

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE

SAN FRANCISCO, CA 94102-3298



March 8, 2012

**Advice Letter 4004-E**

Brian K. Cherry  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, CA 94177

**Subject: Electric Rule 2 Load Limitations for Three Phase Service**

Dear Mr. Cherry:

Advice Letter 4004-E is effective March 7, 2012.

Sincerely,

A handwritten signature in cursive script that reads "Edward F. Randolph".

Edward F. Randolph, Director  
Energy Division

February 6, 2012

**Advice 4004-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Electric Rule 2 Load Limitations for Three Phase Service****Purpose**

Pacific Gas and Electric Company (PG&E) hereby seeks approval to modify its Electric Rule 2, Section D.1. a. to expand the availability of single phase service to customers with motors greater than 7.5 horsepower.

**Background**

Electric Rule 2, Section D.1. currently limits the provision of single phase service to end-use equipment "where the size of any single motor does not exceed 7.5 horsepower (10 horsepower at the option of PG&E)".

In recent years, there has been great advancement of motor control and starting current limiting technology. This technology also provides conversion capability that allows a three phase motor to be energized by a single phase service. With these technological advancements, it is now possible for an end-user to operate a three phase motor larger than 10 horsepower from a single phase service, without detriment to electric utility operations and without interference to other customers.

This change will also allow customers to install the larger (three phase) motors without the need for the utility to extend three phase service where it currently provides only single phase service.

**Tariff Revisions**

PG&E proposes to modify its Electric Rule 2 load limitations to permit single phase service to motors larger than 7.5 to 10 horsepower where it can be demonstrated to PG&E's satisfaction that the installation will not interfere with PG&E's operations or its service to other customers. This modification will increase customers' end-use equipment options, and may, in some cases, reduce investment in infrastructure by avoiding costly upgrades of PG&E's distribution facilities from single phase to three phase.

PG&E proposes to expand the availability of single phase service to motors larger than 10 horsepower by changing the existing tariff language from:

#### D. GENERAL LOAD LIMITATIONS

##### 1. SINGLE-PHASE SERVICE

- a. Single-phase service normally will be three-wire, 120/240 volts (or three-wire 120/208 volts at certain locations as now or hereafter established by PG&E) where the size of any single motor does not exceed 7.5 horsepower (10 horsepower at the option of PG&E). For any single-phase service, the maximum demand as determined by PG&E is limited to the capability of a 100 kVa transformer unless otherwise approved by PG&E. If the load requires a transformer installation in excess of 100 kVa, the service normally will be three-phase.”

to:

#### D. GENERAL LOAD LIMITATIONS

##### 1. SINGLE-PHASE SERVICE

- a. Single-phase service normally will be three-wire, 120/240 volts (or three-wire 120/208 volts at certain locations as now or hereafter established by PG&E) where the size of any single motor does not exceed 7.5 horsepower (larger horsepower motors may be permitted at the option of PG&E). For any single-phase service, the maximum demand as determined by PG&E is limited to the capability of a 100 kVa transformer unless otherwise approved by PG&E. If the load requires a transformer installation in excess of 100 kVa, the service normally will be three-phase.

### **Protests**

Anyone wishing to protest this filing may do so by letter sent via U.S. mail, by facsimile or electronically, any of which must be received no later than **February 27, 2012**, which is 21 days after the date of this filing<sup>1</sup>. Protests should be mailed to:

CPUC Energy Division  
Tariff Files, Room 4005  
DMS Branch  
505 Van Ness Avenue  
San Francisco, California 94102

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<sup>1</sup> The 20 day protest period concludes on a weekend. PG&E hereby moves this date to the following regular business day.

Facsimile: (415) 703-2200  
E-mail: jnj@cpuc.ca.gov and mas@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 also should be sent via U.S. mail (and by facsimile and electronically, if possible) to PG&E at the address shown below on the same date it is mailed or delivered to the Commission:

Brian K. Cherry  
Vice President, Regulation and Rates  
Pacific Gas and Electric Company  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-6520  
E-mail: PGETariffs@pge.com

### **Effective Date**

PG&E requests that this advice filing become effective on regular notice, **March 7, 2012**, which is 30 calendar days after the date of filing. This Advice Letter is submitted as a Tier 2 filing.

### **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 filings can also be accessed electronically at: <http://www.pge.com/tariffs>.



Vice President, Regulation and Rates

Attachments

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

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

Company name/CPUC Utility No. **Pacific Gas and Electric Company (ID U39 E)**

Utility type:

ELC       GAS  
 PLC       HEAT       WATER

Contact Person: Kimberly Chang

Phone #: (415) 973-5472

E-mail: kwcc@pge.com

EXPLANATION OF UTILITY TYPE

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

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **4004-E**

Tier: **2**

Subject of AL: **Electric Rule 2 Load Limitations for Three Phase Service**

Keywords (choose from CPUC listing): Connection, Rules

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

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

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<sup>1</sup>: \_\_\_\_\_

Is AL requesting confidential treatment? If so, what information is the utility seeking confidential treatment for:

Confidential information will be made available to those who have executed a nondisclosure agreement:  Yes  No

Name(s) and contact information of the person(s) who will provide the nondisclosure agreement and access to the confidential information: \_\_\_\_\_

Resolution Required?  Yes  No

Requested effective date: **March 7, 2012**

No. of tariff sheets: **3**

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

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

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

Tariff schedules affected: Electric Rule 2 – Description of Service

Service affected and changes proposed<sup>1</sup>: Expand availability of single-phase service to motors greater than 7.5 horsepower.

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

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

**CPUC, Energy Division**

**Tariff Files, Room 4005**

**DMS Branch**

**505 Van Ness Ave.,**

**San Francisco, CA 94102**

**jnj@cpuc.ca.gov and mas@cpuc.ca.gov**

**Pacific Gas and Electric Company**

**Attn: Brian Cherry**

**Vice President, Regulation and Rates**

**77 Beale Street, Mail Code B10C**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: PGETariffs@pge.com**

**ATTACHMENT 1  
Advice 4004-E**

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

**Title of Sheet**

**Cancelling Cal  
P.U.C. Sheet No.**

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31319-E	ELECTRIC RULE NO. 2 DESCRIPTION OF SERVICE Sheet 8	27763-E
31320-E	ELECTRIC TABLE OF CONTENTS Sheet 1	31315-E
31321-E	ELECTRIC TABLE OF CONTENTS RULES Sheet 18	30677-E



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

Sheet 8

D. GENERAL LOAD LIMITATIONS

1. SINGLE-PHASE SERVICE

- a. Single-phase service normally will be three-wire, 120/240 volts (or three-wire 120/208 volts at certain locations as now or hereafter established by PG&E) where the size of any single motor does not exceed 7.5 horsepower (larger motors may be permitted at the option of PG&E). For any single-phase service, the maximum demand as determined by PG&E is limited to the capability of a 100 kVa transformer unless otherwise approved by PG&E. If the load requires a transformer installation in excess of 100 kVa, the service normally will be three-phase. (T)  
(T)
- b. In locations where PG&E maintains a 120/208 volt secondary system, 3-wire single-phase service normally shall be limited to that which can be supplied by a main switch or service entrance rating of 200 amperes. Single-phase loads in these locations in excess of that which can be supplied by a 200 ampere main switch or service entrance rating normally will be supplied with a 208Y/120-volt, three-phase, 4-wire service.

(Continued)



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Sheet 1

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<b>SCHEDULE</b>	<b>TITLE OF SHEET</b>	<b>CAL P.U.C. SHEET NO.</b>	
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	Preliminary Statements .....	31138,29900,30376,30844,31139,30846,31316-E	
	Rules .....	<b>31321</b> , 30473, 31153-E	(T)
	Maps, Contracts and Deviations.....	29909-E	
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**RULES**

Sheet 18

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Rule 10	Disputed Bills.....	11308,11309,11310-E

(Continued)

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

AT&T	Department of Water Resources	North America Power Partners
Alcantar & Kahl LLP	Dept of General Services	North Coast SolarResources
Ameresco	Douglass & Liddell	Northern California Power Association
Anderson & Poole	Downey & Brand	Occidental Energy Marketing, Inc.
BART	Duke Energy	OnGrid Solar
Barkovich & Yap, Inc.	Economic Sciences Corporation	Praxair
Bartle Wells Associates	Ellison Schneider & Harris LLP	R. W. Beck & Associates
Bloomberg	Foster Farms	RCS, Inc.
Bloomberg New Energy Finance	G. A. Krause & Assoc.	Recurrent Energy
Boston Properties	GLJ Publications	SCD Energy Solutions
Braun Blaising McLaughlin, P.C.	GenOn Energy, Inc.	SCE
Brookfield Renewable Power	Goodin, MacBride, Squeri, Schlotz & Ritchie	SMUD
CA Bldg Industry Association	Green Power Institute	SPURR
CLECA Law Office	Hanna & Morton	San Francisco Public Utilities Commission
CSC Energy Services	Hitachi	Seattle City Light
California Cotton Ginners & Growers Assn	In House Energy	Sempra Utilities
California Energy Commission	International Power Technology	Sierra Pacific Power Company
California League of Food Processors	Intestate Gas Services, Inc.	Silicon Valley Power
California Public Utilities Commission	Lawrence Berkeley National Lab	Silo Energy LLC
Calpine	Los Angeles Dept of Water & Power	Southern California Edison Company
Cardinal Cogen	Luce, Forward, Hamilton & Scripps LLP	Spark Energy, L.P.
Casner, Steve	MAC Lighting Consulting	Sun Light & Power
Center for Biological Diversity	MBMC, Inc.	Sunshine Design
Chris, King	MRW & Associates	Sutherland, Asbill & Brennan
City of Palo Alto	Manatt Phelps Phillips	Tabors Caramanis & Associates
City of Palo Alto Utilities	McKenzie & Associates	Tecogen, Inc.
City of San Jose	Merced Irrigation District	Tiger Natural Gas, Inc.
City of Santa Rosa	Modesto Irrigation District	TransCanada
Clean Energy Fuels	Morgan Stanley	Turlock Irrigation District
Coast Economic Consulting	Morrison & Foerster	United Cogen
Commercial Energy	Morrison & Foerster LLP	Utility Cost Management
Consumer Federation of California	NLine Energy, Inc.	Utility Specialists
Crossborder Energy	NRG West	Verizon
Davis Wright Tremaine LLP	NaturEner	Wellhead Electric Company
Day Carter Murphy	Navigant Consulting	Western Manufactured Housing Communities Association (WMA)
Defense Energy Support Center	Norris & Wong Associates	eMeter Corporation