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January 9, 2001

**ADVICE 1498-E-A**  
**(U 338-E)**

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA  
ENERGY DIVISION

**SUBJECT:** Supplemental Filing Revising Rule 1, Definitions,  
Replacement of Existing Rule 21, Generating Facilities  
Interconnection, and Establishment of Form 14-371,  
Generating Facility Interconnection Agreement, and Form  
14-372, Application To Interconnect A Generating Facility

In compliance with Decision 00-11-001 (D.00-11-001) and Decision 00-12-037 (D.00-12-037) Southern California Edison Company (SCE) submits for filing the following changes to its tariff schedules. The revised tariff sheets are listed on Attachment A and are attached hereto.

**PURPOSE**

This advice filing supplements in part Advice 1498-E to revise the previously submitted Replacement of Rule 21, Generating Facilities Interconnection.<sup>1</sup> In addition, in compliance with D.00-12-037, this advice filing revises Generating Facility Interconnection Agreement, Form 14-731, and Application to Interconnect a Generating Facility, Form 14-732.

**BACKGROUND**

In response to Rulemaking 99-10-025, the California Energy Commission (CEC) initiated a workshop process to consider revisions to the current interconnection rules. The CEC filed the "Recommendations Regarding Distributed Generation Interconnection Rules" with the California Public Utilities Commission (Commission) on June 27, 2000. A modified version of the Distributed Generation Interconnection Rules was also filed October 25, 2000. The documents set forth the

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<sup>1</sup> This advice filing supplements, in part, Advice 1498-E, however, for administrative ease, this advice filing provides the Rule 21 tariffs in its entirety.

CEC's recommendations for changes to existing interconnection rules that are part of utility tariff Rule 21.

On November 2, 2000, the Commission issued D.00-11-011 ordering SCE and other utilities to file compliance advice letters to, among other things, replace their existing Rule 21 with the Model Tariff. Pursuant to this Decision, SCE filed Advice 1498-E on November 17, 2000 with minor modifications for clarification and to conform with SCE's existing Rules and Tariffs. In addition, Advice 1498-E was filed to (1) revise Rule 1 to expand certain definitions, (2) establish Form 14-731, Generating Facility Interconnection Agreement, and Form 14-732, Application To Interconnect A Generating Facility.

On December 21, 2000, the Commission issued D.00-12-037 approving the Rule 21 language adopted by the CEC on October 25, 2000 in its entirety, as conformed with D.00-11-001. This Decision directs SCE and other utilities to file a compliance advice letter to replace its existing Rule 21 with the Model Tariff, Interconnection Application Form and Agreement. The changes provided in this advice filing complies with the Commission's order.

No cost information is required for this advice filing.

### **EFFECTIVE DATE**

In accordance with D.00-11-001, and D.00-12-037, the changes submitted in this advice filing will become effective upon filing, subject to Energy Division determining that the changes are in compliance with the Order.

### **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:

IMC Program Manager  
Energy Division  
California Public Utilities Commission  
505 Van Ness Avenue, Room 4002  
San Francisco, California 94102  
Facsimile: (415) 703-2200  
E-mail: [jjr@cpuc.ca.gov](mailto:jjr@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:

Donald A. Fellows  
Manager of Revenue and Tariffs  
Southern California Edison Company  
2244 Walnut Grove Avenue, Rm. 303  
Rosemead, California 91770  
Facsimile: (626) 302-4829  
E-mail: fellowda@sce.com

Bruce Foster  
Vice President of Regulatory Operations  
Southern California Edison Company  
601 Van Ness Avenue, Suite 2040  
San Francisco, California 94102  
Facsimile: (415) 673-1116  
E-mail: fosterbc@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 III, Paragraph G, of General Order No. 96-A, SCE is mailing copies of this advice filing to the interested parties shown on the attached service list, and R.99-10-025. Address change requests to the attached GO 96-A Service List should be directed to Emelyn Lawler at (626) 302-3985 (Emelyn.Lawler@sce.com).

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by filing and keeping the advice filing open for public inspection at SCE's corporate headquarters.

**Southern California Edison Company**

Donald A. Fellows, Jr.

DAF:eml

Enclosures

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Revised 27921-E Revised 27922-E	Rule 1 Rule 1	Revised 22912-E Revised 22914-E
Original 27923-E	Rule 21	
Original 27924-E	Rule 21	
Original 27925-E	Rule 21	
Original 27926-E	Rule 21	
Original 27927-E	Rule 21	
Original 27928-E	Rule 21	
Original 27929-E	Rule 21	
Original 27930-E	Rule 21	
Original 27931-E	Rule 21	
Original 27932-E	Rule 21	
Original 27933-E	Rule 21	
Original 27934-E	Rule 21	
Original 27935-E	Rule 21	
Original 27936-E	Rule 21	
Original 27937-E	Rule 21	
Original 27938-E	Rule 21	
Original 27939-E	Rule 21	
Original 27940-E	Rule 21	
Original 27941-E	Rule 21	
Original 27942-E	Rule 21	
Original 27943-E	Rule 21	
Original 27944-E	Rule 21	
Original 27945-E	Rule 21	
Original 27946-E	Rule 21	
Original 27947-E	Rule 21	
Original 27948-E	Rule 21	
Original 27949-E	Rule 21	
Original 27950-E	Rule 21	
Original 27951-E	Rule 21	
Original 27952-E	Rule 21	
Original 27953-E	Rule 21	
Original 27954-E	Rule 21	
Original 27955-E	Rule 21	
Original 27956-E	Rule 21	
Original 27957-E	Rule 21	
Original 27958-E*	Rule 21	
Original 27959-E*	Rule 21	
Original 27960-E*	Rule 21	
Original 27961-E	Rule 21	
Original 27962-E	Rule 21	
Original 27963-E	Rule 21	
Original 27964-E	Rule 21	
Original 27965-E	Rule 21	
Original 27966-E	Rule 21	
Original 27967-E	Rule 21	
Original 27968-E	Rule 21	
Original 27969-E	Rule 21	
Original 27970-E	Rule 21	
Original 27971-E	Rule 21	

Cal. P.U.C. Sheet No.	Title of Sheet	Cancelling Cal. P.U.C. Sheet No.
Original 27972-E	Generating Facility Interconnection Agreement, Form 14-731	
Original 27973-E	Application to Interconnect a Generating Facility, Form 14-732	
Revised 27974-E	Table of Contents	Revised 27909-E
Revised 27975-E	Table of Contents	Revised 27033-E
Revised 27976-E	Table of Contents	Revised 27341-E

**GENERATING FACILITY INTERCONNECTION AGREEMENT  
SOUTHERN CALIFORNIA EDISON**

\_\_\_\_\_  
(Producer Name)

This Generating Facility Interconnection Agreement ("Agreement") is entered into by and between (Producer's Name) ("Producer"), and Southern California Edison Company ("SCE"), a California Corporation. Producer and SCE are sometimes also referred to in this Agreement jointly as "Parties" or individually as "Party." In consideration of the mutual promises and obligations stated in this Agreement and its attachments, the Parties agree as follows:

1. SCOPE AND PURPOSE

This Agreement provides for Producer to interconnect and operate a Generating Facility in parallel with SCE's Distribution System to serve the electrical loads connected to the electric service account that SCE uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the California Public Utilities Commission Code ("PU Code"), the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits).

2. SUMMARY AND DESCRIPTION OF PRODUCER'S GENERATING FACILITY

2.1 A description of the Generating Facility, including a summary of its significant components and a single-line diagram showing the general arrangement of how Producer's Generating Facility and loads are interconnected with SCE's Distribution System, are attached to and made a part of this Agreement. (Supplied by Producer as Appendix A).

2.2 Generating Facility identification number: \_\_\_\_\_ (Assigned by SCE)

2.3 Producer's electric service account number: \_\_\_\_\_ (Assigned by SCE)

2.4 Name and address used by SCE to locate the electric service account used to interconnect the Generating Facility with SCE's Distribution System:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.5 The Gross Nameplate Rating of the Generating Facility is: \_\_\_\_\_ kW.

2.6 The Net Nameplate Rating of the Generating Facility is \_\_\_\_\_ kW.

2.7 The expected annual energy production of the Generating Facility is \_\_\_\_\_ kWh.

2.8 For the purpose of securing the Competition Transition Charge exemption available under Section 372 of the California Public Utilities Code ("PUC"), Producer hereby declares that the Generating Facility  does /  does not meet the requirements for "Cogeneration" as such term is used in Section 218.5 of the PU Code.

2.9 The Generating Facility's expected date of Initial Operation is \_\_\_\_\_.

The expected date of Initial Operation shall be within two years of the date of this Agreement.

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\_\_\_\_\_  
(Producer Name)

3. DOCUMENTS INCLUDED; DEFINED TERMS

3.1 When this Agreement is completed, it may include the following exhibits which are specifically incorporated herein and made a part of this Agreement.

- Appendix A- Description of Generating Facility and Single-Line Diagram  
(Supplied by Producer)
- Appendix B- Copies of Rules 2 and 21 and other selected rules and tariffs of SCE  
(Supplied by SCE)
- Appendix C- A Copy of an interconnection facility financing and ownership  
agreement, if applicable, (Supplied by SCE)

3.2 When initially capitalized, whether in the singular or in the plural, the terms used herein shall have the meanings assigned to them either in this Agreement or in SCE's Rule 21, Section H.

4. TERM AND TERMINATION

4.1 This Agreement shall become effective as of the last date entered in Section 16, below. The Agreement shall continue in full force and effect until the earliest date that one of the following events occurs:

- (a) The Parties agree in writing to terminate the Agreement.
- (b) Unless otherwise agreed in writing by the Parties, at 12:01 A.M. on the day following the date the electric service account through which Producer's Generating Facility is interconnected to SCE's Distribution System is closed or terminated.
- (c) At 12:01 A.M. on the 61<sup>st</sup> day after Producer or SCE provides written Notice pursuant to Section 9 below to the other Party of Producer's or SCE's intent to terminate this Agreement.

4.2 Producer may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for any reason. SCE may elect to terminate this Agreement pursuant to the terms of Section 4.1(c) for one or more of the following reasons:

- (a) A change in applicable rules, tariffs, and regulations, as approved or directed by the Commission, or a change in any local, state or federal law, statute or regulation, either of which materially alters or otherwise affects SCE's ability or obligation to perform SCE's duties under this Agreement; or,

**GENERATING FACILITY INTERCONNECTION AGREEMENT  
SOUTHERN CALIFORNIA EDISON**

\_\_\_\_\_  
(Producer Name)

- (b) Producer fails to take all corrective actions specified in SCE's Notice that Producer's Generating Facility is out of compliance with the terms of this Agreement within the time frame set forth in such Notice; or,
- (c) Producer fails to interconnect and operate the Generating Facility per the terms of this Agreement prior to 120 days after the date set forth in Section 2.9, above, as the Generating Facility's expected date of Initial Operation; or,
- (d) Producer abandons the Generating Facility. SCE shall deem the Generating Facility to be abandoned if SCE determines, in its sole opinion, the Generating Facility is non-operational and Producer does not provide a substantive response to SCE's Notice of its intent to terminate this Agreement as a result of Producer's apparent abandonment of the Generating Facility affirming Producer's intent and ability to continue to operate the Generating Facility.

4.3 Notwithstanding any other provisions of this Agreement, SCE shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application to terminate this Agreement.

4.4 Any agreements attached to and incorporated into this Agreement shall terminate concurrently with this Agreement unless the Parties have agreed otherwise in writing.

5. GENERATING FACILITY, OPERATION AND CERTIFICATION REQUIREMENTS

5.1 The electric power produced by Producer's Generating Facility shall be used solely to serve electrical loads connected to the electric service account that SCE uses to interconnect Producer's Generating Facility (or, where permitted under Section 218 of the PUC, the electric loads of an on-site or neighboring party lawfully connected to Producer's Generating Facility through Producer's circuits). Producer shall attempt in good faith to regulate the electric power output of Producer's Generating Facility so as to prevent the flow of electric energy from the Generating Facility to SCE's electric system. Unless otherwise agreed upon in writing by the Parties, this Agreement does not provide for, nor otherwise require SCE to receive, purchase, transmit, distribute, or store the electrical power produced by Producer's Generating Facility.

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\_\_\_\_\_  
(Producer Name)

5.2 If Producer declares that its Generating Facility meets the requirements for "Cogeneration" as such term is used in Section 218.5 of the PUC (or any successor definition of "Cogeneration") ("Cogeneration Requirements"), Producer warrants that, beginning on the date of Initial Operation and continuing throughout the term of this Agreement, its Generating Facility shall continue to meet such Cogeneration Requirements. If Producer becomes aware that its Generating Facility has ceased to meet the Cogeneration Requirements, Producer shall promptly provide SCE with Notice of such change pursuant to Section 9.1 below. If at any time during the term of this Agreement SCE determines in its sole discretion that Producer's Generating Facility may no longer meet the Cogeneration Requirements, SCE may require Producer to provide evidence that its Generating Facility continues to meet the Cogeneration Requirements within 15 business days of SCE's request for such evidence. Additionally, SCE may periodically (typically, once per year) inspect Producer's Generating Facility and/or require documentation from Producer to monitor the Generating Facility's compliance with Section 218.5 of the PUC. If SCE determines in its sole judgment that Producer either failed to provide evidence in a timely manner or that it provided insufficient evidence that its Generating Facility continues to meet the Cogeneration Requirements, then the Cogeneration status of the Generating Facility shall be deemed ineffective until such time as Producer again demonstrates to SCE's reasonable satisfaction that the Generating Facility meets the requirements for a Cogeneration facility (the "Status Change").

5.2.1 SCE shall revise its records and the administration of this Agreement to reflect the Status Change and provide Notice to Producer of the Status Change pursuant to Section 9.1 below. This Notice shall specify the effective date of the Status Change. This date shall be the first day of the calendar year for which SCE determines in its sole discretion that the Generating Facility first ceased to meet the Cogeneration Requirements. SCE's Notice shall include an invoice for Competition Transition Charges ("CTCs") that were not previously billed during the period between the effective date of the Status Change and the date of the Notice in reliance upon Producer's representations that the Generating Facility complied with the Cogeneration Requirements and therefore was eligible for the exemption from CTCs available under Section 372 of the PUC.

5.2.2 Any amounts to be paid or refunded by Producer, as may be invoiced by SCE pursuant to the terms of this Section 5.2, shall be paid to SCE within 30 days of Producer's receipt of such invoice.

**6. INTERCONNECTION FACILITIES**

6.1 Producer and/or SCE, as appropriate, shall provide Interconnection Facilities that adequately protect SCE's Distribution System, personnel, and other persons from damage or injury, which may be caused by the operation of Producer's Generating Facility.

6.2 Producer shall be solely responsible for the costs, design, purchase, construction, operation, and maintenance of the Interconnection Facilities that Producer owns.

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\_\_\_\_\_  
(Producer Name)

6.3 If the provisions of SCE's Rule 21, or any other tariff or rule approved by the Commission, requires SCE to own and operate a portion of the Interconnection Facilities, Producer and SCE shall promptly execute an *Interconnection Facilities Financing and Operation Agreement* that establishes and allocates responsibility for the design, installation, operation, maintenance, and ownership of the Interconnection Facilities. This *Interconnection Facilities Financing and Operation Agreement* shall be attached to and made a part of this Agreement as Appendix C.

7. LIMITATION OF LIABILITY

Each Party's liability to the other Party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either Party be liable to the other Party for any indirect, special, consequential, or punitive damages of any kind whatsoever.

8. INSURANCE

8.1 In connection with Producer's performance of its duties and obligations under this Agreement, Producer shall maintain, during the term of this Agreement, general liability insurance with a combined single limit of not less than:

- (a) Two million dollars (\$2,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than one hundred (100) kW;
- (b) One million dollars (\$1,000,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is greater than twenty (20) kW and less than or equal to one hundred (100) kW; and
- (c) Five hundred thousand dollars (\$500,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is twenty (20) kW or less.
- (d) Two hundred thousand dollars (\$200,000) for each occurrence if the Gross Nameplate Rating of Producer's Generating Facility is ten (10) kW or less and Producer's Generating Facility is connected to an account receiving residential service from SCE.

Such general liability insurance shall include coverage for "Premises-Operations, Owners and Contractors Protective, Products/Completed Operations Hazard, Explosion, Collapse, Underground, Contractual Liability, and Broad Form Property Damage including Completed Operations."

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SOUTHERN CALIFORNIA EDISON**

\_\_\_\_\_  
(Producer Name)

- 8.2 The general liability insurance required in Section 8.1 shall, by endorsement to the policy or policies, (a) include SCE as an additional insured; (b) contain a severability of interest clause or cross-liability clause; (c) provide that SCE shall not by reason of its inclusion as an additional insured incur liability to the insurance carrier for payment of premium for such insurance; and (d) provide for thirty (30) calendar days' written notice to SCE prior to cancellation, termination, alteration, or material change of such insurance.
- 8.3 If Producer's Generating Facility is connected to an account receiving residential service from SCE and the requirement of Section 8.2(a) prevents Producer from obtaining the insurance required in Section 8.1, then upon Producer's written Notice to SCE in accordance with Section 9.1, the requirements of Section 8.2(a) shall be waived.
- 8.4 Evidence of the insurance required in Section 8.2 shall state that coverage provided is primary and is not in excess to or contributing with any insurance or self-insurance maintained by SCE.
- 8.5 Producer agrees to furnish the required certificates and endorsements to SCE prior to Initial Operation. SCE shall have the right to inspect or obtain a copy of the original policy or policies of insurance.
- 8.6 If Producer is self-insured with an established record of self-insurance, Producer may comply with the following in lieu of Sections 8.1 through 8.4:
- (a) Producer shall provide to SCE, at least thirty (30) calendar days prior to the date of Initial Operation, evidence of an acceptable plan to self-insure to a level of coverage equivalent to that required under Section 8.1.
  - (b) If Producer ceases to self-insure to the level required hereunder, or if Producer is unable to provide continuing evidence of Producer's ability to self-insure, Producer agrees to immediately obtain the coverage required under Section 8.1.
- 8.7 All insurance certificates, statements of self insurance, endorsements, cancellations, terminations, alterations, and material changes of such insurance shall be issued and submitted to the following:

Southern California Edison Company  
Attention: Director, QF Resources  
2244 Walnut Grove Ave.  
P.O. Box 800  
Rosemead, CA 91770

**GENERATING FACILITY INTERCONNECTION AGREEMENT  
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\_\_\_\_\_  
(Producer Name)

9. NOTICES

- 9.1 Any written notice, demand, or request required or authorized in connection with this Agreement ("Notice") shall be deemed properly given if delivered in person or sent by first class mail, postage prepaid, to the person specified below:

If to SCE: Southern California Edison Company  
Attention: Director, QF Resources  
2244 Walnut Grove Avenue  
P.O. Box 800  
Rosemead, CA 91770  
Phone: (626) 302-1212  
FAX: (626) 302-9622

If to Producer : Producer Name  
Address: \_\_\_\_\_  
City: \_\_\_\_\_  
Phone: ( ) \_\_\_\_\_  
FAX: ( ) \_\_\_\_\_

- 9.2 A Party may change its address for Notices at any time by providing the other Party Notice of the change in accordance with Section 9.1.
- 9.3 The Parties may also designate operating representatives to conduct the daily communications, which may be necessary or convenient for the administration of this Agreement. Such designations, including names, addresses, and phone numbers may be communicated or revised by one Party's Notice to the other.

10. REVIEW OF RECORDS AND DATA

- 10.1 SCE shall have the right to review and obtain copies of Producer's operations and maintenance records, logs, or other information such as, unit availability, maintenance outages, circuit breaker operation requiring manual reset, relay targets and unusual events pertaining to Producer's Generating Facility or its interconnection with SCE's Distribution System.
- 10.2 Producer authorizes SCE to release to the California Energy Commission (CEC) information regarding Producer's Generating Facility, including customer name, location, size, and operational characteristics of the Generating Facility, as requested from time to time pursuant to the CEC's rules and regulations.

11. ASSIGNMENT

Producer shall not voluntarily assign its rights nor delegate its duties under this Agreement without SCE's written consent. Any assignment or delegation Producer makes without SCE's written consent shall not be valid. SCE shall not unreasonably withhold its consent to Producer's assignment of this Agreement.

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SOUTHERN CALIFORNIA EDISON**

\_\_\_\_\_  
(Producer Name)

12. NON-WAIVER

None of the provisions of this Agreement shall be considered waived by a Party unless such waiver is given in writing. The failure of a Party to insist in any one or more instances upon strict performance of any of the provisions of this Agreement or to take advantage of any of its rights hereunder shall not be construed as a waiver of any such provisions or the relinquishment of any such rights for the future, but the same shall continue and remain in full force and effect.

13. GOVERNING LAW, JURISDICTION OF COMMISSION, INCLUSION OF SCE'S TARIFF SCHEDULES

13.1 This Agreement shall be interpreted, governed, and construed under the laws of the State of California as if executed and to be performed wholly within the State of California without giving effect to choice of law provisions that might apply to the law of a different jurisdiction.

13.2 This Agreement shall, at all times, be subject to such changes or modifications by the Commission as it may from time to time direct in the exercise of its jurisdiction.

13.3 The interconnection and services provided under this Agreement shall at all times be subject to the terms and conditions set forth in the Tariff Schedules and Rules applicable to the electric service provided by SCE, which Tariff Schedules and Rules are hereby incorporated into this Agreement by this reference.

13.4 Notwithstanding any other provisions of this Agreement, SCE shall have the right to unilaterally file with the Commission, pursuant to the Commission's rules and regulations, an application for change in rates, charges, classification, service, tariff or rule or any agreement relating thereto.

14. AMENDMENT AND MODIFICATION

This Agreement can only be amended or modified by a written agreement signed by both Parties.

15. ENTIRE AGREEMENT

This Agreement, including any incorporated Tariff Schedules and rules, contains the entire agreement and understanding between the Parties, their agents, and employees as to the subject matter of this Agreement. Each party also represents that in entering into this Agreement, it has not relied on any promise, inducement, representation, warranty, agreement or other statement not set forth in this Agreement or in the incorporated tariff schedules and rules.

**GENERATING FACILITY INTERCONNECTION AGREEMENT  
SOUTHERN CALIFORNIA EDISON**

\_\_\_\_\_  
(Producer Name)

16. SIGNATURES

IN WITNESS WHEREOF, the Parties hereto have caused two originals of this Agreement to be executed by their duly authorized representatives. This Agreement is effective as of the last date set forth below.

PRODUCER'S NAME

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

SOUTHERN  
EDISON COMPANY

CALIFORNIA

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

APPENDIX A  
DESCRIPTION OF GENERATING FACILITY  
AND SINGLE-LINE DIAGRAM,  
(Provided by Producer)

APPENDIX B  
RULES: "2" and "21"  
(and any other Tariffs pertinent to the situation)  
(Provided by SCE)

(Note: SCE's tariffs are included for reference only and shall at all times be subject to such changes or modifications by the Commission as the Commission may, from time to time, direct in the exercise of its jurisdiction.)

APPENDIX C  
(If Applicable)  
INTERCONNECTION FACILITIES  
FINANCING AND OWNERSHIP  
AGREEMENT  
(Provided by SCE)

## APPLICABILITY

This application is for the interconnection of an electrical Generating Facility that connects directly to the electrical system of a person or business that receives electric service from Southern California Edison (SCE). This application may be used for two types of Generating Facilities:

1. *Generating Facilities that normally serve all or part of the SCE customer's own electrical requirements, but do not export or sell energy to SCE's Distribution System; and*
2. "Small (<100 kW) Qualifying Facilities" that are entitled to sell power to SCE.

If you desire to interconnect a Generating Facility for other purposes, such as Net Energy Metering pursuant to California Public Utilities Code Section 2827, or to schedule energy with the California Independent System Operator (CAISO), other applications forms are available and must be used.

Upon request, SCE will provide additional information and documents such as application forms, sample agreements, technical requirements and specifications, a listing of equipment previously certified for interconnection with its Distribution System, application fee information, applicable rate schedules and metering requirements.

### **A FORMAL INTERCONNECTION AGREEMENT AND WRITTEN AUTHORIZATION IS REQUIRED BEFORE YOU INTERCONNECT A GENERATING FACILITY WITH SCE'S DISTRIBUTION SYSTEM**

This application is solely a request for a *Generating Facility Interconnection Agreement (Form 14-731)*. It does not authorize you to interconnect a Generating Facility with SCE's Distribution System. You and SCE must first form a Generating Facility Interconnection Agreement and comply with its terms. You may be required to install metering or protection devices not supplied with your generating equipment prior to receiving SCE's permission to interconnect your generator with its Distribution System. You **must not** operate a Generating Facility in parallel with SCE's Distribution System until you receive SCE's written permission to do so. **Unauthorized interconnections are dangerous, and may result in injury to you or other persons and/or may cause damage to your equipment or SCE's Distribution System for which you will be responsible.**

## SUMMARY OF APPLICATION AND INTERCONNECTION PROCESS

1. All parties applying to interconnect a Generating Facility with SCE's Distribution System are required to complete and return this Application and supply any additional information that SCE may request to determine the requirements for interconnection. **A separate application form must be submitted for each location.** (SCE considers each metering point receiving separate electric service as an individual location.) SCE may contact you to clarify or amend your application. Incomplete or inadequate applications may be returned.

2. All applicants must pay an \$800 fee to SCE for processing the application and performing the *Initial Review* as Described in Section I. of SCE's Rule 21. The fee payment must be in the form of a check or money order payable to "Southern California Edison Company" and be submitted with this application form. The Initial Review will result in one of two possible outcomes: (1) If the Generating Facility passes each of the screens included in the Initial Review, SCE will provide its requirements for interconnection and an executable interconnection agreement to the applicant. This process normally takes about 10 business days; and (2) Alternatively, if after performing its Initial Review, SCE determines additional studies or engineering will be required to evaluate and authorize the interconnection of an applicant's Generating Facility, it will notify the applicant and request the payment of a supplemental \$600 fee. SCE will perform the additional work and provide the applicant with SCE's requirements and additional costs (if any) for interconnecting the applicant's proposed Generating Facility at the location indicated in the application. This process normally takes about 10 additional business days following the receipt of the supplemental fee. Payment for this Supplemental Review shall be submitted to SCE within 10 calendar days after an applicant's receipt of SCE's invoice for the Supplemental Review.
3. If SCE's Initial Review reveals that interconnection of an applicant's proposed Generating Facility will require substantial amounts of additional engineering, or the installation of significant or interconnection facilities modifications to SCE's Distribution System, SCE will first offer an agreement that sets forth the nature and scope of such studies, facility design, and engineering work to be performed and will provide cost estimates for fixed price or actual cost billing options to the applicant. This agreement to perform an Interconnection Study will also include SCE's estimated schedule for completing such work.
4. Where SCE's Initial Review or Interconnection Study determines that modifications or additions are required to be made to its Distribution System, or that additional metering, monitoring, or protection devices will be necessary to accommodate an applicant's Generating Facility, SCE may also provide the applicant with an interconnection facilities financing and ownership agreement as necessary. This agreement will set forth both SCE's and the Applicant's responsibilities, estimated work completion schedules, and estimated or fixed price costs for the required work.
5. If an Applicant withdraws its Application prior to the interconnection of its Generating Facility, SCE will refund \$400 to the Applicant.
6. Once the Generation Facility Interconnection Agreement and any required supplemental agreements are formed between the applicant and SCE, the applicant will be considered to be a "*Producer*". A Producer may install or construct its Generating Facility in accordance with the provisions of SCE's Rules and Tariff Schedules and the terms of the specific Generating Facility Interconnection Agreement formed between SCE and the Producer. Where applicable, SCE will commence construction/installation of the interconnection facilities system modifications and/or metering and monitoring requirements previously identified in any other interconnection facilities financing and ownership agreements.
7. Generating Facilities and associated Interconnection Facilities must be tested to ensure compliance with the safety and reliability provisions of SCE's Rules and Tariff Schedules prior to being operated in parallel with SCE's Distribution System. SCE may waive or reduce its testing requirements if the generating equipment has been previously certified for use on SCE's Distribution System. For non-certified equipment, SCE will require the Producer to submit a written testing plan for its review and acceptance. Alternatively, the

Producer and SCE may arrange to have SCE conduct the required testing at the Producer's expense. Where applicable, the test plan shall include the installation test procedure(s) published by the manufacturer(s) of the generation or interconnection equipment. Generation Facility testing shall be conducted at a mutually agreeable time, and depending on who conducts the tests, SCE or the Producer will be given the opportunity to witness the tests.

8. Upon SCE's acceptance of the technical and operating adequacy of the Generating Facility and receipt of the documentation required pursuant to the insurance provisions of the Generating Facility Interconnection Agreement, SCE will provide the Producer with a letter giving SCE's express written permission for the Producer to interconnect and operate its Generating Facility in parallel with SCE's Distribution System.

#### **APPLICATION INSTRUCTIONS**

All Applicants must complete Part 1 of the following application form. If the Generating Facility you are proposing to install has not been previously "*Certified*" or approved for interconnection with SCE's Distribution System, you must also complete Part 2 of the Application. If you are unsure about the certification status of your proposed generating equipment, please contact the manufacturer of the equipment. Based on the nature of the Generating Facility you intend to install, SCE may also request you to supply additional technical information regarding your generating equipment or the transformers used to interconnect it with SCE's Distribution System. When you submit your application and fee, **please also submit a "Single-line Diagram" of the system you plan to installed** showing the general arrangement and relationship of the various components including any customer owned transformers.



PART 1 To be filled out by all Applicants

Note: This Application must be filled out in accordance with Rule 21 Sections C., I., and J. of SCE's Tariffs. "Generating Facility Interconnection Requirements", including the Rule's Appendices A and B

Host Facility Information (Where will the Generating Facility be installed?)

Name Shown on SCE Service Account SCE Service Account and/or Meter Number (See current bill.)

Street Address City State Zip Code

Mailing Address City State Zip Code (if different from above)

Applicant Information (Who should be contacted - If different from above)

Contact Person Phone Fax Email Address

Company Name

Street Address City State Zip Code

Mailing Address City State Zip Code (if different from above)

Contractor / Installer Information (If different from above.)

Contact Person Phone Fax Email Address

Company Name

Street Address City State Zip Code

Mailing Address City State Zip Code (if different from above)

### Generating Facility Installation Information

1. How many generating units do you intend to install at the location specified in this application?

No. of Generators

*Multiple generating units connected and controlled through a single interface with SCE are considered to be all part of a single Generating Facility. Examples: photovoltaic panels connected through a single inverter or multiple micro-turbines connected through a single interface and controlled as one generating set are considered to be a single Generating Facility. If you plan to use more than one type of generating unit, please provide the information for each type and specify how many of each type you plan to use.*

2. Has any of the generation equipment you are installing been "Certified" for use in California? (See Section J. of Rule 21 for Certification requirements)  Yes  No

*If you answered "yes" to question 2, please attach your generation equipment certificate for each Certified generating unit. If every generating unit you are installing is certified, skip to question 3. If you are uncertain about the Certification status of your generation unit, please contact the manufacturer of your generating unit.*

2.1 Has any of the generation equipment you are installing been previously approved by SCE for interconnection with SCE's Distribution System?  Yes  No

*If you answered "yes" to question 2.1, please attach a copy of SCE's approval letter for each generating unit that has received approval for interconnection with SCE's Distribution System.*

2.2 Has any of the generation equipment you are installing either not Certified or previously approved for interconnection with SCE's Distribution System.?  Yes  No

*If you answered "yes" to question 2.2, please complete Part 2 of this application for each non-certified or non-SCE approved generation unit. You will need to fill out a separate Part 2 form for each non-certified, non-approved Generating unit.*

3. Do you plan to sell electric energy produced by your Generating Facility to SCE?  Yes  No

*If you answered "yes" to question 3, please continue to question 3.1. If you answered "no" to question 3, please skip to question 3.2.*

3.1 Is the Generating Facility you are installing a "Qualifying Facility" (QF) with a total installed nameplate capacity of 100 kW or less?  Yes  No

*(The requirements for a Qualifying Facility" are set forth in Part 292 of the Federal Energy Regulatory Commission's (FERC) regulations which relate to the Public Utilities Regulatory Policies Act of 1978. SCE can provide a copy of this document to you if necessary.)*

*If you answered "no" to question 3.1, STOP! You cannot apply for interconnection with this form. Please contact SCE at the number listed below for additional information.*

3.1.1 If you are entitled to sell surplus energy to SCE from your Qualifying Facility, how many kWh do you expect to sell each year?

kWh

3.2 *If you answered yes to Question 3, please skip question 3.2. It does not apply.*  
 If your Generating Facility will operate in a non-exporting mode (you will use all of the electrical energy produced by your Generating Facility at your location), which if the following four options will you use to ensure that you do not export energy to SCE?

3.2.1 Option 1: Provide reverse power protection

Yes

3.2.2 Option 2: Provide under power protection  
*(Similar to reverse power protection but measures incoming energy)*

Yes

3.2.3 Option 3: Limit the incidental export of power\*

Yes

*\*If you select this Option 3, your installation must meet all of the following conditions:*

- a. *The aggregate nameplate capacity of the Generating Facility must be less than or equal to 25% of the nominal ampere rating of the service entrance equipment serving your facility.*
- b. *The total aggregate nameplate capacity of the Generating Facility must be less than or equal to the rating of the SCE transformer serving your facility.*  
*Note: This restriction does not apply to customers taking primary service.*
- c. *Your Generating Facility must be certified as Non-Islanding*

3.2.4 Option 4: The nameplate rating of the Generating Facility will not exceed 50% of the host facility's minimum electrical load.

Yes

3.2.5 If Option 4 is selected, what is the minimum load of the host facility?

*Min. Load kW*

4. Operational Information

4.1 What mode of operation do you plan for your Generating Facility?  
 Check all that apply.

a. As available  
*(Wind, solar and hydro systems only)*

Yes

b. Peak shaving  
*(Operated during peak energy price periods only)*

Yes

c. Demand management  
*(Operated in connection with a demand management system)*

Yes

d. Prime power  
*(Base loaded – operated continuously)*

Yes

e. Combined Heat and Power  
*(Cogeneration – operated to serve thermal demands)*

Yes

f. Load Following

Yes

g. Other: Describe

Yes

- 4.2 What is the estimated annual kilo-watt hour production of your Generating Facility?   
Annual kWh
5. Do any of your generating units start by using grid power (motoring)?  Yes  No  
*If you answered "no" to question 5, please skip to question 6.  
If you answered "yes" to question 5, please answer the following questions.*
- 5.1 What is the In-rush Current of each unit that starts by "motoring?"   
*Note: If you don't know, please contact your generator manufacturer.*  
Inrush Amps
- 5.2 What is the continuous ampere rating of your service entrance equipment?   
*Note: If you don't know, please contact your electrical contractor/installer.*  
Amps
6. Is the Gross Nameplate Rating of your Generating Facility 11kVA or less?  Yes  No  
*If the answer to question 6 is "yes", please skip to question 8.*
- 7.(a) What is the short circuit contribution of the proposed Generating Facility at the generator's terminals?   
*If your Generating Facility is not Certified or if this information is not listed in the Certificate, you must also answer Question 6 of Part 2,*  
Amps
- 7.(b) What is the short circuit contribution of the proposed Generating Facility at the Point of Common Coupling with SCE's Distribution System?   
*This value should be based on your answer to 7.a, adjusted for site/facility impedance to the Point of Common Coupling with SCE's Distribution System.*  
Amps
- 7.1 Is your proposed Generating Facility system connected to SCE's Distribution System through a transformer shared by other Customers?  Yes  No  
*Note: If you are uncertain about the answer to Question 7.1 SCE will assist you.  
If the answer to question 7.1 is "yes", please answer question 7.2.  
If the answer to question 7.1 is "no", please continue to question 8.*
- 7.2 What are the interrupting ratings of the other Customers' electric service panels? (call for SCE assistance)   
Amps
8. Will you install a dedicated transformer in connection with the installation of your proposed Generating Facility?  Yes  No  
*If the answer to question 8. is "yes", please answer question 8.1.  
If the answer to question 8. is "no", please continue to question 9.*

- 8.1 If you are adding a dedicated transformer, please provide the following information:   
*kVA Rating*
- 8.1(a) The primary voltage of the transformer   
*Primary Volts*
- 8.1(b) The secondary voltage of the transformer   
*Secondary Volts*
- 8.1(c) The rated impedance (%) of the transformer   
*Impedance*
9. What is the estimated date of initial operation for your Generating Facility?   
*Date of Operation*
10. The following attachments must accompany Part 1 of the application when you submit it.
- 10.1 Single-line Drawing (*A sample Single-line Diagram is included with this application for your reference.*)   
*Included*
- 10.2 Site plan drawing showing the location and arrangement of the major equipment (facility layout).   
*Included*
11. Please check this box if you wish the SCE to bypass its Initial Review and to provide you with a cost-estimate for the Interconnection Study:   
*Provide Cost Estimate*

**When you have completed this application, you may print and mail it to:**

Tom Dossey or Gerry Torribio  
2244 Walnut Grove Avenue  
P.O. Box 800  
Suite 490  
Rosemead, CA 91770  
Phone: 626-302-8242 (Tom) or 626-302-9669 (Gerry)  
Fax: 626-302-9622  
E-Mail: thomas.dossey@sce.com or gerome.torribio@sce.com

**All Applications must be accompanied by the Application Fee. (See instructions on page 1)**

**PART 2 To be filled out for all non-certified generating units or components**

**Generating Unit Information**

Please fill out a separate Part 2 form for each non-certified non-preapproved generating unit .

1. Is the generating unit a Pre-packaged prime mover/generator/inverter/controller system?  Yes  No

*If your answer to Question 1 is "no", please skip to question 2.  
If your answer to Question 1 is "yes", please answer the following questions:*

1.1 Who is the manufacturer of the generating unit?

*Manufacturer Name*

1.2 What is the model number?

*Model*

2. What is the Gross Nameplate Rating in kVA?

*Gross kVA*

2.1 What is the Net Nameplate Rating in kVA?  
*Note: Net kVA is net of auxiliary loads.*

*Net kVA*

3. Prime Mover Information  
What is the prime mover technology? *(Please check all appropriate boxes.)*

IC Engine

Microturbine

PV

Fuel Cell

Hydro

Wind

Comb. Turbine

Steam Turbine

Other

*(Please describe)*

3.1 Who is the prime mover manufacturer?

*Manufacturer Name*

3.2 What is the prime mover model number?

*Model Number*

4. Generator/Inverter Information

What is the generator/inverter technology? *Please check all appropriate boxes.*

- Inverter
- Induction
- Synchronous
- Single phase
- Three phase

4.1. Who is the generator/inverter manufacturer?

*Manufacturer Name*

4.2. What is the generator/inverter model number?

*Model Number*

5. What is the power factor range of the generator/inverter?

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*Min. Max.*

5.1. Is the power factor range adjustable?

<input type="checkbox"/>	<input type="checkbox"/>
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*Yes No*

*Note: When operating in parallel with SCE's Distribution System, generating units are required to operate in power factor regulation mode (not in voltage regulation mode).*

6. What is the short circuit current capability of the generating unit and associated devices?

6.1. What is the short circuit current capability of the Generating Facility at the Generating Facility's terminals?

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*Amps Nominal Voltage*

*If your Generating Facility consists of just one generating unit, please skip to question 6.3.*

6.2. If your Generating Facility will consist of more than one generating unit, what is the maximum number of units that will operate simultaneously?

*Number of Units*

6.3. During a distribution system fault, what is your short circuit contribution, in amps?

*Amps*

*Note: To answer this question, you will need to gather the following from the Generating unit's manufacturer:*

- 1) *The fault duration curve and fault current interrupt time of the interrupting device; or*
- 2) *"Synchronous" machines only, the greater of*
  - a) *The fault current interrupt time of the interrupting device; including the Direct axis synchronous reactance (Xd), Direct axis transient reactance (X'd), and Direct axis subtransient reactance (X''d); or*
  - b) *The inertia constant of prime mover or Generator, including the Direct*

*axis synchronous reactance ( $X_d$ ), Direct axis transient reactance ( $X'd$ ), and the Direct axis subtransient reactance ( $X''d$ ).*

7. You must include the following documents with your submission of this Part 2 of your application:
- 7.1 Complete and accurate protection diagrams including single-line meter relay and logic diagrams.  *Included*
- 7.2 A description of the proposed protection schemes and description of operations.  *Included*
- 7.3 Maintenance plans for the interconnection protective devices and interconnection interrupting devices.  *Included*
- 7.4 Any other documentation and certifications that may assist in SCE in approving your generating unit for interconnection with SCE's Distribution System.  *Included*

**When you have completed this application, you may print and mail it to:**

Tom Dossey or Gerry Torribio  
2244 Walnut Grove Avenue  
P.O. Box 800  
Suite 490  
Rosemead, CA 91770  
Phone: 626-302-8242 (Tom) or 626-302-9669 (Gerry)  
Fax: 626-302-9622  
E-Mail: thomas.dossey@sce.com or gerome.torribio@sce.com

**All Applications must be accompanied by the Application Fee. (See instructions on page 1)**

February 7, 2001

California Public Utilities Commission  
505 Van Ness Avenue, Room 4005  
San Francisco, CA 94102

Attn: Jerry Royer  
Energy Division

Re: Substitute Sheets for Advice Letter 1498-E-A

Dear Mr. Royer:

Enclosed are an original and six copies of Attachment A and substitute Sheet Nos. 27958-E\*<sup>1</sup>, 27959-E\*, and 27960-E\* for Advice Letter 1498-E. The enclosed substitute sheets are necessary to correct a grammatical error in Rule 21, Section J, Part 3. In three different places in Section J, Part 3, the following sentence appears: "A description of key aspects of these procedures is provided in the testing procedures section of this Appendix." In each occurrence of this sentence the word "Appendix" (the last word in the sentence) is changed to "Section."

Please replace the enclosed sheets in your master Advice Letter 1498-E-A file. If you have any questions, please contact René Vazquez at (626) 302-2077.

Sincerely,

Enclosures

1498EASub.doc

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<sup>1</sup> Asterisk denotes a substituted sheet.