



**ELECTRIC SAMPLE FORM 79-1162
RULE 21 DETAILED STUDY AGREEMENT**

Sheet 1

**Please Refer to Attached
Sample Form**

THIS DETAILED STUDY AGREEMENT (“AGREEMENT”) is made and entered into this ___ day of _____, 20___ by and between _____, a _____ organized and existing under the laws of the State of _____, ("Applicant,") and Pacific Gas and Electric Company, a corporation, existing under the laws of the State of California, ("Distribution Provider "). Applicant and Distribution Provider each may be referred to as a "Party," or collectively as the "Parties."

RECITALS

WHEREAS, Distribution Provider, as a public utility in the State of California subject to the jurisdiction of the California Public Utilities Commission (“Commission”), provides non-discriminatory access to generating facilities wishing to interconnect to its Distribution System or Transmission System under the provisions of Rule 21 of its Tariffs; and

WHEREAS, Applicant is proposing to develop a Generating Facility or generating capacity addition to an existing Generating Facility consistent with the Interconnection Request submitted by Applicant dated _____ ; and

WHEREAS, Applicant desires to interconnect the Generating Facility with the Distribution System or Transmission System pursuant to the Independent Study Process, or Distribution Group Study Process [check one]; and

WHEREAS, the Applicant has requested Distribution Provider to perform Interconnection Studies to assess the system impact of interconnecting the Generating Facility to the Distribution System, Transmission System and any Affected Systems and to specify and estimate the cost of the equipment, engineering, procurement and construction work needed on the Distribution Provider’s electric system to physically and electrically connect the Generating Facility to the Distribution Provider’s Distribution System or Transmission System in accordance with Good Utility Practice;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agreed as follows:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated in Distribution Provider's Rule 21.
- 2.0 Applicant elects and Distribution Provider shall cause to be performed Interconnection Studies consistent with Section F.3.b of Rule 21 for Interconnection Requests evaluated under the Independent Study Process or Section F.3.c of Rule 21 for Interconnection Requests evaluated under the Distribution Group Study Process.
- 3.0 The scope of the Interconnection Studies shall be subject to the assumptions set forth in Attachments A and, if applicable, Attachment B to this Agreement.

† Information collected on this form is used in accordance with PG&E’s Privacy Policy. The Privacy Policy is available at pge.com/privacy.



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- 4.0 The Interconnection Studies will be based upon the technical information provided by Applicant in the Interconnection Request, as may be modified as the result of the Scoping Meeting, or other permitted modifications in accordance with Section F.3.b or Section F.3.c of Rule 21, as applicable. Any technical data supplied by Applicant is assumed to be complete and accurate. Distribution Provider is not required to verify any information or data provided by Applicant as part of the Interconnection Studies. Distribution Provider reserves the right to request additional technical information from Applicant as may reasonably become necessary consistent with Good Utility Practice during the course of the Interconnection Studies. Applicant shall provide the requested technical information to Distribution provider within thirty (30) Calendar Days of a written request for such information. Distribution Provider may suspend the Interconnection Studies until such information is provided and the due date for completion of the Interconnection Studies may be adjusted to reflect the suspension period. If Applicant modifies its designated Point of Interconnection, Interconnection Request, or the technical information provided therein is modified, the Interconnection Studies may be modified as specified in Rule 21.
- 5.0 The Interconnection Study report for each Interconnection Study shall provide the information specified in Rule 21.
- 6.0 For Interconnection Requests evaluated under the Independent Study Process, unless the Parties agree to waive the Facilities Study in accordance with Section F.3.b.vii of Rule 21, Applicant shall submit to the Distribution Provider (1) the data required by the Distribution Provider within (i) five (5) Business Days following the Interconnection System Impact Study results meeting, or (ii) within twenty-five (25) Business Days of the issuance of the final Interconnection System Impact Study report if no Interconnection System Impact Study results meeting is held, and (2) the Facilities Study deposit, if required, within (i) ten (10) Business Days following the Interconnection System Impact Study results meeting, or (ii) within twenty five (25) Business Days of the issuance of the final Interconnection System Impact Study report if no Interconnection System Impact Study results meeting is held, in accordance with Section F.3.b.vi of Rule 21.

For Interconnection Requests evaluated under the Distribution Group Study Process, unless the Parties agree to waive the DGS Phase II Interconnection Study in accordance with Section F.3.c.ix of Rule 21, Applicant shall submit to the Distribution Provider (1) the data required by the Distribution Provider within (i) five (5) Business Days following the DGS Phase I Interconnection Study results meeting, or (ii) within thirty (30) Calendar Days of the issuance of the final DGS Phase I Interconnection Study report if no DGS Phase I Interconnection Study results meeting is held, and (2) the DGS Phase II Interconnection Study deposit, if



required, within thirty (30) Business Days of the issuance of the final DGS Phase I Interconnection Study report in accordance with Section F.3.c.viii of Rule 21.

- 7.0 Upon completion of the Interconnection Studies, Distribution Provider shall charge and Applicant shall pay the actual costs of the Interconnection Studies pursuant to Section E.3.a of Rule 21.
- 8.0 The Distribution Provider may provide copies of the Interconnection Studies results to the CAISO, an Affected System Operator and the Western Electricity Coordinating Council. Requests for review and input from any Affected System Operators or the Western Electricity Coordinating Council may arrive at any time prior to interconnection.
- 9.0 Substantial portions of technical data and assumptions used to perform the Interconnection Studies, such as system conditions, existing and planned generation, and unit modeling, may change, other than changes described in Section 4, after the Distribution Provider provides the Interconnection Studies results to the Applicant. Interconnection Studies results will reflect available data at the time the Distribution Provider provides the Interconnection Study reports to the Applicant. If new data is provided after Distribution Provider has begun work on the Interconnection Studies, Distribution Provider is not responsible for updating the Interconnection Studies to reflect new information or a change in information used in the Interconnection Studies. Distribution Provider may determine that a new study, or revision or reevaluation of the Interconnection Studies is required. In that event, Applicant shall either enter into a separate agreement providing that it shall reimburse Distribution Provider for the costs of such new or revised study or its Interconnection Request will be deemed withdrawn. The Distribution Provider shall not be responsible for any additional costs, including, without limitation, costs of new or additional facilities, system upgrades, or schedule changes, that may be required as a result of changes in such data and assumptions.
- 10.0 The Distribution Provider shall maintain records and accounts of all costs incurred in performing the Interconnection Studies in sufficient detail to allow verification of all costs incurred, including associated overheads. The Applicant shall have the right, upon reasonable notice, at the Distribution Provider's offices and at its own expense, to audit the Distribution Provider's records as necessary and as appropriate in order to verify costs incurred by the Distribution Provider. Any audit requested by the Applicant shall be completed, and written notice of any audit dispute provided to the Distribution Provider, within one hundred eighty (180) Calendar Days following receipt by the Applicant of the Distribution Provider's notification of the final costs of the Interconnection Studies.



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- 11.0 In accordance with Section F.6 of Rule 21, the Applicant may withdraw its Interconnection Request at any time by written notice to the Distribution Provider. Upon receipt of such notice, this Agreement shall terminate, subject to the requirements of Section D.7 and E.3.a of Rule 21.
- 12.0 This Agreement shall become effective upon the date the fully executed Agreement and the Detailed Study deposit as required by Section E.3.a are received by the Distribution Provider. If the Distribution Provider does not receive the fully executed Agreement and Detailed Study deposit within thirty (30) Business Days after the scoping meeting pursuant to Section F.3.b of Rule 21 for Interconnection Requests evaluated under the Independent Study Process or, in the case of Interconnection Requests evaluated under the Distribution Group Study Process, the earlier of (i) thirty (30) Business Days after the scoping meeting or (ii) the start date of the DGS Phase I Interconnection Study pursuant to F.3.c of Rule 21, then the Interconnection Request will be deemed withdrawn.
- 13.0 Miscellaneous.
- 13.1 **Dispute Resolution.** Any dispute arising out of or in connection with the Agreement shall be subject to the dispute resolution provisions of Rule 21.
- 13.2 **Confidentiality.** Confidential Information shall be treated in accordance with Section D.7 of Rule 21.
- 13.3 **Binding Effect.** This Agreement and the rights and obligations hereof, shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.
- 13.4 **Conflicts.** In the event of a conflict between the body of this Agreement and any attachment, appendices or exhibits hereto, the terms and provisions of the body of this Agreement shall prevail and be deemed the final intent of the Parties.
- 13.5 **Rules of Interpretation.** This Agreement, unless a clear contrary intention appears, shall be construed and interpreted as follows: (1) the singular number includes the plural number and vice versa; (2) reference to any person includes such person's successors and assigns but, in the case of a Party, only if such successors and assigns are permitted by this Agreement, and reference to a person in a particular capacity excludes such person in any other capacity or individually; (3) reference to any agreement (including this Agreement), document, instrument or tariff means such agreement, document, instrument, or tariff as amended or modified and in effect from time to time in accordance with the terms



thereof and, if applicable, the terms hereof; (4) reference to any applicable laws and regulations means such applicable laws and regulations as amended, modified, codified, or reenacted, in whole or in part, and in effect from time to time, including, if applicable, rules and regulations promulgated thereunder; (5) unless expressly stated otherwise, reference to any Article, Section or Appendix means such Article or Section of this Agreement or such Appendix to this Agreement, or such Section of Rule 21 or such Appendix to Rule 21, as the case may be; (6) “hereunder”, “hereof”, “herein”, “hereto” and words of similar import shall be deemed references to this Agreement as a whole and not to any particular Article Section, or other provision hereof or thereof; (7) “including” (and with correlative meaning “include”) means including without limiting the generality of any description preceding such term; and (8) relative to the determination of any period of time, “from” means “from and including”, “to” means “to but excluding” and “through” means “through and including”.

- 13.6 Entire Agreement. This Agreement, including all Appendices and Schedules attached hereto, constitutes the entire agreement between the Parties with reference to the subject matter hereof, and supersedes all prior and contemporaneous understandings or agreements, oral or written, between the Parties with respect to the subject matter of this Agreement. There are no other agreements, representations, warranties, or covenants which constitute any part of the consideration for, or any condition to, any Party’s compliance with its obligations under this Agreement.
- 13.7 No Third Party Beneficiaries. This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and, where permitted, their assigns.
- 13.8 Waiver. The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, or duty of this Agreement. Termination or default of this Agreement for any



reason by the Applicant shall not constitute a waiver of the Applicant's legal rights to obtain an interconnection from the Distribution Provider. Any waiver of this Agreement shall, if requested, be provided in writing.

- 13.9 Headings. The descriptive headings of the various Articles and Sections of this Agreement have been inserted for convenience of reference only and are of no significance in the interpretation or construction of this Agreement
- 13.10 Multiple Counterparts. This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.
- 13.11 Amendment. The Parties may by mutual agreement amend this Agreement by a written instrument duly executed by both of the Parties.
- 13.12 Modification by the Parties. The Parties may by mutual agreement amend the Appendices to this Agreement by a written instrument duly executed by both of the Parties. Such amendment shall become effective and a part of this Agreement upon satisfaction of all applicable laws and regulations.
- 13.13 No Partnership. This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon any Party. No Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, another Party.
- 13.14 Assignment. This Agreement may be assigned by a Party only with the written consent of the other Party; provided that a Party may assign this Agreement without the consent of the other Party to any Affiliate of the assigning Party with an equal or greater credit rating and with the legal authority and operational ability to satisfy the obligations of the assigning Party under this Agreement; and provided further that the Applicant shall have the right to assign this Agreement, without the consent of the other Party, for collateral security purposes to aid in providing financing for the Generating Facility, provided that the Applicant will require any secured party, trustee or mortgagee to notify the other Party of any such assignment. Any financing arrangement entered into by the Applicant pursuant to this Section will provide that prior to or upon the exercise of the secured Party's, trustee's or mortgagee's assignment rights pursuant to



said arrangement, the secured creditor, the trustee or mortgagee will notify the other Party of the date and particulars of any such exercise of assignment right(s). Any attempted assignment that violates this Section is void and ineffective. Any assignment under this Agreement shall not relieve a Party of its obligations, nor shall a Party's obligations be enlarged, in whole or in part, by reason thereof. Where required, consent to assignment will not be unreasonably withheld, conditioned or delayed.

- 13.15 This Agreement is subject to the applicable provisions of PG&E's tariffs, including Rule 21, as filed and authorized by the California Public Utilities Commission ("CPUC"). This Agreement shall at all times be subject to such changes or modifications by the CPUC, as the CPUC may, from time to time, direct in the exercise of its jurisdiction.



IN WITNESS THEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

[Insert name of Applicant]

By: _____

Printed Name: _____

Title: _____

Date: _____

Pacific Gas and Electric Company

By: _____

Printed Name: _____

Title: _____

Date: _____



RULE 21 DETAILED STUDY AGREEMENT

ATTACHMENT A

ASSUMPTIONS USED IN CONDUCTING THE INTERCONNECTION SYSTEM IMPACT STUDY OR DGS PHASE I INTERCONNECTION STUDY

The Interconnection System Impact Study or DGS Phase I Interconnection Study will be based upon the information set forth in the Interconnection Request and agreed upon in the Scoping Meeting held on _____, subject to any modifications in accordance with Section F.3.b or Section F.3.c, as applicable, of Rule 21, and the following assumptions:

Designation of Point of Interconnection and configuration to be studied.

Additional Comments:



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ATTACHMENT B

DATA FORM TO BE PROVIDED BY APPLICANT

This Attachment B is to be used when Applicant opts for a Rule 21 interconnection at transmission voltage.

If applicable, this Attachment is to be provided prior to the commencement of the Interconnection Facilities Study or DGS Phase II Interconnection Study.

Generating Facility size (MW): _____

Provide location plan and simplified one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.

One set of metering is required for each generation connection to the new ring bus or existing Distribution Provider station. Number of generation connections: _____

On the one line diagram indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)

On the one line diagram indicate the location of auxiliary power. (Minimum load on CT/PT)
Amps

Will an alternate source of auxiliary power be available during CT/PT maintenance?
 Yes No

Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation? Yes No (Please indicate on one line diagram).

What type of control system or PLC will be located at Applicant's Generating Facility?

What protocol does the control system or PLC use?



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ATTACHMENT B

Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

Physical dimensions of the proposed interconnection station:

_____ Bus length
from generation to interconnection station:

Line length from interconnection station to Distribution Provider's transmission line.

Tower number observed in the field. (Painted on tower leg)* _____

Number of third party easements required for transmission lines*:

* To be completed in coordination with Distribution Provider.

Is the Generating Facility in the Distribution Provider's service area?

____ Yes ____ No Local provider: _____

Please provide proposed schedule dates:

Environmental survey start: Date _____

Environmental impact report submittal: Date _____

Procurement of project equipment: Date _____

Begin Construction Date: _____

Generator step-up transformer
receives back feed power Date: _____

Generation Testing Date: _____

Commercial Operation Date: _____