

January 31, 2000

**ADVICE 2209-G/1963-E**

Public Utilities Commission of the State of California

Pacific Gas and Electric Company (PG&E) hereby submits its proposed changes to the following electric and gas tariff sheets. The affected tariff sheets are listed on the enclosed Attachment I.

The purpose of this filing to is submit modifications to gas Rules 15--*Gas Main Extensions* and 16--*Gas Service Extensions*; electric Rules 15--*Distribution Line Extensions* and 16--*Service Extensions*; and Standard Forms 62-0980—*Distribution and Service Extension Agreement*, 62-0982--*Distribution and Service Extension Agreement – Competitive Bidding*, and 79-716--*General Terms and Conditions for Gas and Electric Extension and Service Construction by Applicant*. Additionally, Standard Forms 62-0981--*Distribution and Service Extension Agreement - Option 1 - Shared Construction* and 62-5653--*Installation Service Option* have been deleted. This filing is made in compliance with Decision (D.) 99-06-079 dated June 24, 1999, in OIR 92-03-050.

D. 99-06-079, among other things, adopts a proposal to delete Option 1, the “unit cost option” from the utilities’ line extension rules and orders PG&E to file proposed changes to line extension rules consistent with this decision. Specifically, Ordering Paragraph 1 of D. 99-06-079 states that the line extension rules shall be modified “to reflect the deletion of Option 1, along with the irrevocable option selection requirement.” Furthermore, in Finding of Fact 1, the Commission defined Option 1 as “construction of Line Extension [which] can only be undertaken by the utility.”

D. 99-06-0779 requires PG&E to eliminate unit costs and Option 1 from its rules. PG&E refers to “unit cost” in Rule 15, and uses “Option 1 installation” in both Rules 15 and 16. Consequently, to eliminate “Option 1” it must change both Rules 15 and 16.

Currently, both Rules 15 and 16 are based on older provisions which divided responsibility between the utility and the applicant for furnishing and installing items versus owning and maintaining those items. Consequently, to eliminate Option 1, PG&E has restructured both rules along the lines of: (1) installer’s tasks, (2) applicant’s ownership and maintenance responsibilities, and (3) PG&E’s installation (e.g. tie in and work on existing facilities), ownership and maintenance responsibilities. None of the changes are

intended to alter the refundable and non-refundable cost aspects of the rules. Attachment II lists the changes PG&E has proposed in detail. The standard forms listed above have been changed or deleted to reflect the proposed changes to the rules.

This filing will not increase any rate or charge, cause the withdrawal of service, or conflict with any rate schedule or rule.

Pursuant to Ordering Paragraph 2, PG&E requests that this filing become effective on **July 1, 2000**.

Anyone wishing to comment to or protest this filing may do so by sending a letter within 20 days of this filing. Protests should be mailed to:

IMC Branch Chief  
Energy Division  
California Public Utilities Commission  
505 Van Ness Avenue, Room 4002  
San Francisco, California 94102  
Facsimile: (415) 703-2200

Copies should also be mailed to the attention of the Director, Energy Division (address above), and Les Guliasi, Regulatory Relations Manager, 77 Beale Street, Mail Code B10C, P.O. Box 770000, San Francisco, California 94177, Facsimile (415) 973-7451. The protest should set forth the grounds upon which it is based and shall be submitted expeditiously. There are no restrictions on who may file a protest.

In accordance with Section III, Paragraph G of General Order 96-A, PG&E is mailing copies of this advice filing to the utilities and interested parties shown on the attached list, and interested parties in OIR 92-03-050. Address change requests should be directed to Nelia Avendano at (415) 973-3529.

Vice President - Regulatory Relations

Attachments



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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.

(T)

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.

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.

(Continued)



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

1. DISTRIBUTION LINE EXTENSION INSTALLATION CHOICES

- a. PG&E-PERFORMED WORK. Applicant may elect upon mutual agreement for PG&E to install all or a portion of the new Distribution Line Extension according to Section B.2.a, provided Applicant pays PG&E its total project-specific estimated installed cost.
- b. APPLICANT-PERFORMED WORK. Applicant may elect to install all or a portion of the new Distribution Line Extension, in accordance with PG&E's design and specifications, using qualified contractors. (See Section G, Applicant Installation.)

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(N)

(N)

(L)

(Continued)



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

B. INSTALLATION (Cont'd.)

- |    |   |     |     |
|----|---|-----|-----|
| 2. | DISTRIBUTION LINE EXTENSION INSTALLATION REQUIREMENTS   | (T) | (L) |
| a. | In accordance with PG&E's design, specifications, and requirements, the Applicant's selected installer shall install and provide:   | (T) | (T) |
| 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.   | (T) |     |
| 4) | DISTRIBUTION FACILITIES. Furnishing and installing cables, switches, transformers, pole lines, and other distribution facilities required to complete the Distribution Line Extension.  | (T) | (L) |
|    |   | (D) |     |

(Continued)



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

(D)

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:

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

(Continued)



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

- 3. RESIDENTIAL ALLOWANCES. The allowance for Distribution Line Extensions, Service Extensions, or a combination thereof, for Permanent Residential Service is \$1,286 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.

(D)

- 2. PROJECT-SPECIFIC COST ESTIMATES. PG&E's total estimated installed cost will be based on a project-specific estimated cost.

(T)

- 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.

(T)

(Continued)



ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

- 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. (T)
- 5. REFUNDABLE AND NON-REFUNDABLE AMOUNTS. Applicant shall contribute or advance, before the start of PG&E's construction, the following: (T)
  - 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.

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

5. REFUNDABLE AND NON-REFUNDABLE AMOUNTS (Cont'd.) (T)

c. NON-REFUNDABLE DISCOUNT OPTION. In lieu of contributing the refundable amount determined in Section D.6.a or D.6.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, 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. (T)

(L)

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

(L)

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. (T)
- 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.6.

(L)

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

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

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

- 1. APPLICANT OBLIGATIONS. When Applicant elects to install the Distribution Line Extension, 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:

(T)  
(T)  
(T)

- a. PG&E's total estimated installed project-specific cost will apply regardless of whom Applicant selects to perform the installation.

(D)  
(T)

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
 (Continued)

G. APPLICANT INSTALLATION OPTIONS (Cont'd.)

1. COMPETITIVE BIDDING (Cont'd.)

- b. Upon acceptance by PG&E, ownership of all such facilities will transfer to PG&E. (T)
- c. Applicant shall pay to PG&E, subject to refund, any PG&E costs associated with the extension, including the estimated costs of design, administration, and installation of any additional facilities and labor necessary to complete the Distribution Line Extension. (T)
- d. PG&E's total estimated installation cost is subject to the refund and allowance provisions of the applicable rule. (T)
- e. Applicant shall pay to PG&E, as a non-refundable amount, the cost of inspection. (T)
- f. Only duly authorized employees of PG&E are allowed to connect to, disconnect from, or perform any work upon PG&E's facilities. (T)

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.

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

I. SPECIAL CONDITIONS

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.

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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.

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ELECTRIC RULE 15—DISTRIBUTION LINE EXTENSIONS  
(Continued)

J. DEFINITIONS FOR RULE 15

**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.

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

**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.

(T)  
(T)

**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 factor as stated in Rule 2 that includes taxes, return and depreciation that 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.

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ELECTRIC RULE 16—SERVICE EXTENSIONS

APPLICABILITY: This rule is applicable to both (1) PG&E Service Facilities\* that extend from PG&E's Distribution Line facilities to the Service Delivery Point, and (2) service related equipment required of Applicant on Applicant's Premises to receive electric service.

A. GENERAL

1. DESIGN. PG&E will be responsible for planning, designing, and engineering its Service Extensions using PG&E's standards for design, materials and construction. Residential Applicants may elect to use the Applicant Design Option provisions in Rule 15 to design that portion of the new Service Extension normally designed by PG&E.
2. SERVICE FACILITIES. PG&E's Service Facilities shall consist of (a) primary or secondary underground or overhead service conductors, (b) poles to support overhead service conductors, (c) service transformers, (d) PG&E-owned metering equipment, and (e) other PG&E-owned service related equipment.
3. OWNERSHIP OF FACILITIES. Service Facilities installed under the provisions of this rule shall be owned, operated, and maintained by PG&E if they are (a) located in the street, road or Franchise Area of PG&E, (b) installed by PG&E under section D.4 below on Applicant's Premises for the purpose of the delivery of electric energy to Applicant, or (c) installed by Applicant under the provisions of this rule, and conveyed to PG&E. (T)
4. PRIVATE LINES. PG&E shall not be required to connect Service Facilities to or serve any Applicant from electric facilities that are not owned, operated, and maintained by PG&E.
5. SPECIAL OR ADDED FACILITIES. Any special or added facilities PG&E installs at the request of Applicant, will be installed at Applicant's expense in accordance with Rule 2—Description of Service.
6. TEMPORARY SERVICE FACILITIES. 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.

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ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

D. INSTALLATION

(T)

This section addresses installation, ownership, maintenance, and other related responsibilities, but does not address payment responsibilities or the application of allowances. (See Section E, Allowances and Payments By Applicants)

(N)

1. SERVICE EXTENSION INSTALLATION CHOICES

- a. PG&E-PERFORMED WORK. Applicant may elect upon mutual agreement for PG&E to install all or a portion of the new Service Extension according to Section D.2 provided Applicant pays PG&E its total project-specific estimated installed cost.
- b. APPLICANT-PERFORMED WORK. Applicant may elect to install all or a portion of the new Service Extension in accordance with PG&E's design and specifications, using qualified contractors. (See Rule 15, Section G, Applicant Installation.)

(N)

(L)

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ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

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|---|-------|
| E. INSTALLATION (Cont'd)  | (T)   |
| 2. INSTALLATION REQUIREMENTS. 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's selected installer shall install and provide for: | (T)   |
|   | (T)   |
|   | (T)   |
|   | (D)   |
|   | ----- |
|   | (D)   |
| a. EXCAVATION. All necessary trenching, backfilling, and other digging as required including permit fees.   | (T)   |
| b. CONDUIT AND SUBSTRUCTURES.   | (T)   |
| 1) All Conduits (including pull wires) and Substructures on Applicant's Premises.   | (T)   |
| 2) Any Conduits and Substructures in PG&E's Franchise Area (or rights-of-way, if applicable) as necessary to install the Service Extension.   | (T)   |
|   | (D)   |
| c. PADMOUNTED EQUIPMENT. Substructures and any required Protective Structures as specified by PG&E for the proper installation of the standard padmounted transformer, switches, capacitors, etc., as determined by PG&E.                             | (N)   |
|   |       |
|   | (N)   |
| d. PROTECTIVE STRUCTURES. All necessary Protective Structures as specified by PG&E for PG&E's facilities on Applicant's Premises.   | (T)   |

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ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

D. INSTALLATION (Cont'd.)

2. INSTALLATION REQUIREMENTS (Cont'd.)

(N)

e. SINGLE UTILITY-OWNED CUSTOMER SUBSTATION. All necessary site improvements as specified by PG&E for the proper installation of the transformer. When PG&E elects for its operating convenience to supply Applicant from a transmission line and use a PG&E-owned substation on Applicant's Premises, 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.

f. SERVICE, METER, AND TRANSFORMER.

- 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) 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.
- 3) 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.

(N)

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ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
  - 3. APPLICANT RESPONSIBILITY. Applicant is responsible for the following: (T)
    - a. 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. (N)
    - b. EXCAVATION. Maintaining the trench and other digging requirements including permit fees.
    - c. CONDUIT AND SUBSTRUCTURES.
      - 1) Owning, and maintaining all Conduits (including pull wires) and Substructures on Applicant's Premises.
      - 2) Conveying ownership to PG&E upon its acceptance of those Conduits and Substructures not on Applicant's Premises.
    - d. 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. (N)
- (L)

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- |    |  |     |     |
|----|--|-----|-----|
| D. | INSTALLATION (Cont'd.)   | (T) | (L) |
| 4. | APPLICANT RESPONSIBILITY (Cont'd.)   | (T) |     |
| e. | 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's 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:   | (T) |     |
|    | 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.   |     |     |
| f. | 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. | (T) | (L) |

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
- 3. APPLICANT RESPONSIBILITY (Cont'd.) (T)
  - g. 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. (T)
  - h. LIABILITY. PG&E shall incur no liability whatsoever, for any damage, loss or injury occasioned by: (T)
    - 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.
  - i. 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. (T)

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
- 3. APPLICANT RESPONSIBILITY (Cont'd.) (T)
  - j. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES. (T)
 

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 is required, 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. (T)
    - 2) PADMOUNTED EQUIPMENT. In PG&E's standard installation, Applicant shall 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. (T)
    - 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 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. (T)

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
- 3. APPLICANT RESPONSIBILITY (Cont'd.) (T)
- J. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES (Cont'd.) (T)
  - 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.

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
- 3. APPLICANT RESPONSIBILITY (Cont'd.) (T)
  - j. TRANSFORMER INSTALLATIONS ON APPLICANT'S PREMISES (Cont'd.) (T)
    - 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 require a pole-type structure for an installation not exceeding 500 kVA. (T)
  - k. 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. (T)

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
 (Continued)

- D. INSTALLATION (Cont'd.) (T)
- 3. APPLICANT RESPONSIBILITY (Cont'd.) (T)
  - 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. (T)
- 4. PG&E RESPONSIBILITY (T)
  - a. SERVICE, METER, AND TRANSFORMER. PG&E will own and maintain the following Service Facilities as applicable after Applicant meets all requirements to receive service: (T)
    - 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. Also install any necessary pole riser material for connecting underground services to an overhead Distribution Line. (T)
    - 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.

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

- D. INSTALLATION (Cont'd.) (T)
- 4. PG&E RESPONSIBILITY (Cont'd.) (T)
  - a. SERVICE, METER, AND TRANSFORMER (Cont'd.)
    - 4) METERING. When the meter is owned by PG&E, PG&E will furnish, install, and 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. (T)  
(T)  
(D)  
|  
(D)
    - 5) 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. (T)
    - 6) CABLE-IN-CONDUIT. In those cases where PG&E elects to utilize 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. (T)
    - 7) 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. (T)

(Continued)



ELECTRIC RULE 16—SERVICE EXTENSIONS  
(Continued)

(D)  
|  
(D)

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)



**Pacific Gas and Electric Company**  
San Francisco, California

Canceling

Revised  
Revised

Cal. P.U.C. Sheet No.  
Cal. P.U.C. Sheet No.

16795-E  
15612-E

PACIFIC GAS AND ELECTRIC COMPANY  
DISTRIBUTION AND SERVICE EXTENSION AGREEMENT  
FORM NO. 62-0980 (REV 1/00)  
(ATTACHED)

(T)

(T)

Advice Letter No. 1963-E  
Decision No. 99-06-079

Issued by  
**DeAnn Hapner**  
Vice President  
Regulatory Relations

Date Filed January 31, 2000  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_



**Pacific Gas and Electric Company**  
San Francisco, California

*Cancelling*

Revised  
Revised

Cal. P.U.C. Sheet No.  
Cal. P.U.C. Sheet No.

16796-E  
15614-E

PACIFIC GAS AND ELECTRIC COMPANY  
DISTRIBUTION AND SERVICE EXTENSION AGREEMENT  
FORM NO. 62-0982 (REV 1/00)  
(ATTACHED)

(T)

(T)

Advice Letter No. 1963-E  
Decision No. 99-06-079

Issued by  
**DeAnn Hapner**  
Vice President  
Regulatory Relations

Date Filed January 31, 2000  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_



**Pacific Gas and Electric Company**  
San Francisco, California

*Cancelling*

Revised  
Revised

Cal. P.U.C. Sheet No.  
Cal. P.U.C. Sheet No.

16797-E  
13664-E

PACIFIC GAS AND ELECTRIC COMPANY  
GENERAL TERMS AND CONDITIONS  
FOR GAS AND ELECTRIC EXTENSION  
AND SERVICE CONSTRUCTION BY APPLICANT  
FORM NO. 79-716 (REV 1/00)  
(ATTACHED)

(T)

(T)

Advice Letter No. 1963-E  
Decision No. 99-06-079

Issued by  
**DeAnn Hapner**  
Vice President  
Regulatory Relations

Date Filed January 31, 2000  
Effective \_\_\_\_\_  
Resolution No. \_\_\_\_\_



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