and enable PG&E to provide adequate and reliable electric service to its customers.

2. TERM OF AGREEMENT

This Agreement shall be binding upon execution by both parties. It shall terminate thirty days after the date on which the Load Entity's substation facility ceases to be interconnected to the PG&E electric system. This Agreement may also be terminated by mutual written consent of the parties.

3. RESPONSIBILITY AND AUTHORITY

3.1 The Load Entity understands and agrees that it must satisfy the applicable interconnection requirements described in the PG&E Transmission Interconnection Handbook (or its successor available on PGE.com) before the Load Entity's Substation can operate in parallel with the PG&E system.

3.2 It is the responsibility of the Load Entity to implement the operating guidelines contained in this Agreement. The Load Entity shall ensure



TRANSMISSION LOAD OPERATING AGREEMENT

that its operating personnel are familiar with the procedures and guidelines in this Agreement.

- 3.3 The GCC is authorized to disconnect the Load Entity from the PG&E electric system if the Load Entity fails to meet the requirements set forth in this Agreement. Prior to PG&E disconnecting the Load Entity, PG&E shall provide written notice to the Load Entity detailing the Load Entity's failure to adhere to such requirements and provide the Load Entity thirty (30) days to correct such deficiency. PG&E reserves the right to immediately disconnect the Load Entity should such deficiencies, as determined by PG&E, cause immediate or imminent hazards to the safety of the Public or PG&E's employees.
- 3.4 The Load Entity understands that the voltage of PG&E's electric transmission system is not regulated and may vary widely. The voltage levels will fluctuate depending on system operation and system conditions. In accordance with the PG&E Transmission Interconnection Handbook, the Load Entity shall install and maintain the necessary equipment to maintain proper power factor and voltage at the point of interconnection.
- 3.5 Power factor correction is the responsibility of the Load Entity. When the Load Entity is receiving power from the PG&E system, metered power factors outside acceptable ranges may result in additional charges, as specified in PG&E's tariffs and operating standards which are consistent with CAISO requirements (loads in CAISO Controlled Grid "shall maintain reactive flow at grid interface points within a specified power factor band of 0.97 lag to 0.99 lead.").
- 3.6 If PG&E provides assistance in the operation or maintenance of the Load Entity's Substation without a written agreement, PG&E assumes no liability for any loss or damage, direct, indirect or consequential, arising from or related to any services PG&E may provide. PG&E reserves the right to charge the Load Entity for all such services.



TRANSMISSION LOAD OPERATING AGREEMENT

4. **OPERATION OF INTERCONNECTION FACILITIES AND SUBSTATION**
- 4.1 The Load Entity shall maintain operating communications with the GCC. The operating communications shall include, but not be limited to, system connection or separation, scheduled and unscheduled shutdowns, and equipment clearances.
- 4.2 All oral operating communications shall be conducted through the GCC. The Load Entity agrees to maintain direct phone service so that PG&E can give instructions to the Load Entity or its designated operator.
- 4.3 The Load Entity agrees to notify the GCC of the following:
- a. The current names and 24-hour phone numbers of the personnel responsible for operating and maintaining the Load Entity's Substation.
 - b. Any Emergency situation, or any request that PG&E de-energize a portion of the system under its control.
 - c. Any changes in the mechanical or electric condition of the Load Entity's Substation that may affect the reliability of the Load Entity's service or the PG&E electric system.
 - d. Immediately upon discovery, any miss operation or inoperable condition of a PG&E-required interconnection relay, circuit breaker, or other protective device.
 - e. Immediately upon discovery, any operation of a PG&E-required interconnection relay, circuit breaker, or other protective device. Relay targets that caused the circuit breaker or protective device to operate.
 - f. Plans to manually connect or separate from the PG&E system and the times of actual manual connections and separations. Emergency separations shall be reported as soon as conditions permit.



TRANSMISSION LOAD OPERATING AGREEMENT

- 4.4 Under normal conditions, the Load Entity shall give as much advance notice as possible (a minimum of 168 hours if connected to 230 kV or 120 hours if connected to 115 kV or below is requested) to the GCC when planning to perform work that may affect PG&E's electric system. At a minimum, the notice shall include:
- a. Nature of the work to be performed.
 - b. Date and time work will begin.
 - c. Date and time work will be completed.
 - d. Apparatus to be cleared and the Clearance Points required.
 - e. Name and telephone number of the person in charge of the work.
 - f. Whether or not protective grounds will be installed.
- 4.5 If the Load Entity wishes to perform work on its own facilities which would normally be energized by PG&E-controlled source(s) of energy, the Load Entity may request that PG&E open, lock and tag PG&E's associated disconnect device to isolate the Load Entity's facilities from PG&E source(s) of energy. PG&E will also establish the disconnect device(s) as an open Clearance Point(s) and install "Man on Line" tags (see PG&E's General Operating Instructions)
- 4.6 PG&E assumes no responsibility for equipment energized by the Load Entity's substation or by any other means. The Load Entity agrees that any work it performs is at its own risk. The Load Entity shall take all necessary steps to ensure that work is conducted in compliance with all applicable federal, state and local laws and regulations and in a manner that does not endanger the safety of persons or equipment.
- 4.7 The Load Entity must open its interconnection disconnect switch if PG&E requests a Clearance Point. A qualified PG&E employee will observe that the switch is open, lock it open with a PG&E lock, and attach a filled-out "Man-on-Line" tag to indicate it is a Clearance Point.
- 4.8 In an Emergency, the Load Entity agrees to expeditiously open the interconnection disconnect switch upon notification from the GCC.



TRANSMISSION LOAD OPERATING AGREEMENT

- 4.9 Under normal conditions, PG&E will give advance notice of plans to perform work, which will affect the Load Entity's access to the PG&E system. PG&E reserves the right to charge the Load Entity the additional cost for work performed during times other than normal business hours (Non-Holidays, Monday through Friday, 8:00 A.M. to 5:00 P.M.) when the schedule of such work is negotiable, as determined by PG&E. PG&E will provide the Load Entity with an estimate of the additional cost and if the Load Entity still desires the work to be performed during non-normal business hours and PG&E does perform the work, PG&E shall charge the Load Entity the actual costs of the work, the amount of which shall not exceed the cost estimate.
- 4.10 Under Emergency conditions, the GCC may without notice and at anytime interrupt service to the Load Entity's Facility if a situation exists which may adversely affect PG&E Electric System Integrity or upon any emergency request that PG&E de-energize a portion of the system under its control.
- 4.11. The Load Entity may be subject to rotating outages unless an Optional Binding Mandatory Curtailment (OBMC) Agreement is in place or they have applied and meet the requirements for Essential Use Customer Status. The Load Entity is responsible for curtailing usage/demand subject to orders from the GCC when rotating outages occur. A specific rotating outage block number will be assigned. The Load Entity has 30 minutes to comply with the GCC rotating outage request or be subject to PG&E Electric Rule 14 noncompliance penalties.
- 4.12. If necessary for the safe and reliable operation of the PG&E electric grid, the Load Entity and PG&E may incorporate herein as an attachment, "Other Operating Instructions."



TRANSMISSION LOAD OPERATING AGREEMENT

5. OTHER COMMUNICATIONS

The facility operator shall notify the GCC of the following:

- 5.1 Any replacement, modification or removal of any interconnection facilities (e.g., transformer, breaker, disconnect, relays, remedial action equipment, etc.).
- 5.2 Results of three-year or four-year bench tests on all PG&E-required relays.
- 5.3 Results of six-year or eight-year tests on interconnection circuit breakers and transformers.
- 5.4 Any relay operations and the targets of the relay that caused the facility to separate, if applicable.
- 5.5 The time of all separations from and reconnections to the PG&E system.
- 5.6 The time of the change in operating status (i.e., opened or closed) of any voltage control device.
- 5.7 Whenever any live line work is being performed and, in addition, whenever such work causes any trouble.

The facility operator shall ensure that any reported time readings are accurate, and maintain their accuracy compared to a reliable time standard.

6. MAINTENANCE OF INTERCONNECTION EQUIPMENT OWNED BY THE LOAD ENTITY

- 6.1 The Load Entity agrees to maintain all PG&E-required Interconnection Facilities' devices in service, with relay settings as recorded on PG&E's "Relay Test Report". Proposed changes in relay settings must be submitted in writing to PG&E for approval. Any modification of the existing interconnection or protection scheme requires PG&E's prior written approval.



TRANSMISSION LOAD OPERATING AGREEMENT

6.2 PG&E required Interconnection Facilities owned by the Load Entity shall be periodically tested and maintained at the manufacturer’s accepted specifications, but at least every four years, by qualified personnel. Copies of equipment test reports shall be forwarded to PG&E for review.

7. EQUIPMENT OWNED BY THE LOAD ENTITY FOR RELIABILITY, OPERABILITY OR PARALLEL OPERATION.

This provision applies where the Load Entity is interconnected to the PG&E transmission system.

In the interest of safety, all customers must notify PG&E before operating ANY generation sources capable of parallel operation, or operating equipment that maintains current reliability or operability of PG&E’s electrical system, which are interconnected to the Load Entity’s substation, the Load Entity’s electrical system, or the PG&E electrical system. The Load Entity agrees to comply with the requirements identified in the PG&E Transmission Interconnection Handbook for all such equipment and generation sources capable of parallel operation with PG&E’s electrical system. Generators that are capable of operating in parallel must be reviewed and approved by PG&E prior to operation, and require a generator interconnect agreement.

Standby Generator (not capable of operating in parallel)

Please check the appropriate line:

- The Load Entity has installed a standby generator.
- The Load Entity does not have and does not plan to install a standby generator.
- Load entity will notify PG&E if there are plans to install a standby generator in the future.



TRANSMISSION LOAD OPERATING AGREEMENT

Line Selector Switches

If the line serving the Load Entity's substation is out of service due to line outages or planned maintenance, then service to the Load Entity may also be interrupted. Please refer to PG&E Electric Rule 14, Shortage of Supply and Interruption of Delivery. Where PG&E or the Load Entity has installed line selector switches for reliability, maintenance or operability they will be operated in compliance with Sections 3 and 4 in this Agreement.

8. REFERENCES

The following reference materials are available for use by the Load Entity and its operating personnel. Copies may be requested from the GCC:

- 8.1 **PG&E Utility Standard: TD-1466P-02--** This document establishes PG&E's responsibilities and operating instructions for personnel involved in the operation, maintenance, and construction of its electric power generation, and transmission systems.
- 8.2 **PG&E Utility Standard: TD-1403S** -- A document describing approved PG&E clearance procedures and instructions for obtaining clearances.
- 8.3 **PG&E Transmission Interconnection Handbook**
- 8.4 **Electric Rules 2, and 14**

9. GENERAL PROVISIONS

- 9.1 Choice of Laws: This Agreement shall be governed by and construed in accordance with the laws of the State of California, excluding any choice of law rules that direct the application of the laws of another jurisdiction.
- 9.2 Modification: This Agreement may be amended or modified only by a written instrument signed by the authorized representatives of both the parties.



TRANSMISSION LOAD OPERATING AGREEMENT

- 9.3 Captions: Captions are included herein for ease of reference only. The captions are not intended to affect the meaning of the contents or scope of this Agreement.
- 9.4 Non-waiver: Failure by either party to enforce any right or obligation with respect to any matter arising in connection with this Agreement shall not constitute a waiver as to that matter or any other matter.
- 9.5 Interpretation: This Agreement is not intended to modify any PG&E or ISO tariff or rule filed with the California Public Utilities Commission or Federal Energy Regulatory Commission. In case of conflict between this Agreement and any PG&E or ISO tariff or rule, the tariff or rule shall govern. This agreement represents the entire understanding between the parties hereto relating to the operation of the Load Entity's substation, and supersedes any and all prior proposals or agreements, whether written or oral, that may exist between the parties. Where there is conflict or inconsistency with the express terms in this Agreement and any documents referenced by this Agreement excluding the above referenced PG&E and ISO tariffs, the terms of this Agreement shall supersede such conflicting terms.
- 9.6 **DISPUTE RESOLUTION: IF A DISPUTE ARISES OUT OF OR RELATING TO THIS AGREEMENT, OR THE BREACH THEREOF, AND IF SAID DISPUTE CANNOT BE SETTLED THROUGH DIRECT DISCUSSIONS, THE PARTIES AGREE TO THE FIRST ENDEAVOR IN GOOD FAITH TO SETTLE THE DISPUTE IN AN AMICABLE MANNER WITHIN THIRTY (30) DAYS OF SUBMISSION TO MEDIATION UNDER THE MEDIATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION BEFORE SEEKING RECOURSE IN A JUDICIAL FORUM. THE MEDIATION SHALL BE INITIATED BY THE WRITTEN REQUEST OF EITHER PARTY AND SHALL BE COMMENCED WITHIN FIFTEEN (15) DAYS OF RECEIPT OF SUCH NOTICE. THE PARTIES SHALL SHARE EQUALLY IN ANY EXPENSES INCURRED AS A RESULT OF THE MEDIATION.**



TRANSMISSION LOAD OPERATING AGREEMENT

10. NAME AND ADDRESS OF KEY PERSONNEL:

The Transmission Load Entity: _____

Phone: _____
 Alternate Phone: _____
 Fax: _____
 Email: _____

Designated PG&E
 GCC: _____

Phone: _____
 Fax: _____

A party may change or supplement the addresses above by written notice to the other party. The Load Entity agrees to keep the GCC informed of any change in its notice address.

11. CPUC AUTHORITY

This Agreement shall at all times be subject to such changes or modifications by the Public Utilities Commission of the State of California as said Commission may, from time to time, direct in the exercise of its jurisdiction.



TRANSMISSION LOAD OPERATING AGREEMENT

12. SIGNATURES

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives, and it is effective as of the last date set forth below.

Customer/Company	PACIFIC GAS AND ELECTRIC COMPANY
Authorized by (Print)	Authorized by (Print)
Signature	Signature
Title	Title
Date	Date



ELECTRIC TABLE OF CONTENTS

Sheet 1

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(Continued)

Advice 6767-E
Decision

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

November 17, 2022



ELECTRIC TABLE OF CONTENTS

Sheet 30

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79-726	Electric Standby Service Log Sheet (Schedule S)	48687-E
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79-1030	Declaration by Mayor or Chief County Administrator Regarding Investigation Pursuit or Implementation of Community Choice Aggregation	48569-E
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(Continued)

Advice 6767-E
Decision

Issued by
Meredith Allen
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

November 17, 2022

Advice 6767-E
November 17, 2022

Attachment 2

Redline Tariff Revisions



TRANSMISSION LOAD OPERATING AGREEMENT

DISTRIBUTION

- XXXX
- XXXX
- XXXX
- XXXX
- _____

REFERENCE

THIS LOAD OPERATING AGREEMENT (the “Agreement”) is effective as of the date last executed by the parties hereto by and between PACIFIC GAS AND ELECTRIC COMPANY (“PG&E”), a California corporation, and _____ (“Load Entity”) a _____. PG&E and the Load Entity are sometimes referred to collectively as the “parties” and individually as the “party.”

RECITALS

A. PG&E and the Load Entity have made arrangements under PG&E’s tariffs for an interconnection and power deliveries between the PG&E Transmission System and the Load Entity’s substation facility with the designated name of, _____, located at _____ (the “Interconnection Facility.”)

B. Among other things, this Load Operating Agreement obligates the Load Entity to operate its Substation in a safe and prudent manner.

C. As part of this obligation, it is important that the Load Entity stay in close contact with PG&E system operators.

D. This Agreement sets up operating responsibilities and associated procedures for communications between the Load Entity and PG&E’s Grid Control Center (GCC). The Agreement also establishes procedures for safe work on electric systems and routine test procedures.

† Information collected on this form is used in accordance with PG&E’s Privacy Policy. The Privacy Policy is available at pge.com/privacy.

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AGREEMENT

THEREFORE, in consideration of the rights and responsibilities set forth herein, the parties agree as follows:

1. DEFINITIONS

When underlined, the following terms shall have the following meanings:

“Clearance Point” -- The points that isolate equipment from possible sources of energy.

“California Independent System Operator (CAISO)” -- The CAISO has operational control over most of the PG&E electric transmission grid operating at voltages of 60 kV and above. The jurisdiction of the CAISO includes control of operations involving customer loads that are directly connected to the CAISO controlled grid as described in the CAISO Tariff and any written agreements between the Load Entity or Transmission Entity and the CAISO. Under the CAISO’s control and instruction, PG&E will continue to serve as the primary point of contact for Load Entities and will communicate and coordinate with the CAISO as specified in CAISO protocols, operating procedures and tariffs.

“Grid Control Center (GCC) Designated PG&E Switching Center” -- The PG&E’s GCC has location identified in Paragraph 9 of this Agreement, with operational jurisdiction over the Load Entity’s Substation. The Designated PG&E Switching CenterGCC is staffed 24 hours a day.

“Emergency” -- An abnormal condition or situation that adversely affects, or potentially may adversely affect, PG&E’s Electric System Integrity.

“Interconnection Facilities” -- All apparatus installed to interconnect and deliver power between the PG&E system and the Load Entity’s substation. Interconnection Facilities include, but are not limited to, connection, transformation, switching, metering, and communications equipment, as



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well as any necessary additions, modifications and reinforcements to the PG&E system necessitated as a result of interconnecting the Load Entity's Facility to the PG&E system. Interconnection Facilities also include control and safety equipment to protect (1) the PG&E system and its customers from faults occurring at the Load Entity's Facility and substation, and (2) the Load Entity's Facility and substation from faults occurring on the PG&E system or on the system of others to which the PG&E system is directly or indirectly connected.



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“Non-Test” -- A procedure used in connection with work on a live line or near an energized circuit. In a Non-Test, PG&E will require that the Load Entity contact the Designated PG&E Switching Center GCC before re-energizing a circuit following an automatic trip.

“PG&E Electric System Integrity” -- The state of operation of PG&E’s electric system in a manner that is deemed to minimize the risk of injury to persons and/or property and enable PG&E to provide adequate and reliable electric service to its customers.

2. TERM OF AGREEMENT

This Agreement shall be binding upon execution by both parties. It shall terminate thirty days after the date on which the Load Entity’s substation facility ceases to be interconnected to the PG&E electric system. This Agreement may also be terminated by mutual written consent of the parties.

3. RESPONSIBILITY AND AUTHORITY

3.1 The Load Entity understands and agrees that it must satisfy the applicable interconnection requirements described in the PG&E Transmission Interconnection Handbook (or its successor available on PGE.com) before the Load Entity’s Substation can operate in parallel with the PG&E system.

3.2 It is the responsibility of the Load Entity to implement the operating guidelines contained in this Agreement. The Load Entity shall ensure that its operating personnel are familiar with the procedures and guidelines in this Agreement.

3.3 The Designated PG&E Switching Center GCC is authorized to disconnect the Load Entity from the PG&E electric system if the Load Entity fails to meet the requirements set forth in this Agreement. Prior to PG&E disconnecting the Load Entity, PG&E shall provide written notice to the Load Entity detailing the Load Entity’s failure to adhere to such



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requirements and provide the Load Entity thirty (30) days to correct such deficiency. PG&E reserves the right to immediately disconnect the Load Entity should such deficiencies, as determined by PG&E, cause immediate or imminent hazards to the safety of the Public or PG&E's employees.

- 3.4 The Load Entity understands that the voltage of PG&E's electric transmission system is not regulated and may vary widely. The voltage levels will fluctuate depending on system operation and system conditions. In accordance with the PG&E Transmission Interconnection Handbook, the Load Entity shall install and maintain the necessary equipment to maintain proper power factor and voltage at the point of interconnection.
- 3.5 Power factor correction is the responsibility of the Load Entity. When the Load Entity is receiving power from the PG&E system, metered power factors outside acceptable ranges may result in additional charges, as specified in PG&E's tariffs and operating standards which are consistent with CAISO requirements (loads in CAISO Controlled Grid "shall maintain reactive flow at grid interface points within a specified power factor band of 0.97 lag to 0.99 lead.").
- 3.6 If PG&E provides assistance in the operation or maintenance of the Load Entity's Substation without a written agreement, PG&E assumes no liability for any loss or damage, direct, indirect or consequential, arising from or related to any services PG&E may provide. PG&E reserves the right to charge the Load Entity for all such services.

4. OPERATION OF INTERCONNECTION FACILITIES AND SUBSTATION

- 4.1 The Load Entity shall maintain operating communications with the Designated PG&E Switching CenterGCC. The operating communications shall include, but not be limited to, system paralleling



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- connection or separation, scheduled and unscheduled shutdowns, and equipment clearances.
- 4.2 All oral operating communications shall be conducted through the Designated PG&E Switching CenterGCC. The Load Entity agrees to maintain direct phone service so that PG&E can give instructions to the Load Entity or its designated operator.
- 4.3 The Load Entity agrees to notify the Designated PG&E Switching CenterGCC of the following:
- a. The current names and 24-hour phone numbers of the personnel responsible for operating and maintaining the Load Entity's Substation.
 - b. Any Emergency situation, or any request that PG&E de-energize a portion of the system under its control.
 - c. Any changes in the mechanical or electric condition of the Load Entity's Substation that may affect the reliability of the Load Entity's service or the PG&E electric system.
 - d. Immediately upon discovery, any miss operation or inoperable condition of a PG&E-required interconnection relay, circuit breaker, or other protective device.
 - e. Immediately upon discovery, any operation of a PG&E-required interconnection relay, circuit breaker, or other protective device. Relay targets that caused the circuit breaker or protective device to operate.
 - f. Plans to manually parallel-connect or separate from the PG&E system and the times of actual manual parallels-connections and separations. Emergency separations shall be reported as soon as conditions permit.
- 4.4 Under normal conditions, the Load Entity shall give as much advance notice as possible (a minimum of 168 hours if connected to 230 kV or 120 hours if connected to 115 kV or below —is requested) to the



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~~Designated PG&E Switching Center~~GCC when planning to perform work that may affect PG&E's electric system. At a minimum, the notice shall include:

- a. Nature of the work to be performed.
- b. Date and time work will begin.
- c. Date and time work will be completed.
- d. Apparatus to be cleared and the Clearance Points required.
- e. Name and telephone number of the person in charge of the work.
- f. Whether or not protective grounds will be installed.

- 4.5 If the Load Entity wishes to perform work on its own facilities which would normally be energized by PG&E-controlled source(s) of energy, the Load Entity may request that PG&E open, lock and tag PG&E's associated disconnect device to isolate the Load Entity's facilities from PG&E source(s) of energy. PG&E will also establish the disconnect device(s) as an open Clearance Point(s) and install "Man on Line" tags (see PG&E's General Operating Instructions)
- 4.6 PG&E assumes no responsibility for equipment energized by the Load Entity's substation or by any other means. The Load Entity agrees that any work it performs is at its own risk. The Load Entity shall take all necessary steps to ensure that work is conducted in compliance with all applicable federal, state and local laws and regulations and in a manner that does not endanger the safety of persons or equipment.
- 4.7 The Load Entity must open its interconnection disconnect switch if PG&E requests a Clearance Point. A qualified PG&E employee will observe that the switch is open, lock it open with a PG&E lock, and attach a filled-out "Man-on-Line" tag to indicate it is a Clearance Point.
- 4.8 In an Emergency, the Load Entity agrees to expeditiously open the interconnection disconnect switch upon notification from the ~~PG&E Designated Switching Center~~GCC.



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- 4.9 Under normal conditions, PG&E will give advance notice of plans to perform work, which will affect the Load Entity's access to the PG&E system. PG&E reserves the right to charge the Load Entity the additional cost for work performed during times other than normal business hours (Non-Holidays, Monday through Friday, 8:00 A.M. to 5:00 P.M.) when the schedule of such work is negotiable, as determined by PG&E. PG&E will provide the Load Entity with an estimate of the additional cost and if the Load Entity still desires the work to be performed during non-normal business hours and PG&E does perform the work, PG&E shall charge the Load Entity the actual costs of the work, the amount of which shall not exceed the cost estimate.
- 4.10 Under Emergency conditions, the Designated PG&E Switching CenterGCC may without notice and at anytime interrupt service to the Load Entity's Facility if a situation exists which may adversely affect PG&E Electric System Integrity or upon any emergency request that PG&E de-energize a portion of the system under its control.
- 4.11. The Load Entity may be subject to rotating outages unless an Optional Binding Mandatory Curtailment (OBMC) Agreement is in place or they have applied and meet the requirements for Essential Use Customer Status. The Load Entity is responsible for curtailing usage/demand subject to orders from the GCC when rotating outages occur. A specific rotating outage block number will be assigned. The Load Entity has 30 minutes to comply with the GCC rotating outage request or be subject to PG&E Electric Rule 14 noncompliance penalties.
- 4.12. If necessary for the safe and reliable operation of the PG&E electric grid, the Load Entity and PG&E may incorporate herein as an attachment, "Other Operating Instructions."

5. OTHER COMMUNICATIONS

The facility operator shall notify the GCC of the following:



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- 5.1 Any replacement, modification or removal of any interconnection facilities (e.g., transformer, breaker, disconnect, relays, remedial action equipment, etc.).
- 5.2 Results of three-year or four-year bench tests on all PG&E-required relays.
- 5.3 Results of six-year or eight-year tests on interconnection circuit breakers and transformers.
- 5.4 Any relay operations and the targets of the relay that caused the facility to separate, if applicable.
- 5.5 The time of all separations from and reconnections to the PG&E system.
- 5.6 The time of the change in operating status (i.e., opened or closed) of any voltage control device.
- 5.7 Whenever any live line work is being performed and, in addition, whenever such work causes any trouble.
- The facility operator shall ensure that any reported time readings are accurate, and maintain their accuracy compared to a reliable time standard.

56. MAINTENANCE OF INTERCONNECTION EQUIPMENT OWNED BY THE LOAD ENTITY

- 56.1 The Load Entity agrees to maintain all PG&E-required Interconnection Facilities' devices in service, with relay settings as recorded on PG&E's "Relay Test Report". Proposed changes in relay settings must be submitted in writing to PG&E for approval. Any modification of the existing interconnection or protection scheme requires PG&E's prior written approval.
- 56.2 PG&E required Interconnection Facilities owned by the Load Entity shall be periodically tested and maintained at the manufacturer's accepted specifications, but at least every four years, by qualified personnel. Copies of equipment test reports shall be forwarded to PG&E for review.



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67. EQUIPMENT OWNED BY THE LOAD ENTITY FOR RELIABILITY, OPERABILITY OR PARALLEL OPERATION.

This provision applies where the Load Entity is interconnected to the PG&E transmission system.

In the interest of safety, all customers must notify PG&E before operating ANY generation sources capable of parallel operation, or operating equipment that maintains current reliability or operability of PG&E’s electrical system, which are interconnected to the Load Entity’s substation, the Load Entity’s electrical system, or the PG&E electrical system. The Load Entity agrees to comply with the requirements identified in the PG&E Transmission Interconnection Handbook for all such equipment and generation sources capable of parallel operation with PG&E’s electrical system. Generators that are capable of operating in parallel must be reviewed and approved by PG&E prior to operation, and require a generator interconnect agreement.

Standby Generator (not capable of operating in parallel)

Please check the appropriate line:

- The Load Entity has installed a standby generator.
- The Load Entity does not have and does not plan to install a standby generator.
- Load entity will notify PG&E if there are plans to install a standby generator in the future. While the Load Entity does not currently have a standby generator installed, it plans to install a standby generator in the future. The Load Entity will notify the Designated PG&E Switching Center before



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~~operating this generator in parallel with the PG&E system.~~

Line Selector Switches

~~Unlike the PG&E electric distribution system, the PG&E transmission system does not have multiple feeds.~~ If the line serving the Load Entity's substation is out of service due to line outages or planned maintenance, then service to the Load Entity may also be interrupted. Please refer to PG&E Electric Rule 14, Shortage of Supply and Interruption of Delivery. Where PG&E or the Load Entity has installed line selector switches for reliability, maintenance or operability they will be operated in compliance with Sections 3 and 4 in this Agreement.



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~~Please check the appropriate line:~~

~~_____ PG&E has installed transmission line selector switches.~~

~~_____ The Load Entity installed transmission line switches.~~

~~_____ The Load Entity has NOT installed transmission line switches, and does not plan on installing line selector switches~~

~~Should PG&E, in the future, determine that transmission line selector switches are required, to be installed on the PG&E transmission system to which the tap serving the Load Entity's facility is connected, in order to maintain current reliability or operability of PG&E's transmission system, the material and installation cost of the switches shall be at PG&E's expense.~~

~~Should PG&E, in the future, determine that the switches are NOT required, and the Load Entity chooses to request the switches to be installed on PG&E's Transmission System, and that such switches would solely benefit the Load Entity's service reliability, ability to restore service or prevent service interruption to the Load Entity, PG&E will install them as a Special Facility.~~

78. REFERENCES

The following reference materials are available for use by the Load Entity and its operating personnel. Copies may be requested from the Designated PG&E Switching Center GCC:

78.1 PG&E Utility Standard: TD-1466P-02 ~~Standard Practice No. S1466--~~

This document establishes PG&E's responsibilities and operating instructions for personnel involved in the operation, maintenance, and construction of its electric power generation, and transmission



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~~systems. A booklet listing all the standard operating orders followed by PG&E system operators.~~

~~78.2 PG&E Utility Standard: TD-1403 Standard Practice No. S1403 --~~

~~A document describing approved PG&E clearance procedures and instructions for obtaining clearances.~~

~~78.3 PG&E Transmission Interconnection Handbook~~

~~78.4 Electric Rules 2, and 14~~

89. GENERAL PROVISIONS

89.1 Choice of Laws: This Agreement shall be governed by and construed in accordance with the laws of the State of California, excluding any choice of law rules that direct the application of the laws of another jurisdiction.

89.2 Modification: This Agreement may be amended or modified only by a written instrument signed by the authorized representatives of both the parties.

89.3 Captions: Captions are included herein for ease of reference only. The captions are not intended to affect the meaning of the contents or scope of this Agreement.

89.4 Non-waiver: Failure by either party to enforce any right or obligation with respect to any matter arising in connection with this Agreement shall not constitute a waiver as to that matter or any other matter.

9.5 Interpretation: This Agreement is not intended to modify any PG&E or ISO tariff or rule filed with the California Public Utilities Commission or Federal Energy Regulatory Commission. In case of conflict between this Agreement and any PG&E or ISO tariff or rule, the tariff or rule shall govern. This agreement represents the entire understanding between the parties hereto relating to the operation of the Load Entity's substation, and supersedes any and all prior proposals or agreements, whether written or oral, that may exist between the parties. Where there is conflict or inconsistency with the express terms in this Agreement and any documents referenced by this Agreement

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excluding the above referenced PG&E and ISO tariffs, the terms of this Agreement shall supersede such conflicting terms.

9.6 DISPUTE RESOLUTION: IF A DISPUTE ARISES OUT OF OR RELATING TO THIS AGREEMENT, OR THE BREACH THEREOF, AND IF SAID DISPUTE CANNOT BE SETTLED THROUGH DIRECT DISCUSSIONS, THE PARTIES AGREE TO THE FIRST ENDEAVOR IN GOOD FAITH TO SETTLE THE DISPUTE IN AN AMICABLE MANNER WITHIN THIRTY (30) DAYS OF SUBMISSION TO MEDIATION UNDER THE MEDIATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION BEFORE SEEKING RECOURSE IN A JUDICIAL FORUM. THE MEDIATION SHALL BE INITIATED BY THE WRITTEN REQUEST OF EITHER PARTY AND SHALL BE COMMENCED WITHIN FIFTEEN (15) DAYS OF RECEIPT OF SUCH NOTICE. THE PARTIES SHALL SHARE EQUALLY IN ANY EXPENSES INCURRED AS A RESULT OF THE MEDIATION.

910. NAME AND ADDRESS OF KEY PERSONNEL:

The Transmission Load Entity: _____

Phone: _____

Alternate Phone: ~~Phone:~~ _____

Fax: _____

Email: _____

Designated PG&E
~~Switching Center~~ **GCC:** _____ ~~Switching Center~~
 (Address)

Phone: _____

Fax: _____

A party may change or supplement the addresses above by written notice to the other party. The Load Entity agrees to keep the ~~Designated PG&E Switching Center~~ **GCC** informed of any change in its notice address.

110. CPUC AUTHORITY



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This Agreement shall at all times be subject to such changes or modifications by the Public Utilities Commission of the State of California as said Commission may, from time to time, direct in the exercise of its jurisdiction.

142. SIGNATURES

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives, and it is effective as of the last date set forth below.

PACIFIC GAS AND ELECTRIC COMPANY

Customer/Company

Authorized by (Print)

Signature

Title

Date

Authorized by (Print)

Signature

Title

Date

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

AT&T
Albion Power Company

Alta Power Group, LLC
Anderson & Poole

Atlas ReFuel
BART

Barkovich & Yap, Inc.
Braun Blaising Smith Wynne, P.C.
California Cotton Ginners & Growers Assn
California Energy Commission

California Hub for Energy Efficiency
Financing

California Alternative Energy and
Advanced Transportation Financing
Authority
California Public Utilities Commission
Calpine

Cameron-Daniel, P.C.
Casner, Steve
Center for Biological Diversity

Chevron Pipeline and Power
City of Palo Alto

City of San Jose
Clean Power Research
Coast Economic Consulting
Commercial Energy
Crossborder Energy
Crown Road Energy, LLC
Davis Wright Tremaine LLP
Day Carter Murphy

Dept of General Services
Don Pickett & Associates, Inc.
Douglass & Liddell
Dish Wireless L.L.C.

East Bay Community Energy Ellison
Schneider & Harris LLP
Engineers and Scientists of California

GenOn Energy, Inc.
Goodin, MacBride, Squeri, Schlotz &
Ritchie

Green Power Institute
Hanna & Morton
ICF

iCommLaw
International Power Technology
Intertie

Intestate Gas Services, Inc.
Kelly Group
Ken Bohn Consulting
Keyes & Fox LLP
Leviton Manufacturing Co., Inc.

Los Angeles County Integrated
Waste Management Task Force
MRW & Associates
Manatt Phelps Phillips
Marin Energy Authority
McClintock IP
McKenzie & Associates

Modesto Irrigation District
NLine Energy, Inc.
NRG Solar

OnGrid Solar
Pacific Gas and Electric Company
Peninsula Clean Energy

Pioneer Community Energy

Public Advocates Office

Redwood Coast Energy Authority
Regulatory & Cogeneration Service, Inc.

Resource Innovations

SCD Energy Solutions
San Diego Gas & Electric Company

SPURR
San Francisco Water Power and Sewer
Sempra Utilities

Sierra Telephone Company, Inc.
Southern California Edison Company
Southern California Gas Company
Spark Energy
Sun Light & Power
Sunshine Design
Stoel Rives LLP

Tecogen, Inc.
TerraVerde Renewable Partners
Tiger Natural Gas, Inc.

TransCanada
Utility Cost Management
Utility Power Solutions
Water and Energy Consulting Wellhead
Electric Company
Western Manufactured Housing
Communities Association (WMA)
Yep Energy