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Fax: 415.973-6520

June 17, 2011

Advice 3864-E

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California (CPUC)

Subject: Establishment of an Interim Interconnection Procedure for Rule 21

Qualifying Facilities Signing New PURPA Power Purchase

Agreements With PG&E

Purpose

Pacific Gas and Electric Company ("PG&E") hereby submits for filing revisions to its Electric Tariff Rule 21 ("Rule 21"). PG&E's proposed revisions and the affected tariff sheets are included in Attachment 1.

Request for Authorization

This advice letter addresses the anticipated need for an updated interconnection procedure once the Qualifying Facility and Combined Heat and Power Settlement ("QF/CHP Settlement") approved in Decision ("D.") 10-12-035 and/or the Assembly Bill ("AB") 1613 program (AB 1613 Program) become effective. Changes to these procedures will be necessary to ensure timely, cost-effective, and transparent interconnection rules going forward. The current Rule 21 does not adequately address key requirements for interconnecting a Qualifying Facility ("QF") set up in accordance with the Public Utility Regulatory Policies Act ("PURPA"), with all its export output sold to PG&E under a PURPA power purchase agreement ("PURPA QF interconnections"). For the reasons summarized below, PG&E is hereby asking the Commission to exercise its jurisdiction and require that any new PURPA QF interconnections use the existing California Independent System Operator ("CAISO") or Wholesale Distribution Tariff ("WDT") interconnection procedures on an interim basis. This proposal is not intended to call into question the CPUC's jurisdiction over PURPA QF interconnections. Instead, as described in more detail below, interim use of the CAISO and WDT

Advice 3696-E-A, "Establishment of Standard Contracts and Tariffs for Purchase of Excess Electricity From Eligible Small Combined Heat and Power Facilities," was submitted to the Commission on January 31, 2011.

processes and rules would allow the interconnection process to proceed efficiently for new QF PURPA procurement programs. It would also give the Commission the time needed to investigate the best interconnection procedures for these generators, either through an updated Rule 21, continued use of the CAISO/WDT processes, or a hybrid approach.

Background

Over fifteen years have passed since PG&E last entered into any new PURPA QF interconnection agreements under Rule 21. During that time, there have been a number of important changes in the requirements for Generating Facility interconnection and grid management.

First, significant market changes have occurred as a result of the CAISO assuming operational control of the California grid and responsibility for generator interconnections to the transmission system. The CAISO and the investor-owned utilities ("IOUs") have implemented, and the Federal Energy Regulatory Commission ("FERC") has approved, a number of key changes in the management and coordination of the interconnection queues at both distribution and transmission levels. Rule 21 does not appropriately provide for coordination among PG&E, the CAISO or any other affected transmission or distribution systems. PG&E expects that some QFs will interconnect at the transmission level² and clear rules for how coordination among these parties and their respective interconnection processes do not exist under Rule 21.

Second, the CAISO procedures address certification for Resource Adequacy credit for eligible QFs. Rule 21 has no provisions to obtain the CAISO Deliverability Studies that are an essential component to qualify for Resource Adequacy.

Third, Commission-approved interconnection forms and agreements now available under Rule 21 cover only non-export interconnections³ and retail net metering projects. There are currently no forms designed for the interconnection of projects making PURPA QF sales to PG&E. When PURPA QFs last interconnected in the 1990s, a more generic Rule 21 was generally incorporated into the individual PURPA QF PPAs. Now Rule 21 incorporates stand-alone, *pro forma* interconnection agreements targeted for specific types of interconnections such as non-export or various types of net metering. There is currently no Commission-approved *pro forma* interconnection

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² PURPA QFs up to 20 megawatts ("MW") are anticipated to include distribution and transmission interconnections, particularly in PG&E's service territory where transmission level voltage is generally above 60 kilovolt ("kV"). PG&E's voltage level demarcation between distribution and transmission is significantly lower than that for Southern California Edison. As a consequence, larger PURPA QFs that interconnect with PG&E will likely be at transmission levels whereas for SCE they will more likely be at distribution levels. Over the last fifteen years, however, the Rule 21 language has evolved significantly, but its evolution has been focused on distribution interconnections primarily designed to serve onsite load – not the more export focused transmission and distribution level interconnections that PG&E expects to see as new PURPA QF generators come on line.

³ PG&E has forms to accommodate uncompensated inadvertent export for certain smaller generators.

agreement for use with PURPA QFs that can present a wider range of operating conditions and larger impact on the grid.

Proposed Interim Proposal

To address the advent of the CAISO, the need for deliverability studies, coordination with the existing interconnection queues at both transmission and distribution and the need for Commission-approved forms, Rule 21 would need to be significantly amended to accommodate new PURPA QFs. For this reason, PG&E is asking for Commission approval to use FERC-approved CAISO and WDT interconnection rules, procedures and forms for PURPA QFs on an interim basis.

This interim approval will allow interconnections to proceed while stakeholders conduct a more thorough review of long-term options and revisions for Rule 21. In the past the Commission has utilized a "Rule 21 Working Group" to develop uniform statewide revisions to Rule 21. While PG&E had hoped for guidance from the Rule 21 Working Group on PURPA QF interconnections, this group only recently reconvened on April 29, 2011,⁴ after a three-year hiatus, as a part of Rulemaking ("R.")10-05-004. PG&E is optimistic that long-term solutions regarding QF interconnections will result from the Rule 21 Working Group, and we are looking forward to seeing the new agenda topics, priorities and schedules. One of the strengths of the working group approach is that it is a transparent process that includes representatives from the regulatory community, industry and the utilities. However, complex issues take time to resolve, so all stakeholders should anticipate that the working group would need sufficient time to work through the many Rule 21 changes required to support PURPA QF interconnections.

Finally, interim use of the FERC-approved CAISO and WDT interconnection procedures available through the CAISO tariff for transmission and PG&E's wholesale distribution tariff for distribution has several advantages. The CAISO and WDT procedures are well established and will be familiar to many applicants, have been vetted by stakeholders including the generation community and, most importantly, will ensure a level of consistency between the interconnection procedures for PURPA QFs and other wholesale generators.⁵

For these reasons, PG&E requests Commission approval to allow PG&E to use the CAISO and WDT procedures, rules and applications for all new PURPA QFs for an interim period. Accordingly, this Advice Letter modifies PG&E's Electric Rule 21 by including language directing PG&E to use the applicable currently effective CAISO or

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⁴ After 7 years of sponsoring Rule 21 Working Group meetings, the California Energy Commission ("CEC") held a final meeting on May 15, 2007. On May 15, 2008, in R.08-03-008 a *Scoping Memo and Ruling of the Assigned Commissioner and Administrative Law Judge* included the guidance that the CPUC "consider the ongoing work of [the Rule 21 Working Group]…" and directed the Energy Division to conduct a workshop. That single workshop was held on June 20, 2008.

Also, an added advantage for generators is that network upgrade charges under FERC interconnection procedures are refunded, unlike the treatment under Rule 21.

WDT interconnection procedures for the interconnection of any new PURPA QF generators.

Tariff Revisions

PG&E adds the following language to Rule 21, Section A, "Applicability," authorizing the use of FERC's interconnection procedures (SGIP/LGIP/GIP/WDT), rules and applications on an interim basis:

For an interim period until otherwise ordered by the Commission, the Commission directs PG&E to use the currently effective interconnection procedure contained in the California Independent System Operator's (CAISO) tariff or PG&E's Wholesale Distribution Tariff (WDT) for applicants for the interconnection of a Generating Facility that has contracted to sell or intends to sell all its exports to the grid to PG&E under a Public Utility Regulatory Policies Act (PURPA) power purchase agreement. A net energy metering (NEM) customer's generating facility is exempt from this provision and may be interconnected pursuant to the other provisions of this Rule.

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 **July 7, 2011**, which is 20 days after the date of this filing. Protests should be mailed to:

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

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, Regulatory Relations 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 Tier 3 advice filing become effective upon Commission approval.

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 and the service lists for R.08-06-024, A.08-11-001, and R.10-05-004. Address changes to the General Order 96-B service list should be directed to 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. Advice letter filings can also be accessed electronically at http://www.pge.com/tariffs.

Vice President - Regulation and Rates

Bran Cherry/ent

cc: Service Lists R.08-06-024, A.08-11-001, R.10-05-004

Attachments

CALIFORNIA PUBLIC UTILITIES COMMISSION

ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COM	PLETED BY UTILITY (Attach additional pages as needed)				
Company name/CPUC Utility No. Pacific Gas and Electric Company (ID U39 M)					
Utility type:	Contact Person: <u>Linda Tom-Martinez</u>				
☑ ELC ☑ GAS	Phone #: (415) 973-4612				
□ PLC □ HEAT □ WATER	E-mail: lmt1@pge.com				
EXPLANATION OF UTILITY T					
ELC = Electric GAS = Gas	(Date Field Received Stainp by CF (CC)				
	WATER = Water				
Advice Letter (AL) #: 3864-E Subject of AL: Establishment of an Interim Interconnection Procedure for Rule 21 Qualifying Facilities Signing New PURPA Power Purchase Agreements With PG&E					
Keywords (choose from CPUC listing): Ag	reements, Rules				
AL filing type: ☐ Monthly ☐ Quarterly ☐ An					
If AL filed in compliance with a Commission o					
Does AL replace a withdrawn or rejected AL?	<u> </u>				
Summarize differences between the AL and the					
	what information is the utility seeking confidential treatment for:				
	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: <u>Upon Commission Approval</u> No. of tariff sheets: <u>3</u>					
Estimated system annual revenue effect (%): N/A					
Estimated system average rate effect (%): <u>N/A</u>					
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 21					
Service affected and changes proposed ¹ : N/A					
Pending advice letters that revise the same tariff sheets: $\underline{N/A}$					
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	Pacific Gas and Electric Company				
Tariff Files, Room 4005	Attn: Brian Cherry Vice President, Regulation and Rates				
DMS Branch	77 Beale Street, Mail Code B10C				
505 Van Ness Ave., San Francisco, CA 94102	P.O. Box 770000				
jnj@cpuc.ca.gov and mas@cpuc.ca.gov	San Francisco, CA 94177				
Julescharge, and masmcharge,	E-mail: PGETariffs@pge.com				

		Advice 3864-E
Cal P.U.C. Sheet No.	Title of Sheet	Cancelling Cal P.U.C. Sheet No.
30481-E	ELECTRIC RULE NO. 21 GENERATING FACILITY INTERCONNECTIONS Sheet 1	23678-E*
30482-E	ELECTRIC TABLE OF CONTENTS Sheet 1	30371-E
30483-E	ELECTRIC TABLE OF CONTENTS RULES Sheet 20	29908-E

ATTACHMENT 1

Revised Cancelling Revised

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 30481-E 23678-E*

ELECTRIC RULE NO. 21GENERATING FACILITY INTERCONNECTIONS

Sheet 1

A. Applicability

Applicability. This Rule describes the Interconnection, operating and Metering requirements for Generating Facilities to be connected to Pacific Gas and Electric's (PG&E) Distribution System over which the California Public Utilities Commission (Commission) has jurisdiction. Subject to the requirements of this Rule, PG&E will allow the Interconnection of Generating Facilities with its Distribution System.

For an interim period until otherwise ordered by the Commission, the Commission directs PG&E to use the currently effective interconnection procedure contained in the California Independent System Operator's (CAISO) tariff or PG&E's Wholesale Distribution Tariff (WDT) for applicants for the interconnection of a Generating Facility that has contracted to sell or intends to sell all its exports to the grid to PG&E under a Public Utility Regulatory Policies Act (PURPA) power purchase agreement. A net energy metering (NEM) customer's generating facility is exempt from this provision and may be interconnected pursuant to the other provisions of this Rule.

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Definitions. Capitalized terms used in this Rule, and not defined in PG&E's other tariffs, shall have the meaning ascribed to such terms in Section H of this Rule. The definitions set forth in Section H of this Rule shall only apply to this Rule and may not apply to PG&E's other tariffs.

Consistent with IEEE 1547, this Rule has been revised to be consistent with the requirements of ANSI/IEEE¹ 1547-2003 Standard for Interconnecting Distributed Resources with Electric Power Systems (IEEE 1547). In some cases, IEEE 1547 language has been adopted directly, in others, IEEE 1547 requirements were interpreted and this Rule's language was changed to maintain the spirit of both documents.

Language from IEEE 1547 that has been adopted directly (as opposed to paraphrased language or previous language that was determined to be consistent with IEEE 1547) is followed by a citation that lists the clause from which the language derived. For example, IEEE1547-4.1.1 is a reference to Clause 4.1.1.

In the event of any conflict between this Rule and any of the standards listed herein, the requirements of this Rule shall take precedence.

B. General Rules, Rights and Obligations

Authorization Required to Operate. A Producer must comply with this Rule, execute an
Interconnection Agreement with PG&E, and receive PG&E's express written permission before
Parallel Operation of its Generating Facility with PG&E's Distribution System. PG&E shall apply
this Rule in a non-discriminatory manner and shall not unreasonably withhold its permission for
Parallel Operation of Producer's Generating Facility with PG&E's Distribution System.

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Advice Letter No:	3864-E	Issued by	Date Filed	June 17, 201
Decision No.		Brian K. Cherry	Effective	
		Vice President	Resolution No.	
1P10		Regulation and Rates		

ANSI – American National Standards Institute, IEEE – Institute of Electrical and Electronic Engineers.

Revised Cancelling Revised

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 30482-E 30371-E

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1P6

Issued by **Brian K. Cherry**Vice President
Regulation and Rates

Date Filed June 17, 2011
Effective
Resolution No.

Cancelling

Revised Original

Cal. P.U.C. Sheet No. Cal. P.U.C. Sheet No. 30483-E 29908-E

ELECTRIC TABLE OF CONTENTS RULES

Sheet 20

RULE	CAL P.U.C. TITLE OF SHEET SHEET NO.	
	Rules (Cont'd)	
Rule 20	Replacement of Overhead with Underground Electric Facilities	
Rule 21	Generating Facility Interconnections	(T)
Rule 22	Direct Access Service	
Rule 22.1	Direct Access Service Switching Exemption Rules29174-29175, 29633, 20999,29463,29178,29179,29464,29181-83,29465,29466,29186-19186-29190-E	
Rule 22.2	Direct Access Service for Qualified Nonprofit Charitable Organizations	
Rule 23	Community Choice Aggregation	3,
Rule 23.2	Community Choice Aggregation Open Season25575-25577,27270,27271-E	

(Continued)

Advice Letter No: 3864-E Decision No.

20P6

Issued by Brian K. Cherry Vice President Regulation and Rates Date Filed Effective Resolution No.

June 17, 2011

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

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California Energy Commission
California League of Food Processors
California Public Utilities Commission

Calpine

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City of Palo Alto Utilities Clean Energy Fuels

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OnGrid Solar Praxair

R. W. Beck & Associates

RCS, Inc.

Recurrent Energy SCD Energy Solutions

SCE SMUD SPURR

San Francisco Public Utilities Commission

Santa Fe Jets Seattle City Light Sempra Utilities

Sierra Pacific Power Company

Silicon Valley Power Silo Energy LLC

Southern California Edison Company

Spark Energy, L.P. Sun Light & Power Sunshine Design

Sutherland, Asbill & Brennan Tabors Caramanis & Associates

Tecogen, Inc.

Tiger Natural Gas, Inc.

TransCanada

Turlock Irrigation District

United Cogen

Utility Cost Management

Utility Specialists

Verizon

Wellhead Electric Company
Western Manufactured Housing
Communities Association (WMA)

eMeter Corporation