

PUBLIC UTILITIES COMMISSION

SAN FRANCISCO, CA 94102-3298



October 25, 2011

Advice Letters 2575-E and 2575-E-A

Akbar Jazayeri
Vice President, Regulatory Operations
Southern California Edison Company
P O Box 800
Rosemead, CA 91770

**Subject: Modifications to Rule 21 – Generating Facility Interconnections, Section D
and Supplemental Filing**

Dear Mr. Jazayeri:

Advice Letters 2575-E and 2575-E-A are effective October 5, 2011.

Sincerely,

A handwritten signature in blue ink that reads "Julie A. Fitch".

Julie A. Fitch, Director
Energy Division

October 5, 2011

ADVICE 2575-E-A
(U 338-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA
ENERGY DIVISION

SUBJECT: Supplemental Filing to Further Modify Rule 21 – Generating Facility Interconnections, Section D

Southern California Edison (SCE) hereby submits for filing, this advice letter to supplement Advice 2575-E, in part, to further modify Rule 21 – Generating Facility Interconnections, Section D – Generating Facility Design and Operating Requirements. The revised tariff sheets are listed on Attachment A and are attached hereto.

PURPOSE

On April 20, 2011, SCE filed Advice 2575-E to revise Electric Rule 21 – Generating Facility, Section D, Generating Facility Design and Operating Requirements to provide SCE greater flexibility in determining the requirements for generating facilities interconnecting to SCE's secondary distribution system. Pacific Gas and Electric Company (PG&E) proposed similar changes to its Rule 21 in Advice 3508-E- A. On September 13, 2011, the California Public Utilities Commission (Commission) staff request that SCE submit a supplemental advice letter to Advice 2575-E incorporating similar changes to Rule 21, after approval of draft Resolution E-4411 to PG&E's Advice 3508-E. On September 22, 2011, the Commission issued Resolution E-4411 approving PG&E's advice letter with additional clarifying modifications to Rule 21. This supplemental advice letter responds to the Commission's request and incorporates similar changes to Rule 21, as those adopted in Resolution E-4411.

BACKGROUND

On August 18, 2009, PG&E submitted Advice 3508-E *Revisions to Electric Rule 21- Generating Facility Interconnections Section D*. In response to its filing, on September 21, 2009, PG&E received protests from the Division of Ratepayer Advocates and the Interstate Renewable Energy Council. Subsequently, the Energy Division suspended Advice 3508-E and asked that PG&E work with SCE and San Diego Gas & Electric Company (SDG&E) to develop consistent changes to all three investor owned utilities'

(IOUs') Rule 21 tariffs, and to address the concerns raised in the protests. In collaboration with PG&E and SDG&E, SCE filed Advice 2575-E on April 20, 2011 to modify its Rule 21 consistent with the changes proposed by the other IOUs. The Commission suspended SCE's Advice 2575-E on May 18, 2011.

The revisions proposed in Advice 2575-E affected Sections D.3.d, D.2.b.1, D.2.b.2, D.2.b.3 and D.2.i. Existing Section D.3.d. restricts single-phase generators connected to a shared single-phase secondary system to a net name plate capacity of 20kVA. Due to this restriction, SCE is limited in accommodating customer installations where the capacity of the distribution system may allow a Generating Facility larger than 20 kVA. The modification in the language requested in AL 2575-E would allow SCE greater flexibility in determining generating facilities' interconnection requirements. Sections D.2.b.1, D.2.b.2, D.2.b.3 are related to voltage trip setting and Section D.2.i is related to Power Factor. The changes requested for these sections were to clarify the existing language.

On September 22, 2011, the Commission issued Resolution E-4411, which approved PG&E Advice 3508-E-A with additional clarifying modifications. As discussed above, PG&E's 3508-E-A is the equivalent of SCE's Advice 2575-E and the Commission has requested that SCE file a supplemental filing to Advice 2575-E to incorporate the provisions of Resolution E-4411 once it was issued. Accordingly, SCE is filing this supplemental advice letter to incorporate the additional clarifying modifications ordered by Resolution E-4411, into its Rule 21.

PROPOSED TARIFF MODIFICATIONS

Below are additional tariff modifications ordered in Resolution E-4411:

- Section D.2.b title is changed to: "Voltage Trip Settings"
- Table D. title is changed to: "Voltage Trip Settings for Generating Facilities"
- The heading of the Voltage Range columns is changed to: "Voltage at Point of Common Coupling (the Ranges Below Are Used to Trip the Generating Facility during Abnormal Distribution System Conditions)."
- Table D.1, the last sentence of the footnote is revised to make it a separate footnote to the title of Table D.1 to read: "For Generating Facilities with a rating greater than 30 kVA, set points shall be field adjustable and different voltage set points and trip times from those in Table D.1 may be negotiated with SCE."

TIER DESIGNATION

Pursuant to General Order (GO) 96-B, Energy Industry Rule 5.1, this advice letter is submitted with a Tier 1 designation.

EFFECTIVE DATE

This advice filing will become effective October 5, 2011, the same day filed.

NOTICE

Anyone wishing to protest this advice filing may do so by letter via U.S. Mail, facsimile, or electronically, any of which must be received no later than 20 days after the date of this advice filing. Protests should be mailed to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, California 94102
E-mail: inj@cpuc.ca.gov and mas@cpuc.ca.gov

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

In addition, protests and all other correspondence regarding this advice letter should also be sent by letter and transmitted via facsimile or electronically to the attention of:

Akbar Jazayeri
Vice President of Regulatory Operations
Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, California 91770
Facsimile: (626) 302-4829
E-mail: AdviceTariffManager@sce.com

Leslie E. Starck
Senior Vice President
c/o Karyn Gansecki
Southern California Edison Company
601 Van Ness Avenue, Suite 2030
San Francisco, California 94102
Facsimile: (415) 929-5540
E-mail: Karyn.Gansecki@sce.com

There are no restrictions on who may file a protest, but the protest shall set forth specifically the grounds upon which it is based and shall be submitted expeditiously.

In accordance with Section 4 of GO 96-B, SCE is serving copies of this advice filing to the interested parties shown on the attached GO 96-B and R.10-05-004 service lists. Address change requests to the GO 96-B service list should be directed by electronic mail to AdviceTariffManager@sce.com or at (626) 302-4039. For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at Process_Office@cpuc.ca.gov.

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by filing and keeping the advice filing at SCE's corporate headquarters. To view other SCE advice letters filed with the Commission, log on to SCE's web site at <http://www.sce.com/AboutSCE/Regulatory/adviceletters>.

For questions, please contact Ingrid Vigh at (626) 302-7383 or by electronic mail at vighi@sce.com

Southern California Edison Company

Akbar Jazayeri

AJ:iv:jm
Enclosures

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.: Southern California Edison Company (U 338-E)

Utility type:

- ELC GAS
 PLC HEAT WATER

Contact Person: James Yee

Phone #: (626) 302-2509

E-mail: James.Yee@sce.com

E-mail Disposition Notice to: AdviceTariffManager@sce.com

EXPLANATION OF UTILITY TYPE

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

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 2575-E-A

Tier Designation: 1

Subject of AL: Supplemental Filing to Further Modify Rule 21- Generating Facility Interconnections, Section D

Keywords (choose from CPUC listing): Compliance

AL filing type: Monthly Quarterly Annual One-Time Other

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

Resolution E-4411

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: _____

Summarize differences between the AL and the prior withdrawn or rejected AL¹: _____

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement.

Name and contact information to request nondisclosure agreement/access to confidential information:

Resolution Required? Yes No

Requested effective date: 10/5/11 No. of tariff sheets: -2-

Estimated system annual revenue effect: (%): _____

Estimated system average rate effect (%): _____

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: Rule 21

Service affected and changes proposed¹: _____

Pending advice letters that revise the same tariff sheets: 2575-E

¹ Discuss 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 filing, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Ave.,
San Francisco, CA 94102
inj@cpuc.ca.gov and mas@cpuc.ca.gov

Akbar Jazayeri
Vice President of Regulatory Operations
Southern California Edison Company
2244 Walnut Grove Avenue
Rosemead, California 91770
Facsimile: (626) 302-4829
E-mail: AdviceTariffManager@sce.com

Leslie E. Starck
Senior Vice President
c/o Karyn Gansecki
Southern California Edison Company
601 Van Ness Avenue, Suite 2030
San Francisco, California 94102
Facsimile: (415) 929-5540
E-mail: Karyn.Gansecki@sce.com

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 48233-E Revised 48234-E	Rule 21 Rule 21	Revised 48160-E Revised 48161-E

Rule 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 11

(Continued)

D. Generating Facility Design and Operating Requirements. (Continued)

2. Prevention of Interference: The Producer shall not operate Generating or Interconnection Facilities that superimpose a voltage or current upon SCE's Distribution System that interferes with SCE operations, service to SCE Customers, or communication facilities. If such interference occurs, the Producer must diligently pursue and take corrective action at its own expense after being given notice and reasonable time to do so by SCE. If the Producer does not take corrective action in a timely manner, or continues to operate the facilities causing interference without restriction or limit, SCE may, without liability, disconnect the Producer's facilities from SCE's Distribution System, in accordance with Section B.9 of this Rule. To eliminate undesirable interference caused by its operation, each Generating Facility shall meet the following criteria:
- a. Voltage Regulation. The GF shall not actively regulate the voltage at the PCC while in parallel with SCE's Distribution System. The GF shall not cause the service voltage at other customers to go outside the requirements of ANSI C84.1-1995, Range A (IEEE 1547-4.1.1).
 - b. Voltage Trip Setting: The voltage ranges in Table D.1 define protective trip limits for the Protective Function and are not intended to define or imply a voltage regulation Function. Generating Facilities shall cease to energize SCE's Distribution System within the prescribed trip time whenever the voltage at the PCC deviates from the allowable voltage operating range. The Protection Function shall detect and respond to voltage on all phases to which the Generating Facility is connected.
 - (1) Generating Facilities (30 kVA or less): Generating Facilities with a Gross Rating of 30 kVA or less shall be capable of operating within the voltage range normally experienced on SCE's Distribution System from plus to minus 5% of the nominal voltage (e.g. 114 volts to 126 volts, on a 120 volt base), at the service panel or PCC. The trip settings at the generator terminals may be selected in a manner that minimizes nuisance tripping between 106 volts and 132 volts on a 120-volt base (88%-110% of nominal voltage) to compensate for voltage drop between the generator terminals and the PCC. Voltage may be detected at either the PCC or the Point of Interconnection. However, the voltage range at the PCC, with the generator on-line, shall stay within +/-5% of nominal. (T)
 - (2) Generating Facilities (greater than 30 kVA): SCE may have specific operating voltage ranges for Generating Facilities with Gross Ratings greater than 30 kVA, and may require adjustable operating voltage settings. In the absence of such requirements, the Generating Facility shall be capable of operating at a range between 88% and 110% of the applicable interconnection voltage. Voltage shall be detected at either the PCC or the Point of Interconnection, with settings compensated to account for the voltage at the PCC. However, the voltage range at the PCC, with the generator on-line, shall stay within +/-5% of nominal. (T)
 - (3) Voltage Disturbances: Whenever SCE's Distribution System voltage at the PCC varies from and remains outside normal (Nominally 120 volts) for the predetermined parameters set forth in Table D-1, the Generating Facility's Protective Functions shall cause the Generator (s) to become isolated from SCE's Distribution System: (T)

(Continued)

(To be inserted by utility)

Advice 2575-E-A
Decision _____

Issued by

Akbar Jazayeri
Vice President

(To be inserted by Cal. PUC)

Date Filed Oct 5, 2011
Effective Oct 5, 2011
Resolution E-4411

Rule 21
GENERATING FACILITY INTERCONNECTIONS

Sheet 12

(Continued)

D. Generating Facility Design and Operating Requirements. (Continued)

2. Prevention of interference. (Continued)

b. Operating Voltage Range (Continued)

Table D.1: Voltage Trip Settings for Generating Facilities*			
Voltage at Point of Common Coupling (the ranges below are used to trip the generator during abnormal distribution system conditions)		Maximum Trip Time**	
Assuming 120 Volt Base	% of Nominal Voltage	# of Cycles (Assuming 60 Hz Nominal)	Seconds
Less than 60 volts	Less than 50%	10 Cycles	0.16 Seconds
Greater than or equal to 60 volts but less than 106 volts	Greater than or equal to 50% but less than 88%	120 Cycles	2 Seconds
Greater than 132 volts but less than or equal to 144 volts	Greater than 110% but less than or equal to 120%	60 Cycles	1 Second
Greater than 144 volts	Greater than 120%	10 Cycles	0.16 Seconds

*For Generating Facilities with a Rating greater than 30 kVA, set points shall be field adjustable and different voltage set points and trip times from those in Table D.1 may be negotiated with SCE. (N)

** "Maximum Trip Time" refers to the time between the onset of the abnormal condition and the Generating Facility ceasing to energize SCE's Distribution System. Protective Function equipment and circuits may remain connected to SCE's Distribution System to allow sensing of electrical conditions for use by the "reconnect" feature. The purpose of the allowed time delay is to allow for a Generating Facility to minimize tripping during short term system disturbances. Set points shall not be user adjustable for generating facilities less than 30 kW. (T)

c. Paralleling: The Generating Facility shall parallel with SCE's Distribution System without causing a voltage fluctuation at the PCC greater than plus/minus 5% of the prevailing voltage level of SCE's Distribution System at the PCC, and meet the flicker requirements of Section D.2.d. Section J provides technology-specific tests for evaluating the paralleling Function. (IEEE 1547-4.1.3) (L)

(Continued)

(To be inserted by utility)
Advice 2575-E-A
Decision _____

Issued by
Akbar Jazayeri
Vice President

(To be inserted by Cal. PUC)
Date Filed Oct 5, 2011
Effective Oct 5, 2011
Resolution E-4411