

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



Pacific Gas & Electric Company
ELC (Corp ID 39)
Status of Advice Letter 5645E
As of October 15, 2020

Subject: Request to revise Electric Rule 2, 15 and 16 to align with the provisions of Resolution E-4329.

Division Assigned: Energy

Date Filed: 09-25-2019

Date to Calendar: 09-27-2019

Authorizing Documents: E-4329

Disposition:	Accepted
Effective Date:	10-25-2020

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

KELM@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- Disposition of Filing (Accepted, Rejected, Withdrawn, etc.)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

September 25, 2019

Advice 5645-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

Subject: Request to revise Electric Rule 2, 15 and 16 to align with the provisions of Resolution E-4329

This advice letter is requesting to delete the customer option of installing distribution equipment underground, unless local governing agency requires such installation, similar to what was approved for Southern California Edison (SCE) in Resolution E-4329.

Background

PG&E's existing standard design is to install electrical equipment for distribution systems such as transformers in above ground/pad-mount where technically feasible. Below ground/sub-surface installation have been allowed as special facilities per existing tariff rules when requested by customers and where local governing agency require such installations.

In Advice Letter (AL) 2334-E-A, Southern California Edison (SCE) proposed to delete customer option of installing distribution equipment underground under Tariff Rules 2, 15 and 16. In Resolution E-4329 (April 22, 2010), California Public Utility Commission (CPUC) approved SCE's request for the following¹:

1. New construction on any property except public property and public rights of way;
2. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law; and,
3. Situations on a case by case basis in which the local authority and SCE agree it is necessary to locate Equipment above ground because an underground location is not technically feasible."

¹ Ordering Paragraph 1 of Resolution E-4329

The term Equipment in Resolution E-4329 refers to “equipment such as transformers, switches, capacitors and junction bars” and the term technically feasible is described as “availability of the required physical space, either readily available or through architectural design, that can be set aside to accommodate the required electrical distribution Equipment”.

Similar to SCE, PG&E request to eliminate the option that allow customers to request installation of equipment in underground structures where above-ground installation is technically feasible for cases approved by CPUC in Resolution E-4329.

Underground Verses Pad-Mount

While undergrounding of Equipment may be more aesthetically pleasing, distribution equipment in underground enclosures are difficult to install, operate, maintain and inspect. They are more difficult to locate during equipment failures compared to above ground equipment. Additionally, significant safety precautions are required to access and work in underground enclosures which prolong duration of outages. In contrast, pad-mount equipment are easier to construct, access, maintain and inspect. Abnormal conditions for pad-mount equipment are easier to detect, leading to preventative maintenance and corrective actions sooner than sub-surface equipment. Hence, pad-mount equipment enhance service reliability, enhance safety of employees and the public.

Other California utilities have already revised their standards to pad mounted equipment designs. As stated in Resolution E-4329, San Diego Gas & Electric (SDG&E) and International Brotherhood of Electrical Workers (IBEW) supported pad-mount standard, stating “that the changes would avoid high risk environments where members have experienced lifechanging or fatal injuries from working inside electrical vaults”.

Safety

Employees face greater safety risks when working in underground enclosures compared to above ground. Due to space restrictions, employees are more likely to sustain ergonomics related injuries during construction and operations of subsurface equipment. It would also take more time to evacuate the area if an event occurs while the employee is inside the underground enclosure.

PG&E carefully select location of pad-mount equipment and would not install equipment where it will impact safety, violate Americans with Disabilities Act (ADA) and applicable safety codes such as state building codes, Commission’s General Orders 95 and 128. Vehicular exposure, obstruction of motorist’s vision in intersections and driveways are among various aspects considered when selecting locations of pad mounted equipment. Adequate clearance for safe operation of the equipment and for pedestrian traffic on the sidewalk is provided and maintained.

Environmental Impact

Water accumulation in sub-surface enclosure create mosquito breeding grounds. The water could also get contaminated with other materials. Employees are required to remove the water, test and dispose properly per environmental laws prior to entering the enclosure. However, the contaminated water or mosquitos might impact the public prior to its discovery during inspection of the enclosure.

Reliability

As stated earlier, outage restoration for below ground equipment is longer than above ground due to difficulty of locating and repairing failed equipment. The various work procedures required when entering and/or working on subsurface equipment prolong restoration time as well. Employees are required to scan for hot spots, test for gases, test accumulated water prior to properly disposal, and clear debris from the enclosure before beginning any work. An important benefit of above ground installations is that equipment abnormalities, such as oil leaks are detected sooner. Corrective action resulting from the early detection will reduce unnecessary outages caused by equipment failures or even prevent catastrophic failures.

Grace Period

PG&E will make affective the Rule changes and implement the new standards 30 days after approval of this advice letter. Applications received prior to CPUC approval will be grandfather in using the current standards.

Tariff Revisions

- PG&E proposes to modify Rule 2, Section I, Special Facilities; Rule 15, Section A3, Underground Distribution Line Extensions and Rule 16, Section C3, Underground Installations as follows:
 - PG&E will no longer accept requests for installation of electrical distribution equipment below ground where it is technically feasible to install such equipment above ground. Technically feasible means enough space is available above ground as required by existing design standards, applicable safety codes and regulations such as CPUC General Order 128
 - Requirements will apply to primary voltage from 4kV to 35kV for electrical equipment such as transformers, switches and fuses, capacitors, and junction bars
 - Requests received by PG&E prior to CPUC approval will be grandfathered and not subject to the provisions of this Rule section

- Existing primary voltage distribution equipment installed in below ground structures will continue to be operated and maintained below ground

Revisions to Electric Rule 2, 15 and 16 are provided in Attachment 1. For your convenience, redlined versions of the tariff revisions are included as Attachment 2.

Outreach

On July 30th, 2019, PG&E notified the following organizations regarding this submittal and requested they cascade the communication to their respective membership bases for awareness.

- **League of Cities**
Brandon Black
Program Coordinator, Member Service
bblack@cacities.org
- **California State Association of Counties**
David Liebler
Director of Public Affairs & Member Services
dliabler@counties.org
- **Association of General Contractors**
Kate Mergen
Associate Vice President, Government Affairs
mergenk@agc-ca.org
- **California Building Industry Association**
Michael Gunning
Senior Vice President of Legislative Affairs
mgunning@cbia.org

A sample of the communication is included as Attachment 3.

Protests

Anyone wishing to protest this submittal may do so by letter sent via U.S. mail, facsimile or E-mail, no later than October 15, 2019, 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
c/o Megan Lawson
Pacific Gas and Electric Company
77 Beale Street, Mail Code B13U
P.O. Box 770000
San Francisco, California 94177

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

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

Effective Date

PG&E requests that this Tier 2 advice letter become effective on regular notice, October 25, 2019 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 and via U.S. mail 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 Commission's Process Office at (415) 703-2021 or at Process_Office@cpuc.ca.gov. Send all electronic approvals to PGETariffs@pge.com. Advice letter submittals can also be accessed electronically at: <http://www.pge.com/tariffs/>.

/S/

Erik Jacobson
Director, Regulatory Relations

Attachments

- Attachment 1 – Tariffs
- Attachment 2 – Redline Tariffs
- Attachment 3 – Sample Communications



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 U39E)

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) #:5645-E

Tier Designation: 2

Subject of AL: Request to revise Electric Rule 2, 15 and 16 to align with the provisions of Resolution E-4329

Keywords (choose from CPUC listing): Discretionary

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: Resolution E-4329

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

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

Confidential treatment requested? Yes No

If yes, specification of confidential information: See attached Confidentiality Declaration and Matrix
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: 10/25/19

No. of tariff sheets: 47

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 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:

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
45432-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 2	20094-E
45433-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 3	
45434-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 4	
45435-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 5	15577-E
45436-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 6	27072-E
45437-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 7	41103-E
45438-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 8	17851-E
45439-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 9	30664-E
45440-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 10	27074-E
45441-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 11	15583-E
45442-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 12	20095-E
45443-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 13	21553-E
45444-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 14	21554-E
45445-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 15	21555-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
45446-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 16	15588-E
45447-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 17	17856-E
45448-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 18	30665-E
45449-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 19	15591-E
45450-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 20	27076-E
45451-E	ELECTRIC RULE NO. 15 DISTRIBUTION LINE EXTENSIONS Sheet 21	15593-E
45452-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 6	15597-E
45453-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 7	
45454-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 8	
45455-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 9	15598-E
45456-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 10	16987-E
45457-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 11	15600-E
45458-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 12	15601-E
45459-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 13	15602-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
45460-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 14	15603-E
45461-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 15	15604-E
45462-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 16	15605-E
45463-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 17	15606-E
45464-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 18	15607-E
45465-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 19	15608-E
45466-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 20	14254-E
45467-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 21	13775-E
45468-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 22	15609-E
45469-E	ELECTRIC RULE NO. 16 SERVICE EXTENSIONS Sheet 23	15610-E
45470-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 24	
45471-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 25	
45472-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 26	27771-E
45473-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 27	27772-E

Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
45474-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 28	27773-E
45475-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 29	27774-E
45476-E	ELECTRIC TABLE OF CONTENTS Sheet 1	44679-E
45477-E	ELECTRIC TABLE OF CONTENTS Sheet 18	44219-E
45478-E	ELECTRIC TABLE OF CONTENTS Sheet 19	43887-E



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 2

A. GENERAL (Cont'd.)

3. UNDERGROUND DISTRIBUTION LINE EXTENSIONS

a. UNDERGROUND REQUIRED. Underground Distribution Line Extensions shall be installed where required to comply with applicable laws and ordinances or similar requirements of governmental authorities having jurisdiction and where PG&E maintains or desires to maintain underground distribution facilities. For example, underground Distribution Line Extensions are required for all new: (1) Residential Subdivisions (except as provided for in Section H), (2) Residential Developments, (3) Commercial Developments, (4) Industrial Developments, and (5) locations that are in proximity to and visible from designated Scenic Areas.

b. UNDERGROUND OPTIONAL. When requested by Applicant and agreed upon by PG&E, underground Distribution Line Extensions may be installed in areas where it is not required, as provided in Section A.3.a.

c. Beginning March 1, 2020, PG&E will no longer accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in A.3.c.i, A.3.c.ii, and with certain exceptions A.3.c.iii, below. However, all requests which call for below ground installations that are received by PG&E prior to March 1, 2020 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by PG&E for construction by June 1, 2020 and installed by June 1, 2021.

i. New construction on any property except public property and public rights-of-way;

ii. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;

iii. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

(N)

(N)

(Continued)



**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 3

A. GENERAL (Cont'd.)

(N)

3. UNDERGROUND DISTRIBUTION LINE EXTENSIONS (cont'd)

c. (cont'd)

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

“Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section A.3.c.iii, above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E’s Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E’s Electric Design Manual and similar documents.

(N)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 4

A. GENERAL (Cont'd.)

- 4. OVERHEAD DISTRIBUTION LINE EXTENSIONS. Overhead extensions may be installed only where underground Distribution Line Extensions are not required as provided in Section A.3.a.
- 5. SPECIAL OR ADDED FACILITIES. Any special or added facilities PG&E agrees to install at the request of Applicant will be installed at Applicant's expense in accordance with Rule 2— Description of Service.
- 6. TEMPORARY SERVICE. Facilities installed for temporary service or for operations of speculative character or questionable permanency shall be made in accordance with the fundamental installation and ownership provisions of this rule, except that all charges and refunds shall be made under the provisions of Rule 13—Temporary Service.
- 7. SERVICES. Service facilities connected to the Distribution Lines to serve an Applicant's premises will be installed, owned and maintained as provided in Rule 16—Service Extensions.
- 8. CONVERSIONS OF OVERHEAD TO UNDERGROUND. The replacement of existing overhead Distribution Lines with underground Distribution Lines will be made in accordance with Rule 20—Replacement of Overhead With Underground Electric Facilities.

(L)

(L)

(Continued)



**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 5

A. GENERAL (Cont'd.)

- 9. STREET LIGHTS. Street lights and appurtenant facilities shall be installed in accordance with the service provisions of the applicable street light schedule.
- 10. CONTRACTS. Each Applicant requesting a Distribution Line Extension may be required to execute a written contract(s), prior to PG&E performing its work on the Distribution Line Extension. Such contracts shall be in the form on file with the California Public Utilities Commission (Commission).

B. INSTALLATION RESPONSIBILITIES

1. UNDERGROUND DISTRIBUTION LINE EXTENSIONS

- a. APPLICANT RESPONSIBILITY. In accordance with PG&E's design, specifications, and requirements, Applicant is responsible for:
 - 1) EXCAVATION. All necessary trenching, backfilling, and other digging as required.
 - 2) SUBSTRUCTURES AND CONDUITS. Furnishing, installing, and upon acceptance by PG&E, conveying to PG&E ownership of all necessary installed Substructures and Conduits, including Feeder Conduits and related Substructures required to extend to and within subdivisions and developments.
 - 3) PROTECTIVE STRUCTURES. Furnishing, installing, and upon acceptance by PG&E, conveying to PG&E ownership of all necessary Protective Structures.
- b. PG&E RESPONSIBILITY. PG&E is responsible for furnishing and installing cables, switches, transformers, and other distribution facilities required to complete the Distribution Line Extension.

2. OVERHEAD DISTRIBUTION LINE EXTENSIONS. PG&E is responsible for furnishing and installing all facilities required for the Distribution Pole Line Extension.

(L)

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 6

B. INSTALLATION RESPONSIBILITIES (Cont'd.)

(L)

3. INSTALLATION OPTIONS

- a. **PG&E-PERFORMED WORK.** Where requested by Applicant and mutually agreed upon, PG&E may perform that portion of the new Distribution Line Extension work normally installed by Applicant according to Section B.1.a., provided Applicant pays PG&E its total estimated installed cost.
- b. **APPLICANT-PERFORMED WORK.** Applicant may elect to install that portion of the new Distribution Line Extension normally installed by PG&E, in accordance with PG&E's design and specifications, using qualified contractors. (See Section G, Applicant-Installation Options).

C. DISTRIBUTION LINE EXTENSION ALLOWANCES

- 1. **GENERAL.** PG&E will complete a Distribution Line Extension without charge provided PG&E's total estimated installed costs do not exceed the allowances from permanent, bona-fide loads to be served by the Distribution Line Extension within a reasonable time, as determined by PG&E. The allowance will first be applied to the Residential Service Facilities, in accordance with Rule 16. Any excess allowance will be applied to the Distribution Line Extension to which the Service Extension is connected. The allowance for non-residential applicants will be applied to the combined refundable cost of the Distribution and Service Extensions.
- 2. **BASIS OF ALLOWANCES.** Allowances shall be granted to an Applicant for Permanent Service, or to an Applicant for a subdivision or development under the following conditions:
 - a. PG&E is provided evidence that construction will proceed promptly and financing is adequate, and
 - b. Applicant has submitted evidence of building permit(s) or fully-executed home purchase contract(s) or lease agreement(s), or
 - c. Where there is equivalent evidence of occupancy or electric usage satisfactory to PG&E.

The allowances in Sections C.3 and C.4 are based on a revenue-supported methodology using the following formula:

$$\text{Allowance} = \frac{\text{Net Revenue}}{\text{Cost-of Service Factor}}$$

where the Cost of Service Factor is the annualized utility-financed Cost of Ownership as stated in Electric Rule 2

(L)

(Continued)



**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 7

C. DISTRIBUTION LINE EXTENSION ALLOWANCES (Cont'd.)

(L)

- 3. RESIDENTIAL ALLOWANCES. The allowance for Distribution Line Extensions, Service Extensions, or a combination thereof, for Permanent Residential Service is \$2,154 per meter or residential dwelling unit.
- 4. NON-RESIDENTIAL ALLOWANCES. The allowance for Distribution Line Extensions, Service Extensions, or a combination thereof, for Permanent Non-Residential Service is determined by PG&E using the formula in Section C.2.

Where the Distribution Line Extension will serve a combination of residential and non-residential meters, residential allowances will be added to non-residential allowances.

- 5. SEASONAL, INTERMITTENT, EMERGENCY, AND INSIGNIFICANT LOADS. When an Applicant requests service that requires a Distribution Line Extension to serve loads that are seasonal or intermittent, the allowance for such loads shall be determined using the formula in Section C.2. No allowance will be provided where service is used only for emergency purposes, or for Insignificant Loads.

D. CONTRIBUTIONS OR ADVANCES BY APPLICANT

- 1. GENERAL. Contributions or Advances by an Applicant to PG&E for the installation of a Distribution Line Extension to receive PG&E service consists of such things as cash payments, the value of facilities deeded to PG&E, and the value of Excavation performed by Applicant.
- 2. PROJECT-SPECIFIC COST ESTIMATES. PG&E's total estimated installed cost will be based on a project-specific estimated cost.
- 3. CASH ADVANCE. A cash Advance will be required only if Applicant's excess allowance is less than PG&E's total estimated installed cost to complete a Distribution Line Extension.

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 8

- D. CONTRIBUTIONS OR ADVANCES BY APPLICANT (Cont'd.) (L)
4. TAX. All contributions and advances by Applicant are taxable and shall include an Income Tax Component of Contribution (ITCC) at the rate provided in PG&E's Preliminary Statement. ITCC will be either refundable or non-refundable in accordance with the corresponding contribution.
 5. REFUNDABLE AND NON-REFUNDABLE AMOUNTS. Applicant shall contribute or advance, before the start of PG&E's construction, the following:
 - a. UNDERGROUND REFUNDABLE AMOUNT. Applicant's refundable amount is the portion of the PG&E's total estimated installed cost, including ITCC, to complete the underground Distribution Line Extension (including distribution transformers, and any non-residential service facilities, and excluding Betterments) that exceeds the amount of Distribution Line Extension allowance determined in Section C for:
 - 1) CABLING. The estimated installed cost of any necessary Cabling (including distribution transformers and any non-residential service facilities) installed by PG&E to complete the underground Distribution Line Extension. This includes the cost of conversion of existing single-phase lines to three-phase lines, if required; plus
 - 2) SUBSTRUCTURES. PG&E's estimated value of Substructures installed by Applicant and deeded to PG&E as required.
 - b. OVERHEAD REFUNDABLE AMOUNT. Applicant's refundable amount is the portion of the PG&E's total estimated installed cost, including ITCC, to complete the overhead Distribution Line Extension (including distribution transformers, and any non-residential service facilities, and excluding Betterments) that exceeds the amount of Distribution Line Extension allowance determined in Section C for:
 - 1) POLE LINE. All necessary facilities required for an overhead Distribution Pole Line Extension and, if required, the conversion of existing single-phase lines to three-phase lines; plus
 - 2) TRANSMISSION UNDERBUILDS. PG&E's total estimated installed cost of the underbuild, where all or a portion of an overhead Distribution Line Extension is to be constructed on existing transmission poles of PG&E.
- (L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 9

D. CONTRIBUTIONS OR ADVANCES BY APPLICANT (Cont'd.) (L)

5. REFUNDABLE AND NON-REFUNDABLE AMOUNTS (Cont'd.)

c. NON-REFUNDABLE DISCOUNT OPTION. In lieu of contributing the refundable amount determined in Section D.5.a or D.5.b, Applicant has the option of contributing, on a non-refundable basis, fifty percent (50%) of such refundable amount; plus

d. OTHER NON-REFUNDABLE AMOUNTS. Applicant's non-refundable amount is PG&E's estimated value of Excavation, Conduits, and Protective Structures required by PG&E for the Distribution Line Extension under Section B.1.a.

6. JOINT APPLICANTS. The total contribution or advance from a group of Applicants will be apportioned among the members of the group in such manner as they may mutually agree.

7. PAYMENT ADJUSTMENTS

a. CONTRACT COMPLIANCE. If, after six (6) months following the date PG&E is first ready to serve residential loads for which allowances were granted, one (1) year for non-residential loads, Applicant fails to take service, or fails to use the service contracted for, Applicant shall pay to PG&E an additional contribution or Advance, based on the allowances for the revenue actually generated.

b. EXCESS FACILITIES. If the loads provided by Applicant(s) result in PG&E having installed facilities which are in excess of those needed to serve the actual loads, and PG&E elects to reduce such excess facilities, Applicant shall pay PG&E its estimated total costs to remove, abandon, or replace the excess facilities, less the estimated salvage of any removed facilities.

E. REFUNDS

1. GENERAL. Refunds are based on the allowances and conditions in effect at the time the contract is signed. Residential Allowances: the allowance in excess of that needed for the Residential Service Extension in accordance with Rule 16 will be applied to the Distribution Line Extension to which the Service Extension is connected. Non-Residential Allowances: the allowances for non-residential applicants will be applied to the combined refundable cost of the Distribution and Service Extension.

2. TOTAL REFUNDABLE AMOUNT. The total amount subject to refund is the sum of the refundable amounts made under Section D.5. (L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 10

E. REFUNDS (Cont'd.)

- 3. REFUND PERIOD. The total refundable amount is subject to refund for a period of ten (10) years after the Distribution Line Extension is first ready for service.
- 4. RESIDENTIAL. Refunds will be made on the basis of a new customer's Permanent Load which produces additional revenues to PG&E. The refund will be deducted from the total refundable amount, and the remaining amount subject to refund represents that portion of the Distribution Line Extension cost not supported by revenues. (See Section E.11 for series refunding provisions.)
- 5. NON-RESIDENTIAL. PG&E shall be responsible to review Applicant's actual base annual revenue for the first three years from the date PG&E is first ready to serve. Applicant shall be responsible for notifying PG&E if new, permanent load is added the fourth through tenth year from the date PG&E is first ready to serve. Such review shall determine if additional revenue supports any refunds to Applicant. (See Section E.11 for series refunding provisions.)
- 6. UNSUPPORTED DISTRIBUTION LINE EXTENSION COST. When any portion of a refundable amount has not qualified for a refund at the end of twelve (12) months from the date PG&E is first ready to serve, Applicant will pay to PG&E a monthly Cost of Ownership charge (Electric Rule 2 applicant-financed Cost of Ownership percentage) on the remaining refundable balance. Monthly Cost of Ownership costs are in addition to the refundable amount and will normally be accumulated and deducted from refunds due to Applicant. This provision does not apply to individual residential Applicants.
- 7. REFUND TIMING. Refunds will be made without interest within ninety (90) days after the date of first service to new permanent loads, except that refunds may be accumulated to fifty-dollars (\$50) minimum or the total refundable balance, if less than fifty-dollars (\$50).
- 8. MAXIMUM REFUND. No refund shall be made in excess of the refundable amount nor after a period of ten (10) years from the date PG&E is first ready to serve. Any unrefunded amount remaining at the end of the ten(10)-year period shall become property of PG&E.

(L)

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 11

E. REFUNDS (Cont'd.)

- 9. PREVIOUS RULES. Refundable amounts Contributed or Advanced under conditions of a rule previously in effect will be refunded in accordance with the provisions of such earlier rule.
- 10. JOINT APPLICANTS. When two (2) or more parties make joint Contributions or Advances on the same Distribution Line Extension, refunds will be distributed to these parties in the same proportion as their individual Contributions or Advances bear to the total refundable amount, or as they mutually agree.
- 11. SERIES OF DISTRIBUTION LINE EXTENSIONS. Where there is a series of Distribution Line Extensions, commencing with a Distribution Line Extension having an outstanding amount subject to refund, and each Distribution Line Extension is dependent on the previous Distribution Line Extension as a direct source of supply, a series refund will be made as follows:
 - a. Additional service connections supplied from a Distribution Line Extension on which there is a refundable amount will provide refunds first to the Distribution Line Extension to which they are connected; and
 - b. When the amount subject to refund on a Distribution Line Extension in a series is fully refunded, the excess refundable amount will provide refunds to the Distribution Line Extension having the oldest outstanding amount subject to refund in the series.

(L)

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 12

F. APPLICANT DESIGN OPTION

(L)

1. COMPETITIVE BIDDING. When Applicant selects competitive bidding, the Distribution Line Extension may be designed by Applicant's qualified contractor or sub-contractor, but the design must be in accordance with PG&E's design and construction standards. All applicant design work of gas and electric facilities must be performed by or under the direction of a licensed professional engineer and all design work submitted to PG&E must be certified by an appropriately licensed professional engineer, consistent with the applicable federal, state, and local codes and ordinances. The applicant design option is available to Applicants for new service and is not available for replacement, reinforcement, or relocation of existing systems, where there is no applicant for new line or service extension work. Under this option, the following applies:

- a. Applicant shall notify PG&E, in a manner acceptable to PG&E.
- b. Applicant designs shall conform to all applicable federal, state and local codes and ordinances for utility installations (such as, but not limited to the California Business and Professions Code).
- c. PG&E may require applicant designers to meet its pre-qualification requirements prior to participating in applicant design.

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 13

F. APPLICANT DESIGN OPTION FOR NEW RESIDENTIAL INSTALLATIONS
(Cont'd.)

(L)

1. COMPETITIVE BIDDING (Cont'd.)

- d. Applicant designers shall obtain PG&E's design and construction standards and specifications prior to performing applicant design. PG&E may charge for any of these services.
- e. PG&E will perform one plan check on each applicant design project at no expense to Applicant. All subsequent plan checks will be at Applicant's expense.
- f. For designs performed by a non-utility designer, PG&E will credit Applicant with the amount of PG&E's design bid less appropriate charges such as for plan checking, changes, or revisions.
- g. In the case of Applicant designed projects requiring an advance, PG&E will deduct the design credit from Applicant's advance.
- h. If no advance is required, will reimburse/refund the Applicant for the cost of the design after the Distribution Line Extension is first ready to serve.
- i. PG&E shall perform all project accounting and cost estimating.
- j. The applicant design option for new non-residential installations will be available as an option to Applicants no later than July 1, 2001.

G. APPLICANT INSTALLATION OPTIONS

- 1. COMPETITIVE BIDDING. When Applicant selects competitive bidding, the extension may be installed by Applicant's qualified contractor or sub-contractor in accordance with PG&E's design and specifications. Under this option, the following applies:

(L)

(Continued)



**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 14

G. APPLICANT INSTALLATION OPTIONS (Cont'd.)

(L)

1. COMPETITIVE BIDDING (Cont'd.)

Upon completion of Applicant's installation and acceptance by PG&E, ownership of all such facilities will transfer to PG&E.

- b. Applicant shall provide to PG&E, prior to PG&E preparing the line extension contract, the Applicant's Contract Anticipated Costs subject to refund to perform the work normally provided by PG&E. The Applicant shall submit, on a form provided by PG&E, a statement of such costs. If the Applicant elects not to provide such costs to PG&E, the Applicant shall acknowledge its election on the form and PG&E will use its estimated costs.
- c. Applicant shall pay to PG&E, subject to the refund and allowance provisions of Rules 15 and 16, PG&E's estimated cost of work performed by PG&E for the Distribution Line Extension, including the estimated costs of design, administration, and installation of any additional facilities.
- d. The lower of PG&E's estimated refundable costs, or Applicant's Contract Anticipated Costs, as reported in G.1.b., for the work normally performed by PG&E, shall be subject to the refund and allowance provisions of Rules 15 and 16.
- e. Applicant shall pay to PG&E the estimated cost of PG&E's inspection, which shall be a fixed amount not subject to reconciliation. Such inspection costs may be subject to otherwise available allowances up to the difference between the Applicant's Contract Anticipated Costs as reported in G.1.b. and PG&E's estimated costs for performing the same work, but not to exceed PG&E's estimated costs.
- f. Only duly authorized employees of PG&E are allowed to connect to, disconnect from, or perform any work upon PG&E's facilities.

(L)

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ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 15

- G. APPLICANT INSTALLATION OPTIONS (Cont'd.) (L)
- 2. MINIMUM CONTRACTOR QUALIFICATIONS. Applicant's contractor or subcontractor (QC/S) shall:
 - a. Be licensed in California for the appropriate type of work (electrical and general, etc.).
 - b. Employ workmen properly qualified for specific skills required (Qualified Electrical Worker, Qualified Person, etc.) as defined in State of California High Voltage Safety Orders (Title 8, Chapter 4, Subchapter 5, Group 2).
 - c. Comply with applicable laws (Equal Opportunity Regulations, OSHA, EPA, etc.)
- 3. OTHER CONTRACTOR QUALIFICATIONS. An Applicant for service who intends to employ a QC/S also should consider whether the QC/S:
 - a. Is technically competent.
 - b. Has access to proper equipment.
 - c. Demonstrates financial responsibility commensurate with the scope of the contract.
 - d. Has adequate insurance coverage (worker's compensation, liability, property damage).
 - e. Is able to furnish a surety bond for performance of the contract, if required. (L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 16

H. OVERHEAD DISTRIBUTION LINE EXTENSIONS FOR SUBDIVISIONS OR DEVELOPMENTS (L)

- 1. Overhead extensions may be constructed in Residential Subdivisions or Developments only where either a. or b. below are found to exist:
 - a. The lots within the Residential Subdivision or Development existed as legally described parcels prior to May 5, 1970, and significant overhead lines exist within the subdivision or development.
 - b. The minimum parcel size within the new Residential Subdivision or real estate development, identifiable by a map filed with the local government authority, is three (3) acres and Applicant for the Distribution Line Extension shows that all of the following conditions exist:
 - 1) Local ordinances do not require underground construction.
 - 2) Local ordinances or land use policies do not permit further division of the parcels involved such that parcel sizes less than three (3) acres could be formed.
 - 3) Local ordinances or deed restrictions do not allow more than one single-family dwelling or accommodation on a parcel of less than three (3) acres, or any portion of a parcel of less than three (3) acres.
 - 4) Exceptional circumstances do not exist which, in PG&E's opinion, warrant the installation of underground distribution facilities. Whenever PG&E invokes this provision, the circumstances shall be described promptly in a letter to the Commission, with a copy to Applicant for the Distribution Line Extension.
 - 5) PG&E does not elect to install the Distribution Line Extension underground for its operating convenience. Whenever PG&E elects to install the extension underground for its operating convenience, the extra cost compared with overhead shall be borne by PG&E.

(L)

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ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 17

I. SPECIAL CONDITIONS

(L)

- 1. FACILITY RELOCATION OR REARRANGEMENT. Any relocation or rearrangement of PG&E's existing facilities, at the request of, or to meet the convenience of an Applicant or customer, and agreed upon by PG&E, normally shall be performed by PG&E. Where new facilities can be constructed in a separate location, before abandonment or removal of any existing facilities, and Applicant requests to perform the new construction work, it can be performed under the applicable provisions of Section G, Applicant Installation Options.

In all instances, PG&E shall abandon or remove its existing facilities, at the option of PG&E. Applicant or customer shall be responsible for the costs of all related relocation, rearrangement and removal work.

- 2. PERIODIC REVIEW. PG&E will periodically review the factors it uses to determine its residential allowances, non-refundable discount option percentage rate, and Cost-of-Service Factor stated in this rule. If such review results in a change of more than five percent (5%), PG&E will submit a tariff revision proposal to the Commission for review and approval. Such proposed changes shall be submitted no sooner than six (6) months after the last revision.

Additionally, PG&E shall submit by advice letter proposed tariff revisions, which result from other relevant Commission decisions, to the allowance formula for calculating line and service extension allowances.

- 3. EXCEPTIONAL CASES. When the application of this rule appears impractical or unjust to either party or the ratepayers, PG&E or Applicant may refer the matter to the Commission for a special ruling or for special condition(s), which may be mutually agreed upon.

(L)

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**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 18

J. DEFINITIONS FOR RULE 15

(L)

ADVANCE: Cash payments made to PG&E prior to the initiation of any work done by PG&E which is not covered by allowances.

APPLICANT: A person or agency requesting PG&E to supply electric service.

APPLICANT'S CONTRACT ANTICIPATED COST: The cost estimate provided by the Applicant's contractor to the Applicant for performing the applicable refundable work, as stated on the Statement of Applicant's Contract Anticipated Costs (Form 79-1003), or in the case where the work is performed by the Applicant, the Applicant's own cost estimate on the signed form.

BETTERMENT: Facilities installed by Applicant at the request of PG&E in addition to those required under Section B.1.

CABLING: Conductors (including cable-in-conduit, if used), connectors, switches, as required by PG&E for primary, secondary, and service installations.

COMMERCIAL DEVELOPMENT: Two (2) or more enterprises engaged in trade or the furnishing of services, (e.g., shopping centers, sales enterprises, business offices, professional offices, and educational or governmental complexes) and located on a single parcel or on two (2) or more contiguous parcels of land.

CONDUIT: Ducts, pipes, or tubes of certain metals, plastics or other materials acceptable to PG&E (including pull wires and concrete encasement where required) for the installation and protection of electric wires and cables.

CONTRIBUTION: In-kind services and the value of all property conveyed to PG&E at any time during PG&E's work on an extension which is part of PG&E's total estimated installed cost of its facilities, or cash payments not covered by Applicant's allowances.

COST OF SERVICE FACTOR: The annualized utility-financed Cost of Ownership as stated in monthly format in Rule 2 that includes taxes, return and depreciation and is applied to the Net Revenue to determine PG&E's investment in distribution facilities.

DISTRIBUTION LINE EXTENSION: New distribution facilities of PG&E that is a continuation of, or branch from, the nearest available existing permanent Distribution Line (including any facility rearrangements and relocations necessary to accommodate the extension) to the point of connection of the last service. PG&E's Line Extension includes transmission underbuilds and converting an existing single-phase line to three-phase in order to furnish three-phase service to an Applicant, but excludes transformers, meters and services.

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 19

J. DEFINITIONS FOR RULE 15 (Cont'd.)

(L)

DISTRIBUTION LINES: PG&E's overhead and underground lines which are operated at distribution voltages and which are designed to supply two or more services.

DISTRIBUTION TRENCH FOOTAGE: The total trench footage used for calculating cabling costs. It is determined by adding the total length of all new and existing trench for the installation of underground primary and secondary Distribution Lines designed to supply two (2) or more services (excluding service trench footage under Rule 16).

EXCAVATION: All necessary trenching, backfilling, and other digging as required to install Distribution Line Extension facilities including furnishing of any imported backfill material, and disposal of spoil as required, surface repair and replacement, landscape repair and replacement.

FEEDER CONDUIT: Conduit for such uses as part of a backbone system to provide for future anticipated load growth outside the subdivision involved, to provide for future anticipated load growth in the existing subdivision and the existing subdivisions in close proximity, to balance loads between substations, to interconnect the service to the subdivision with service to subsequent developments outside the subdivision, and to provide the flexibility and versatility of modifying or supplying emergency backup power to the area involved.

FRANCHISE AREA: Public streets, roads, highways and other public ways and places where PG&E has a legal right to occupy under Franchise Agreements with governmental bodies having jurisdiction.

INDUSTRIAL DEVELOPMENT: Two (2) or more enterprises engaged in a process which creates a product or changes material into another form or product and located on a single parcel or on two (2) or more contiguous parcels of land.

INSIGNIFICANT LOADS: Small operating loads such as gate openers, valve controls, clocks, timing devices, fire protection equipment, alarm devices, etc.

INTERMITTENT LOADS: Loads which, in the opinion of PG&E, are subject to discontinuance for a time or at intervals.

(L)

(Continued)



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 20

J. DEFINITIONS FOR RULE 15 (Cont'd.)

(L)

MONTHLY OWNERSHIP CHARGE: Cost of Ownership charges (from Electric Rule 2 customer- financed Cost of Ownership percentage) as a percentage rate applied against the outstanding unrefunded refundable balance after twelve (12) months from the date PG&E is first ready to serve. Serves to recover the cost of operating and maintaining customer-financed facilities that are not fully utilized.

NET REVENUE: That portion of the total rate revenues that supports PG&E's Distribution Line and Service Extension costs and excludes such items as energy, transmission, Competition Transition Charge (CTC), public purpose programs, revenue cycle services revenues, and other revenues that do not support the Distribution Line and Service Extension costs.

NON-RESIDENTIAL ALLOWANCES NET REVENUE MULTIPLIER: This is a revenue-supported factor determined by PG&E that is applied to the net revenues expected from non-residential loads to determine non-residential allowances.

PERMANENT SERVICE: Service which, in the opinion of PG&E, is of a permanent and established character. This may be continuous, intermittent, or seasonal in nature.

POLE LINE: Poles, cross-arms, insulators, conductors, switches, guy-wires, and other related equipment used in the construction of an electric overhead line.

PROTECTIVE STRUCTURES: Fences, retaining walls (in lieu of grading), sound barriers, posts, or barricades and other structures as required by PG&E to protect distribution equipment.

RESIDENTIAL DEVELOPMENT: Five (5) or more dwelling units in two (2) or more buildings located on a single parcel of land.

RESIDENTIAL SUBDIVISION: An area of five (5) or more lots for residential dwelling units which may be identified by filed subdivision plans or an area in which a group of dwellings may be constructed about the same time, either by a builder or several builders working on a coordinated basis.

(L)

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ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 21

J. DEFINITIONS FOR RULE 15 (Cont'd.)

(L)

SCENIC AREAS: An area such as a scenic highway, a state or national park or other area determined by a governmental agency to be of unusual scenic interest to the general public. Scenic highways are officially designated under the California Scenic Highway Program established pursuant to Paragraph 320 of the Public Utilities Code and applicable sections of the Streets and Highway Code. State or national parks or other areas of unusual scenic interest to the general public are determined by the appropriate governmental agency. "In proximity to" shall mean within 1,000 feet from each edge of the right-of-way of designated scenic highways and from the boundaries of designated parks and scenic areas. "Visible from" shall mean that overhead distribution facilities could be seen by motorists or pedestrians traveling along scenic highways or visiting parks or scenic areas.

SEASONAL SERVICE: Electric Service to establishments which are occupied seasonally or intermittently, such as seasonal resorts, cottages, or other part-time establishments.

SUBSTRUCTURES: The surface and subsurface structures which are necessary to contain or support PG&E's electric facilities. This includes, but is not limited to, such things as splice boxes, pull boxes, equipment vaults and enclosures, foundations or pads for surface-mounted equipment.

TRENCHING: See Excavation.

(L)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 7

C. SERVICE LATERAL FACILITIES (Cont'd.)

(N)

3. UNDERGROUND INSTALLATIONS. Underground Service Extensions will be installed:

c. (cont'd)

- i. New construction on any property except public property and public rights-of-way;
- ii. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
- iii. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

“Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section C.3.c.iii., above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

(N)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 8

C. SERVICE LATERAL FACILITIES (Cont'd.)

(N)

3. UNDERGROUND INSTALLATIONS (cont'd)

c. (cont'd)

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E's Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E's Electric Design Manual and similar documents.

(N)

4. OVERHEAD INSTALLATIONS. Overhead Service Extensions are permitted except under the circumstances specified in section C.3.a above.

(L)

5. UNUSUAL SITE CONDITIONS. In cases where Applicant's building is located a considerable distance from the available Distribution Line or where there is an obstruction or other deterrent obstacle or hazard such as plowed land, ditches, or inaccessible security areas between PG&E's Distribution Line and Applicant's building or facility to be served that would prevent PG&E from prudently installing, owning, and maintaining its Service Facilities, PG&E may at its discretion, waive the normal Service Delivery Point location. In such cases, the Service Delivery Point will be at such other location on Applicant's property as may be mutually agreed upon; or, alternatively, the Service Delivery Point may be located at or near Applicant's property line as close as practical to the available Distribution Line.

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 9

D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS

(L)

1. APPLICANT RESPONSIBILITY. In accordance with PG&E's design, specifications, and requirements for the installation of Service Extensions, subject to PG&E's inspection and approval, Applicant is responsible for:

a. SERVICE LATERAL FACILITIES.

- 1) CLEAR ROUTE. Providing (or paying for) a route on any private property that is clear of obstructions which would inhibit the construction of either underground or overhead Service Extensions.
- 2) EXCAVATION. All necessary trenching, backfilling, and other digging as required including permit fees.
- 3) CONDUIT AND SUBSTRUCTURES.
 - a) Furnishing, installing, owning, and maintaining all Conduits (including pull wires) and Substructures on Applicant's Premises.
 - b) Installing (or paying for) any Conduits and Substructures in PG&E's Franchise Area (or rights-of-way, if applicable) as necessary to install the Service Extension.
 - c) Conveying ownership to PG&E upon its acceptance of those Conduits and Substructures not on Applicant's Premises.
- 4) PROTECTIVE STRUCTURES. Furnishing, installing, owning, and maintaining all necessary Protective Structures as specified by PG&E for PG&E's facilities on Applicant's Premises.

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 10

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
1. APPLICANT RESPONSIBILITY (Cont'd.)
- b. APPLICANT'S FACILITY DESIGN AND OPERATION. Applicant shall be solely responsible to plan, design, install, own, maintain, and operate facilities and equipment beyond the Service Delivery Point (except for PG&E-owned metering facilities) in order to properly receive and utilize the type of electric service available from PG&E. Refer to Rule 2 for a description, among other things, of:
- 1) Available service delivery voltages and the technical requirements and conditions to qualify for them,
 - 2) Customer utilization voltages,
 - 3) Load balancing requirements,
 - 4) Requirements for installing electrical protective devices,
 - 5) Loads that may cause service interference to others, and
 - 6) Motor starting limitations.
- c. REQUIRED SERVICE EQUIPMENT. Applicant shall, at its sole liability, risk, and expense, be responsible to furnish, install, own, maintain, inspect, and keep in good and safe condition, all facilities of any kind or character on Applicant's Premises that are not the responsibility of PG&E but are required by PG&E for Applicant to receive service. Such facilities shall include but are not limited to the overhead or underground termination equipment, Conduits, service entrance conductors from the Service Delivery Point to the location of PG&E's metering facilities, connectors, meter sockets, meter and instrument transformer housing, service switches, circuit breakers, fuses, relays, wireways, metered conductors, machinery and apparatus of any kind or character. Detailed information on PG&E's service equipment requirements will be furnished by PG&E. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 11

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
1. APPLICANT RESPONSIBILITY (Cont'd.)
- d. COORDINATION OF ELECTRICAL PROTECTIVE DEVICES. When, as determined by PG&E, Applicant's load is of sufficient size as to require coordination of response time characteristics between Applicant's electrical protective devices (circuit breakers, fuses, relays, etc.) and those of PG&E, it shall be Applicant's responsibility to provide such coordination in accordance with Rule 2.
- e. LIABILITY. PG&E shall incur no liability whatsoever, for any damage, loss or injury occasioned by:
- 1) Applicant-owned equipment or Applicant's transmission and delivery of energy; or,
 - 2) The negligence, omission of proper protective devices, want of proper care, or wrongful act of Applicant, or any agents, employees, or licensees of Applicant, on the part of Applicant in installing, maintaining, using, operating, or interfering with any such conductors, lines, machinery, or apparatus.
- f. FACILITY TAMPERING. Applicant shall provide a suitable means acceptable to PG&E for placing its seals on meter rings and covers of service enclosures and instrument transformer enclosures which protect unmetered energized conductors installed by Applicant. All PG&E-owned meters and enclosure covers will be sealed only by PG&E's authorized employees and such seals shall be broken only by PG&E's authorized employees. However, in an emergency, PG&E may allow a public authority or other appropriate party to break the seal. Any unauthorized tampering with PG&E-owned seals or connection of Applicant-owned facilities to unmetered conductors at any time is prohibited and is subject to the provisions of Rule 11—Discontinuance and Restoration of Service for unauthorized use. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 12

D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)

1. APPLICANT RESPONSIBILITY (Cont'd.)

g. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES.
Transformer installations on Applicant's Premises shall be as specified by PG&E and in accordance with the following applicable provisions:

- 1) SPACE FOR TRANSFORMERS. Applicant shall provide space on Applicant's Premises at a location approved by PG&E for a standard transformer installation including any necessary switches, capacitors, and electric protective equipment where required if (a) in an overhead area, PG&E determines that the load to be served is such that a separate transformer installation, or (b) if PG&E determines that the installation of a padmounted or subsurface transformer of any size is required on Applicant's Premises to serve only Applicant.
- 2) PADMOUNTED EQUIPMENT. In PG&E's standard installation, Applicant shall furnish, install, own, and maintain, at its expense, Substructures and any required Protective Structures as specified by PG&E for the proper installation of the transformer, switches, capacitors, etc. as determined by PG&E.
- 3) SINGLE UTILITY-OWNED CUSTOMER SUBSTATION. When PG&E elects for its operating convenience to supply Applicant from a transmission line and install a PG&E-owned substation on Applicant's Premises, Applicant shall furnish, install, own and maintain at its expense the necessary site improvements as specified by PG&E for the proper installation of the transformer. Such improvements shall include but are not limited to a concrete pad or foundation, grounding system, fences and gates, access road, grading, and paving as required, etc. Detailed information on PG&E's requirements for a single customer substation will be furnished by PG&E.

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 13

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
- 1. APPLICANT RESPONSIBILITY (Cont'd.)
- g. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES (Cont'd.)
- 4) TRANSFORMER ROOM OR VAULT. Where Applicant requests and PG&E approves the installation of the transformer(s) in a vault or room on Applicant's Premises, rather than PG&E's standard padmounted installation,
 - a) The room or vault on Applicant's Premises shall be furnished, installed, owned, and maintained by Applicant and shall meet PG&E's specifications for such things as access, ventilation, drainage, grounding system, etc.
 - b) If space cannot be provided on Applicant's Premises for the installation of a transformer on either a pad or in a room or vault, a vault will be installed at Applicant's expense in the street near the property line. It shall be Applicant's responsibility to install (or pay for) such vault if not restricted by governmental authority having jurisdiction and Applicant shall convey ownership of the vault to PG&E upon its acceptance. The additional facilities shall be treated as special or added facilities under the provisions of Rule 2.
 - c) If PG&E's installed cost for the transformer in the room or vault is more costly than the standard padmounted transformer installation, the additional costs shall be paid by Applicant as special or added facilities. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 14

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
- 1. APPLICANT RESPONSIBILITY (Cont'd.)
- g. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES (Cont'd.)
 - 5) TRANSFORMER LIFTING REQUIREMENTS. Where PG&E has installed or agrees to install, transformers at locations where PG&E cannot use its standard transformer lifting equipment and special lifting facilities are required to install or remove the transformers on Applicant's Premises, Applicant shall, at its expense, (a) furnish, install, own, and maintain permanent lifting facilities and be responsible for lifting the transformer to and from its permanent position, or (b) provide (or pay for) portable lifting facilities acceptable to PG&E for installing or removing the transformers. Rights-of-way and space provisions shall be provided by Applicant such that access and required clearances from adjacent structures can be maintained. PG&E may require a separate contract for transformer lifting requirements.
 - 6) OVERHEAD TRANSFORMERS. In remote areas or in areas not zoned for residential or commercial use or for underground services, padmounted transformers are preferred for installation on Applicant's Premises however, where PG&E determines that it is not practical to install a transformer on a pad, in a room or vault, PG&E may furnish a pole-type structure for an installation not exceeding 500 kVA.
 - h. BUILDING CODE REQUIREMENTS. Any service equipment and other related equipment owned by Applicant, as well as any vault, room, enclosure, or lifting facilities for the installation of transformers shall conform with applicable laws, codes, and ordinances of all governmental authorities having jurisdiction. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 15

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
- 1. APPLICANT RESPONSIBILITY (Cont'd.)
 - i. REASONABLE CARE. Applicant shall exercise reasonable care to prevent PG&E's Service Extensions, other PG&E facilities, and meters owned by PG&E or others, on the Applicant's Premises from being damaged or destroyed, and shall refrain from interfering with PG&E's operation of the facilities and shall notify PG&E of any obvious defect. Applicant may be required to provide and install suitable mechanical protection (barrier posts, etc.) as required by PG&E.
- 2. PG&E RESPONSIBILITY
 - a. SERVICE, METER, AND TRANSFORMER. PG&E will furnish, install, own, and maintain the following Service Facilities as applicable after Applicant meets all requirements to receive service:
 - 1) UNDERGROUND SERVICE. A set of service conductors to supply permanent service from the Distribution Line source to the Service Delivery Point approved by PG&E.
 - 2) RISER MATERIALS. Any necessary pole riser material for connecting underground services to an overhead Distribution Line.
 - 3) OVERHEAD SERVICE. A set of overhead service conductors and support poles to supply permanent service from a Distribution Line source to a suitable support at the Service Delivery Point approved by PG&E. Such support shall be of a type and located such that service wires may be installed in accordance with good engineering practice and in compliance with all applicable laws, ordinances, rules, and regulations including those governing clearances and points of attachment. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 16

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)
- 2. PG&E RESPONSIBILITY (Cont'd.)
- a. SERVICE, METER, AND TRANSFORMER (Cont'd.)
- 4) METERING. When the meter is owned by PG&E, PG&E will be responsible for the necessary instrument transformers where required, test facilities, meters, associated metering equipment, and the metering enclosures when PG&E elects to locate metering equipment at a point that is not accessible to Applicant.
- 5) TRANSFORMER. The transformer where required, including any necessary switches, capacitors, electrical protective equipment, etc. When either a padmounted or overhead transformer is installed on Applicant's Premises, the Service Extension shall include the primary conductors from the connection point at the distribution supply line to the transformer and the secondary conductors, if any, from the transformer to the Service Delivery Point.
- b. SPECIAL CONDUIT INSTALLATIONS. PG&E shall own and maintain service conduits only if: (1) they are located in the same trench with distribution facilities, and (2) when it is necessary to locate Conduits on property other than that owned by Applicant, as determined by PG&E, or as may be required by local authorities.
- c. CABLE-IN-CONDUIT. In those cases where PG&E elects to install its service conductors using pre-assembled cable-in-conduit (CIC), the conduit portion will be considered a part of the conductor installation provided by PG&E.
- d. GOVERNMENT INSPECTION. PG&E will establish electric service to Applicant following notice from the governmental authority having jurisdiction that the Applicant-owned facilities have been installed and inspected in accordance with any applicable laws, codes, ordinances, rules, or regulations, and are safe to energize. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 17

- D. RESPONSIBILITIES FOR NEW SERVICE EXTENSIONS (Cont'd.) (L)

 - 3. INSTALLATION OPTIONS
 - a. PG&E-PERFORMED WORK. Where requested by Applicant and mutually agreed upon, PG&E may perform that portion of the new Service Extension work normally the responsibility of Applicant according to Section D.1 above provided Applicant pays PG&E its estimated installed cost.
 - b. APPLICANT-PERFORMED WORK. Applicant may elect to use competitive bidding to install that portion of the new Service Extensions normally installed and owned by PG&E in accordance with the same provisions outlined in Rule 15.

- E. ALLOWANCES AND PAYMENTS BY APPLICANT
 - 1. RESIDENTIAL ALLOWANCES. The allowance for Distribution Line Extensions, Service Extensions, or a combination thereof, for Permanent Residential Service is determined by PG&E in accordance with the provisions of Rule 15, Section C. The allowance will first be applied to the Service Facilities. Any excess allowance will be applied to the Distribution Line Extension, to which the service is connected in accordance with Rule 15.
 - 2. NON-RESIDENTIAL ALLOWANCES. For non-residential Service Extension Applicants, the value of such items as conductors, service transformers, PG&E-owned metering equipment, (but not including such items as listed in Section D) will be treated in accordance with the allowance and refund provisions of Rule 15.
 - 3. SEASONAL, INTERMITTENT, EMERGENCY, AND INSIGNIFICANT LOADS. When Applicant requests service that requires an extension to serve loads that are seasonal or intermittent, the allowance for such loads shall be determined by using the formula in Section C of Rule 15. No allowance will be provided where service is used only for emergency purposes or for Insignificant Loads.
 - 4. PAYMENTS. Applicant is responsible to pay PG&E the following non-refundable costs as applicable under this rule and in advance of PG&E commencing its work:
 - a. POLE RISER. PG&E's estimated installed costs of any riser materials on its poles.
 - b. EXCESS SERVICE. PG&E's total estimated installed cost (including appurtenant facilities, such as connectors, service conductor, service transformers, metering equipment, and the conduit portion of CIC cable) in excess of the allowance.

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 18

E. ALLOWANCES AND PAYMENTS BY APPLICANT (Cont'd.)

4. PAYMENTS (Cont'd.)

c. TAX. Any payments or contribution of facilities by Applicant are taxable Contributions in Aid of Construction (CIAC) and shall include an Income Tax Component of Contribution (ITCC) for state and federal tax at the rate provided in PG&E's Preliminary Statement.

d. OTHER. PG&E's total estimated installed cost for any work it performs that is Applicant's responsibility or performs for the convenience of Applicant.

5. REFUNDS. No refunds apply to the installation of Residential Service Facilities under this Rule.

F. EXISTING SERVICE FACILITIES

1. SERVICE REINFORCEMENT

a. PG&E-OWNED. When PG&E determines that its existing Service Facilities require replacement, the existing Service Facilities shall be replaced as a new Service Extension under the provisions of this rule.

b. APPLICANT-OWNED. When PG&E determines that existing Applicant-owned service facilities (installed under a prior rule) require replacement, such replacement or reinforcement shall be accomplished under the provisions for a new Service Extension installation, except that if PG&E determines that any portion of Applicant's existing service conductors can be utilized by PG&E, Applicant will convey any such usable part to PG&E and an appropriate credit by PG&E may be allowed to Applicant.

Applicant will replace or reinforce that portion of the Service Extension which Applicant will continue to own, under the provisions of this rule for new services.

(L)

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 19

F. EXISTING SERVICE FACILITIES (Cont'd.)

2. SERVICE RELOCATION OR REARRANGEMENT

- a. PG&E CONVENIENCE. When, in the judgement of PG&E, the relocation or rearrangement of a service, including PG&E-owned transformers, is necessary for the maintenance of adequate service or for the operating convenience of PG&E, PG&E normally will perform such work at its own expense, except as provided Sections F.2.b. and F.5.
- b. APPLICANT CONVENIENCE. Any relocation or rearrangement of PG&E's existing Service Facilities at the request of Applicant (aesthetics, building additions, remodeling, etc.) and agreed upon by PG&E shall be performed in accordance with Section D above except that Applicant shall pay PG&E its total estimated costs.

In all instances, PG&E shall abandon or remove its existing facilities at the option of PG&E rendered idle by the relocation or rearrangement.

3. IMPAIRED ACCESS AND CLEARANCES. Whenever PG&E determines that:

- a. ACCESS. Its existing Service Facilities have become inaccessible for inspecting, operating, maintenance, meter reading, or testing; or,
- b. CLEARANCES. A hazardous condition exists or any of the required clearances between the existing Service Facilities and any object becomes impaired under any applicable laws, ordinances, rules, or regulations of PG&E or public authorities, then the following applies:

(L)

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 20

- F. EXISTING SERVICE FACILITIES (Cont'd.) (L)
- 3. IMPAIRED ACCESS AND CLEARANCES (Cont'd.)
 - c. CORRECTIVE ACTION. Applicant or owner shall, at Applicant's or owner's expense, either correct the access or clearance infractions or pay PG&E its total estimated cost to relocate its facilities to a new location which is acceptable to PG&E. Applicant or owner shall also be responsible for the expense to relocate any equipment which Applicant owns and maintains. Failure to comply with corrective measures within a reasonable time may result in discontinuance of service.
- 4. OVERHEAD TO UNDERGROUND SERVICE CONVERSIONS
 - a. RULE 20. Where an existing overhead Distribution Line is replaced by an underground distribution system in accordance with Rule 20--Replacement of Overhead With Underground Electric Facilities, new underground services will be installed under Rule 16.
 - b. APPLICANT'S CONVENIENCE. Where overhead services are replaced by underground services for Applicant's convenience, Applicant shall perform all Excavation, furnish and install all Substructures, and pay PG&E its total estimated installed cost to complete the new service and remove the overhead facilities.
- 5. DAMAGED FACILITIES. When PG&E's facilities are damaged by others, the repair will be made by PG&E at the expense of the party responsible for the damage. Applicants are responsible for repairing their own facilities. (L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 21

F. EXISTING SERVICE FACILITIES (Cont'd.)

(L)

- 6. SUBDIVISION OF PREMISES. When PG&E's Service Facilities are located on private property and such private property is subsequently subdivided into separate Premises with ownership divested to other than Applicant or customer, the subdivider is required to provide PG&E with adequate rights-of-way satisfactory to PG&E for its existing facilities and to notify property owners of the subdivided Premises of the existence of the rights-of-way.

When adequate rights-of-way are not granted as a result of the property subdivision, PG&E shall have the right, upon written notice to Applicant, to discontinue service without obligation or liability. The existing owner, Applicant, or customer shall pay to PG&E the total estimated cost of any required relocation or removal of PG&E's facilities. A new electric service will be re-established in accordance with the provisions of Section D above for new service and the provisions of any other applicable PG&E rules.

G. EXCEPTIONAL CASES

When the application of this rule appears impractical or unjust to either party, or ratepayers, PG&E or Applicant may refer the matter to the Commission for a special ruling or for approval of special conditions which may be mutually agreed upon.

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 22

H. DEFINITIONS FOR RULE 16

(L)

APPLICANT: A person or agency requesting PG&E to supply electric service.

CONDUIT: Ducts, pipes, or tubes of certain metals, plastics or other materials acceptable to PG&E (including pull wires and concrete encasement where required) for the installation and protection of electric wires and cables.

DISTRIBUTION LINES: PG&E's overhead and underground facilities which are operated at distribution voltages as set forth in PG&E's Rule 2 and which are designed to supply two or more services.

EXCAVATION: All necessary trenching, backfilling, and other digging as required to install Service Extensions including furnishing of any imported backfill material, concrete encasement to protect conduit, and disposal of spoil, as required, surface repair and replacement, landscape repair and replacement.

FRANCHISE AREA: Public streets, roads, highways, and other public ways and places where PG&E has a legal right to occupy under franchise agreements with governmental bodies having jurisdiction.

INSIGNIFICANT LOADS: Small operating loads, such as gate openers, valve controls, clocks, timing devices, fire protection equipment, alarm devices, etc.

INTERMITTENT LOADS: Loads which, in the opinion of PG&E, are subject to discontinuance for a time or at intervals.

(L)

(Continued)



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 23

H. DEFINITIONS FOR RULE 16 (Cont'd.)

(L)

PREMISES: All of the real property and apparatus employed in a single enterprise on an integral parcel of land undivided, excepting in the case of industrial, agricultural, oil field, resort enterprises, and public or quasi-public institutions, by a dedicated street, highway or public thoroughfare or a railway. Automobile parking lots constituting a part of and adjacent to a single enterprise may be separated by an alley from the remainder of the Premises served.

PROTECTIVE STRUCTURES: Fences, retaining walls (in lieu of grading), sound barriers, posts, barricades and other structures as required by PG&E.

SEASONAL SERVICE: Electric service to establishments which are occupied seasonally or intermittently, such as seasonal resorts, cottages, or other part-time establishments.

SERVICE DELIVERY POINT: Where PG&E's Service Facilities are connected to either Applicant's conductors or other service termination facility designated and approved by PG&E.

SERVICE EXTENSIONS: The overhead and underground primary or secondary facilities (including but not limited to PG&E-owned Service Facilities and Applicant-owned service facilities) extending from the point of connection at the Distribution Line to the Service Delivery Point. When an underground Service Extension is supplied from a PG&E-designated overhead pole, the beginning point of connection to PG&E's Distribution Line shall be where the Service Extension is connected to PG&E's overhead Distribution Line conductors.

SUBSTRUCTURES: The surface and subsurface structures which are necessary to contain or support PG&E's electric facilities. This includes, but is not limited to, splice boxes, pull boxes, equipment vaults and enclosures, foundations or pads for surface-mounted equipment.

(L)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 24

I. SPECIAL FACILITIES (Cont'd.)

(N)

4. Beginning March 1, 2020, PG&E will no longer accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in Sections I.4.a, I.4.b, and with certain exceptions I.4.c, below. However, all requests which call for below ground installations that are received by PG&E prior to March 1, 2020 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by PG&E for construction by June 1, 2020 and installed by June 1, 2021.

- a. New construction on any property except public property and public rights-of-way;
- b. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
- c. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

"Technically feasible" means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

(N)

(Continued)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 25

I. SPECIAL FACILITIES (Cont'd.)

(N)

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section I.4.c., above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E's Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E's Electric Design Manual and similar documents.

(N)

(Continued)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 26

J. WELDER SERVICE

(L)

1. RATING OF WELDERS

Electric welders will be rated for billing purposes as follows:

- a. MOTOR-GENERATOR ARC WELDERS – The horsepower rating of the motor driving a motor-generating type arc welder will be taken as the horsepower rating of the welder.
- b. TRANSFORMER ARC WELDERS – Nameplate maximum kVa input (at rated output amperes) will be taken as the rating of transformer type arc welders.
- c. RESISTANCE WELDERS – Resistance welder ratings will be determined by multiplying the welder transformer nameplate rating (at 50 percent duty cycle) by the appropriate factor listed below:

(L)

(Continued)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 27

J. WELDER SERVICE (Cont'd.)

1. RATING OF WELDERS (Cont'd.)

TYPE OF WELDER	TRANSFORMER NAMEPLATE RATING @ 50% Duty Cycle**	FACTOR	
		PG&E- Owned Distrib. Transf.	Customer Owned Distrib. Transf.
1. Rocker Arm, Press or Projection Spot	20 kVa or less	0.60	0.50
2. Rocker Arm, Press Spot Project Spot Flash or Butt Seam or Portable Gun	Over 20 kVa 21 to 75 kVa, inclusive 100 kVa or over All sizes	0.80	0.60
3. Flash or Butt	67 to 100 kVa, inclusive	***	***
4. Projection Spot Flash or Butt	Over 75 kVa 66 kiva or less	1.20	0.90

** The kVa rating of all resistance welders to which these rating procedures are applied must be at or equivalent to 50 percent duty cycle operation. Duty cycle is the percent of the time welding current flows during a given operating cycle. If the operating kVa nameplate rating is for some other operating duty cycle, then the thermally equivalent kVa rating at 50 percent duty cycle must be calculated.

*** Each flash or butt welder in this group will be rated at 80 kVa where distribution transformer is owned by PG&E or 60 kVa where distribution transformer is owned by the customer.

(Continued)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 28

J. WELDER SERVICE (Cont'd.)

(L)

1. RATING OF WELDERS (Cont'd.)

- d. Ratings prescribed by a., b. and c. above, normally will be determined from nameplate data or from data supplied by the manufacturer. If such data are not available or are believed by either PG&E or customer to be unreliable, the rating will be determined by test at the expense of the customer.
- e. If established by seals approved by PG&E, the welder rating may be limited by the sealing of taps which provide capacity greater than the selected tap and/or by the interlocking lockout of one or more welders with other welders.
- f. When conversion of units is required for tariff application, one welder kVa will be taken as one horsepower for tariffs stated on a horsepower basis and one welder kVa will be taken as one kilowatt for tariffs stated on a kilowatt basis.

2. BILLING OF WELDERS

Welders will be billed at the regular rates and conditions of the tariffs on which they are served, subject to the following provisions:

a. CONNECTED LOAD TYPE OF SCHEDULE

Welder load will be included as part of the connected load with ratings as determined under Section 1, above, based on the maximum load that can be connected at any one time, and no allowance will be made for diversity between welders.

(L)

(Continued)



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 29

J. WELDER SERVICE (Cont'd.)

(L)

2. BILLING OF WELDERS (Cont'd.)

b. DEMAND METERED TYPE OF SCHEDULE

Where resistance welders are served on these schedules, the computation of diversified resistance welder load shall be made as follows:

Multiply the individual resistance welder ratings, as prescribed in Sections 1.c. to 1.f. inclusive, above, by the following factors and adding the results thus obtained:

1.0 times the rating of the largest welder

0.8 times the rating of the next largest welder

0.6 times the rating of the next largest welder

0.4 times the rating of the next largest welder

0.2 times the ratings of all additional welders

If this computed, diversified, resistance welder load is greater than the metered demand, the diversified resistance welder load will be used in lieu of the metered demand for rate computation purposes.

3. USE OF WELDERS THROUGH RESIDENTIAL SERVICE

Any welder exceeding three kVa capacity at 50 percent duty cycle supplied through a residential service requires advance approval by PG&E.

(L)



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Advice 5645-E
Decision

Issued by
Robert S. Kenney
Vice President, Regulatory Affairs

Submitted
Effective
Resolution

September 25, 2019
E-4329



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Rule 19	Medical Baseline Quantities	43302,43303,18976-E	
Rule 19.1	California Alternate Rates for Energy for Individual Customers and Submetered Tenants of Master-Metered Customers.....	43015,40218,32656,29291-E	
Rule 19.2	California Alternate Rates for Energy for Nonprofit Group-Living Facilities	35305,36620,40219,33847,32659,43016-E	
Rule 19.3	California Alternate Rates for Energy for Qualified Agricultural Employee Housing Facilities	35307,40220,33849,43017-E	
Rule 20	Replacement of Overhead with Underground Electric Facilities.....	30474,11240,11241,19013,16665,15611,19014-E	

(Continued)

Advice 5645-E
September 25, 2019

Attachment 2

Redline Tariffs



ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE

Sheet 23

I. SPECIAL FACILITIES (Cont'd.)

3. (Cont'd.)

b. (Cont'd.)

TYPE OF FACILITY	FINANCING	MONTHLY CHARGE
Transmission (60kv and over)*	Customer	0.31% of the amount advanced
	PG&E	1.14% of the additional cost
Distribution	Customer	0.53% of the amount advanced
	PG&E	1.22% of the additional cost

- c. Where existing facilities are allocated for applicant's use as special facilities, the applicant shall pay a monthly Cost of Ownership charge. This monthly Cost of Ownership charge shall be based on the estimated installed cost of that portion of the existing facilities which is allocated to the customer.
- d. Where PG&E determines the collection of continuing monthly Cost of Ownership charges is not practicable, the applicant will be required to make an equivalent one-time payment in lieu of the monthly Cost of Ownership charges.
- e. All monthly Cost of Ownership charges shall be reviewed and re-filed with the Commission when changes occur in PG&E's cost of providing such service.

4. Beginning March 1, 2020, PG&E will no longer accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in Sections I.4.a, I.4.b, and with certain exceptions I.4.c, below. However, all requests which call for below ground installations that are received by PG&E prior to March 1, 2020 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by PG&E for construction by June 1, 2020 and installed by June 1, 2021.



**ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE**

Sheet 23

* For the purposes of applying the special transmission facilities charge, special transmission facilities are those facilities in the "100 series" of the standard PG&E system of accounts (FERC Account Nos. 352-359).

I. SPECIAL FACILITIES (Cont'd.)

4. (Cont'd.)

a. New construction on any property except public property and public rights-of-way;

b. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;

c. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

"Technically feasible" means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section I.4.c., above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E's Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility



**ELECTRIC RULE NO. 2
DESCRIPTION OF SERVICE**

Sheet 23

structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

I. SPECIAL FACILITIES (Cont'd.)

4. (Cont'd.)

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E's Electric Design Manual and similar documents.

J. WELDER SERVICE

1. RATING OF WELDERS

Electric welders will be rated for billing purposes as follows:

- a. MOTOR-GENERATOR ARC WELDERS – The horsepower rating of the motor driving a motor-generating type arc welder will be taken as the horsepower rating of the welder.
- b. TRANSFORMER ARC WELDERS – Nameplate maximum kVa input (at rated output amperes) will be taken as the rating of transformer type arc welders.
- c. RESISTANCE WELDERS – Resistance welder ratings will be determined by multiplying the welder transformer nameplate rating (at 50 percent duty cycle) by the appropriate factor listed below:



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 2

A. GENERAL (Cont'd.)

3. UNDERGROUND DISTRIBUTION LINE EXTENSIONS

- a. UNDERGROUND REQUIRED. Underground Distribution Line Extensions shall be installed where required to comply with applicable laws and ordinances or similar requirements of governmental authorities having jurisdiction and where PG&E maintains or desires to maintain underground distribution facilities. For example, underground Distribution Line Extensions are required for all new: (1) Residential Subdivisions (except as provided for in Section H), (2) Residential Developments, (3) Commercial Developments, (4) Industrial Developments, and (5) locations that are in proximity to and visible from designated Scenic Areas.
- b. UNDERGROUND OPTIONAL. When requested by Applicant and agreed upon by PG&E, underground Distribution Line Extensions may be installed in areas where it is not required, as provided in Section A.3.a.
- c. Beginning March 1, 2020, PG&E will no longer accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in A.3.c.i, A.3.c.ii, and with certain exceptions A.3.c.iii, below. However, all requests which call for below ground installations that are received by PG&E prior to March 1, 2020 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by PG&E for construction by June 1, 2020 and installed by June 1, 2021.
 - i. New construction on any property except public property and public rights-of-way;
 - ii. Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;
 - iii. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.



**ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS**

Sheet 2

A. GENERAL (Cont'd.)

3. UNDERGROUND DISTRIBUTION LINE EXTENSIONS (cont'd)

c. (cont'd)

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

“Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section A.3.c.iii, above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E’s Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment, regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E’s Electric Design Manual and similar documents.



ELECTRIC RULE NO. 15
DISTRIBUTION LINE EXTENSIONS

Sheet 2

4. OVERHEAD DISTRIBUTION LINE EXTENSIONS. Overhead extensions may be installed only where underground Distribution Line Extensions are not required as provided in Section A.3.a.
5. SPECIAL OR ADDED FACILITIES. Any special or added facilities PG&E agrees to install at the request of Applicant will be installed at Applicant's expense in accordance with Rule 2— Description of Service.
6. TEMPORARY SERVICE. Facilities installed for temporary service or for operations of speculative character or questionable permanency shall be made in accordance with the fundamental installation and ownership provisions of this rule, except that all charges and refunds shall be made under the provisions of Rule 13—Temporary Service.
7. SERVICES. Service facilities connected to the Distribution Lines to serve an Applicant's premises will be installed, owned and maintained as provided in Rule 16—Service Extensions.
8. CONVERSIONS OF OVERHEAD TO UNDERGROUND. The replacement of existing overhead Distribution Lines with underground Distribution Lines will be made in accordance with Rule 20—Replacement of Overhead With Underground Electric Facilities.



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 6

C. SERVICE LATERAL FACILITIES (Cont'd.)

2. NUMBER OF SERVICE LATERALS (Cont'd.)

- c. ORDINANCE. Where required by ordinance or other applicable law, for such things as fire pumps, fire alarm systems, etc.
- d. OTHER. PG&E may charge for additional services provided under this paragraph, as special or added facilities.

3. UNDERGROUND INSTALLATIONS. Underground Service Extensions will be installed:

- a. UNDERGROUND REQUIRED. Underground Service Extensions (1) shall be installed where required to comply with applicable tariff schedules, laws, ordinances, or similar requirements of governmental authorities having jurisdiction, and (2) may be necessary as determined by PG&E where Applicant's load requires a separate transformer installation of 75 kVa or greater.
- b. UNDERGROUND OPTIONAL. An underground Service Extension may be installed in an area where it is not otherwise required and when requested by Applicant and agreed upon by PG&E.
- c. **Beginning March 1, 2020, PG&E will no longer accept requests under the Special Facilities provision of Rule 2, Section I, for underground distribution systems that call for specified pieces of electrical equipment to be installed in below-ground structures in circumstances where it is technically feasible to install the equipment above ground. Such requests will no longer be accepted for situations indicated in C.3.c.i, C.3.c.ii, and with certain exceptions C.3.c.iii, below. However, all requests which call for below ground installations that are received by PG&E prior to March 1, 2020 will be "grandfathered" and not subject to the provisions of this Rule section. These grandfathered requests must be approved by PG&E for construction by June 1, 2020 and installed by June 1, 2021.**
 - i. **New construction on any property except public property and public rights-of-way;**
 - ii. **Circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities on any property except public property and public rights of way resulting in a change of use or occupancy as defined in state or local law;**



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 6

C. SERVICE LATERAL FACILITIES (Cont'd.)

3. UNDERGROUND INSTALLATIONS (cont'd)

c. (cont'd)

- iii. Except for situations on a case-by-case basis in which the local authority and PG&E agree to locate Equipment above ground because the above-ground location is technically feasible for the installation.

For purposes of this provision, specified pieces of equipment include all primary voltage from 4 kV to 35 kV electrical distribution system equipment (Equipment), including, but not limited to, transformers, switches and fuses, capacitors, and junction bars.

“Technically feasible” means that enough space is, or can be made, available above ground for the electrical distribution Equipment needed for PG&E to serve customers and that other requirements, such as obtaining the required permits, are met. The required space is defined by existing design standards within the operation and maintenance requirements that are in compliance with applicable safety codes and regulations such as CPUC General Order 128.

Where PG&E has existing primary voltage distribution equipment installed in below ground structures, the equipment will continue to be operated and maintained below ground. However, in accordance with Section C.3.c.iii., above, where existing below-ground Equipment must be modified by PG&E, above-ground retrofits shall only occur in circumstances in which capacity upgrades, conversions, and relocations are required due to customer-driven renovations of existing structures or other building activities resulting in a change of use or occupancy as defined in state or local law; or when agreed to by the local authority and PG&E on a case-by-case basis.

Design and installation of any above-ground Equipment shall comply with the typical installations depicted in PG&E’s Electric Design Manual, as well as land use laws, including local ordinances respecting matters of public health, safety and convenience, that are of general applicability to above-ground utility structures regardless of ownership, to the extent the same would not directly or effectively require the Equipment to be located underground.

When modifying existing Equipment installed in the above-ground public rights-of-way, PG&E shall comply with local ordinances respecting matters of public health and safety and convenience, to the extent that the same are of general applicability to other utility and public works structures or equipment,



**ELECTRIC RULE NO. 16
SERVICE EXTENSIONS**

Sheet 6

C. SERVICE LATERAL FACILITIES (Cont'd.)

3. UNDERGROUND INSTALLATIONS (cont'd)

c. (cont'd)

regardless of ownership, installed in the public rights-of-way do not directly or effectively require the Equipment to be located underground, or otherwise conflict with the design standards contained in PG&E's Electric Design Manual and similar documents.

4. OVERHEAD INSTALLATIONS. Overhead Service Extensions are permitted except under the circumstances specified in section C.3.a above.

5. UNUSUAL SITE CONDITIONS. In cases where Applicant's building is located a considerable distance from the available Distribution Line or where there is an obstruction or other deterrent obstacle or hazard such as plowed land, ditches, or inaccessible security areas between PG&E's Distribution Line and Applicant's building or facility to be served that would prevent PG&E from prudently installing, owning, and maintaining its Service Facilities, PG&E may at its discretion, waive the normal Service Delivery Point location. In such cases, the Service Delivery Point will be at such other location on Applicant's property as may be mutually agreed upon; or, alternatively, the Service Delivery Point may be located at or near Applicant's property line as close as practical to the available Distribution Line.

Advice 5645-E
September 25, 2019

Attachment 3

Sample Communications

From: [Redacted]
Sent: Tuesday, July 30, 2019 1:22 PM
To: [Redacted]
Cc: [Redacted]
Subject: Notice to File CPUC Advice Letter; Re: Pad-Mount
Attachments: Advice Letter Padmount_Me too filling (4).pdf

Dear Mr. [Redacted],

I'm writing to inform you of PG&E's intention to ask the California Public Utilities Commission to eliminate the customer option of installing distribution electric equipment underground. This would require the revision of Electric Rules 2,15 and 16 and would align PG&E with rules that have already been approved for Southern California Edison.

As always, safety is our primary reason for making this request. Above-ground distribution electric equipment (also known as pad-mount) is preferable for many reasons, including:

- Employees' safety is enhanced because they are not required to perform multiple tasks in confined spaces;
- In the case of an outage locating faulty equipment is much easier and restoration much faster;
- It allows for easier construction, access, maintenance and inspection.

Our draft Advice Letter is attached and will be filed on August 7th, 2019. We welcome your feedback and that of your members, particularly those in the planning area.

Sincerely,

[Redacted] | Public Affairs
Pacific Gas and Electric Company | 2445 Capitol Street, Suite 210 Fresno, CA 93721
(559)263. 5013 | [Redacted]@pge.com

**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
City of Palo Alto	Marin Energy Authority	Tiger Natural Gas, Inc.
	McKenzie & Associates	
City of San Jose	Modesto Irrigation District	TransCanada
Clean Power Research	Morgan Stanley	Troutman Sanders LLP
Coast Economic Consulting	NLine Energy, Inc.	Utility Cost Management
Commercial Energy	NRG Solar	Utility Power Solutions
County of Tehama - Department of Public Works		Utility Specialists
Crossborder Energy	Office of Ratepayer Advocates	
Crown Road Energy, LLC	OnGrid Solar	Verizon
Davis Wright Tremaine LLP	Pacific Gas and Electric Company	Water and Energy Consulting Wellhead Electric Company
Day Carter Murphy	Peninsula Clean Energy	Western Manufactured Housing Communities Association (WMA)
		Yep Energy
Dept of General Services		
Don Pickett & Associates, Inc.		
Douglass & Liddell		