



Electric Sample Form No.79-1174-03G
Interconnection Application, Attachment G, Fuel Cell Technology

Sheet 1

**Please Refer to Attached
Sample Form**

(Continued)

Advice 7618-E
Decision

Issued by
Shilpa Ramaiya
Vice President
Regulatory Proceedings and Rates

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<i>Resolution</i>	E-5296



INTERCONNECTION APPLICATION (Form 79-1174-03)

ATTACHMENT G

FUEL CELL TECHNOLOGY

Please complete the following table for the specific generator technology indicated.

Instructions				
Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>Please indicate the number of each "type" and quantity of Generator being installed.</p> <p>Be sure all Generators classified as one "type" are identical in all respects.</p> <p>If only one type of Generator is to be used, only one column needs to be completed.</p>				
<p>A - Generator/Inverter Manufacturer</p> <p>Enter the brand name of the Generator.</p>				
<p>B - Generator/Inverter Model</p> <p>Enter the model name or number assigned by the manufacturer of the Generator.</p>				
<p>C - Generator/Inverter Software Version</p> <p>If this Generator's control and or protective functions are dependent on a software program supplied by the manufacturer of the equipment, please provide the version or release number for the software that will be used.</p>				
<p>D - Is the Generator/Inverter certified?</p> <p>Applicant has verified that all major solar system components are on the verified equipment list maintained by the California Energy Commission and other equipment, as determined by PG&E, has been verified by the customer as having safety certification from a nationally recognized testing laboratory.</p> <p>See PG&E's Rule 21, Section L for additional information regarding Generator certification.</p> <p>For Net Billing Customers all major solar system components shall comply with Electric Rule 21 Section L.2-L.4 and Section L.7</p>	<p>____ Yes</p> <p>____ No</p>	<p>____ Yes</p> <p>____ No</p>	<p>____ Yes</p> <p>____ No</p>	<p>____ Yes</p> <p>____ No</p>



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Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
E – Anti-Islanding Detection Method Please select an Anti-Islanding Detection Method Group 1 – Frequency Shift with continuous positive frequency feedback Group 2A – Frequency Shift with discontinuous or stepped positive frequency feedback Group 2B – Frequency Shift similar to Group 2A except with a dead zone around 60Hz Group 2C – Frequency shift with unidirectional frequency feedback Group 3 – Monitors change of impedance Group 4 – Monitors shift at a harmonic frequency (multiple of the fundamental) Group 5 – Passive methods like rate of change of frequency, vector shift Group 6 – Produces negative sequence current and monitor voltage	Group 1 ____ Group 2A ____ Group 2B ____ Group 2C ____ Group 3 ____ Group 4 ____ Group 5 ____ Group 6 ____	Group 1 ____ Group 2A ____ Group 2B ____ Group 2C ____ Group 3 ____ Group 4 ____ Group 5 ____ Group 6 ____	Group 1 ____ Group 2A ____ Group 2B ____ Group 2C ____ Group 3 ____ Group 4 ____ Group 5 ____ Group 6 ____	Group 1 ____ Group 2A ____ Group 2B ____ Group 2C ____ Group 3 ____ Group 4 ____ Group 5 ____ Group 6 ____
F –Volt-Var Smart Inverter Setting <i>If proposing non-default inverter settings, please provide:</i> Power Factor Value Inverter Power Factor Volt-Var Voltage Values Volt-Var Reactive Values Volt-Watt Real Power Values	V1 ____ Q1 ____ V1 ____ Q1 ____ P1 ____	V2 ____ Q2 ____ V2 ____ Q2 ____ P2 ____	V3 ____ Q3 ____ V3 ____ Q3 ____ P3 ____	V4 ____ Q4 ____ V4 ____ Q4 ____ P4 ____
G - Generator Design Please indicate the design of each Generator. Designate “Inverter” anytime an inverter is used as the interface between the Generator and the electric system regardless of the primary power production/storage device used.	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter	____ Synch ____ Induct. ____ Inverter



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Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
H - Gross Nameplate Rating (kVA) This is the capacity value normally supplied by the manufacturer and stamped on the Generator's nameplate. This value is not required where the manufacturer provides only a kW rating. However, where both kVA and kW values are available, please indicate both.				
I - Operating Voltage This value should be the voltage rating designated by the manufacturer and used in this Generating Facility. Please indicate phase-to-phase voltages for 3-phase installations. See PG&E's Rule 21, Section H.2.b. and Table H.1., for additional information.				
J - Power Factor Rating This value should be the nominal power factor rating designated by the manufacturer for the Generator. See PG&E's Rule 21, Section H.2.i. for additional information.				
K - PF Adjustment Range Where the power factor of the Generator is adjustable, please indicate the maximum and minimum operating values. See PG&E's Rule 21, Section H.2.i.				
L - Wiring Configuration Please indicate whether the Generator is a single-phase or three-phase device. See PG&E's Rule 21, Section H.3.				
M - (MP) 3-Phase Winding Configuration (Choose One) For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye	___ 3 Wire Delta ___ 3 Wire Wye ___ 4 Wire Wye



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Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
<p>N - (MP) Neutral Grounding System Used (Choose One)</p> <p>Wye connected generating units are often grounded – either through a resistor or directly, depending upon the nature of the electrical system to which the Generator is connected.</p> <p>If the grounding method used at this facility is not listed, please attach additional descriptive information.</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor</p> <p>___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor</p> <p>___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor</p> <p>___ Ohms</p>	<p>___ Ungrounded</p> <p>___ Solidly Grounded</p> <p>___ Ground Resistor</p> <p>___ Ohms</p>
O - Short Circuit Current Produced by Generator	___ (Amps)	___ (Amps)	___ (Amps)	___ (Amps)
<p>P – Prime Mover Type</p> <p>Please indicate the type and fuel used as the prime mover or source of energy for the Generator.</p> <p>1 = Natural Gas 2 = Diesel Fueled 3 = Other Fuel</p>	1 2 3	1 2 3	1 2 3	1 2 3
<p>Q - AC Disconnect</p> <p>For systems requiring an AC Disconnect only, please include the requested information about the AC Disconnect.</p> <p>See PG&E's Rule 21, Section H.1.d</p> <p>Located within 10 feet of the PG&E meter?</p>	<p>___ Manufacturer</p> <p>___ Model #</p> <p>___ Rating (amps)</p> <p>___ Yes ___ No</p>	<p>___ Manufacturer</p> <p>___ Model #</p> <p>___ Rating (amps)</p> <p>___ Yes ___ No</p>	<p>___ Manufacturer</p> <p>___ Model #</p> <p>___ Rating (amps)</p> <p>___ Yes ___ No</p>	<p>___ Manufacturer</p> <p>___ Model #</p> <p>___ Rating (amps)</p> <p>___ Yes ___ No</p>
<p>R - Lineside Tap</p> <p>Where is the point of interconnection in relation to the main breaker?</p> <p>PG&E has special requirements for a lineside tap.</p> <p>Contact PG&E at: Rule21Gen@PGE.com for more information.</p>	<p>___ Customer side</p> <p>___ PG&E side</p>	<p>___ Customer side</p> <p>___ PG&E side</p>	<p>___ Customer side</p> <p>___ PG&E side</p>	<p>___ Customer side</p> <p>___ PG&E side</p>
<p>S – Warranty or Service Agreement</p> <p>Applicant has verified that (i) a warranty of at least 10 years has been provided on all equipment and on its installation, or (ii) have a 10-year service warranty or executed "agreement" ensuring proper maintenance and continued system performance.</p>	<p>___ Yes ___ No</p>	<p>___ Yes ___ No</p>	<p>___ Yes ___ No</p>	<p>___ Yes ___ No</p>



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Generator Information	Existing Generator type 1	Existing Generator type 2	New Generator type 1	New Generator type 2
T - Cogeneration Please indicate whether this Generating Facility meets the definition of cogeneration in PUC 216.6 (5% useful thermal and 42.5% efficient):	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
U - Distribution Interconnect Handbook (DIH) and Greenbook Requirements Does this interconnection meet the DIH and Greenbook Requirements	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
V - Gas Clearance Requirements Certify that this interconnection meets Greenbook Gas Clearance Requirements?	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No	____ Yes ____ No
W - Back-up Generator Operation Will the generator be operated as a back-up? If yes, please indicate control device.	____ Yes ____ No <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	____ Yes ____ No <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	____ Yes ____ No <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker	____ Yes ____ No <input type="checkbox"/> Automatic Transfer Switch <input type="checkbox"/> Contactor <input type="checkbox"/> Breaker
X - Limited Export Will the generator export be limited? If yes, please indicate how export will be limited.	____ Yes ____ No <input type="checkbox"/> Power Control System (PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	____ Yes ____ No <input type="checkbox"/> Power Control System (PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	____ Yes ____ No <input type="checkbox"/> Power Control System (PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter	____ Yes ____ No <input type="checkbox"/> Power Control System (PCS – Option 9) <input type="checkbox"/> Relay <input type="checkbox"/> Derated Inverter



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<p>W – PCS with Limited Generation Profile</p> <p>If project is using a Limited Generation Profile</p> <p>Select the proposed PCS make/model:</p> <p>If equipment is not listed in Distribution Provider's list of certified PCS, upload UL3141 certificates of compliance from the NRTL identifying that the proposed PCS has been certified under UL3141 with PEL:</p> <p>Indicate the PCS's controlled nameplate capacity (as provided in the NRTL testing reports)</p> <p>Indicate the PCS's Maximum Steady State percentage (as provided in the NRTL testing reports)</p>	<p>(Select from Utility's UL3141 PEL PCS approved list)</p> <p>_____ kW</p> <p>_____ %</p>	<p>(Select from Utility's UL3141 PEL PCS approved list)</p> <p>_____ kW</p> <p>_____ %</p>	<p>(Select from Utility's UL3141 PEL PCS approved list)</p> <p>_____ kW</p> <p>_____ %</p>	<p>(Select from Utility's UL3141 PEL PCS approved list)</p> <p>_____ kW</p> <p>_____ %</p>
<p>Z - Telemetry</p> <p>Will the Generating Facility Gross Nameplate Rating exceed 1 MW?</p> <p>If yes, please select a Telemetry Option.</p> <p>If one of the Customer-owned Telemetry options is selected, please identify the preferred Site Metering Arrangement.</p>	<p>_____ Yes _____ No</p> <p>_____ Customer-owned Telemetry - Gateway _____ Customer-owned Telemetry - Aggregator _____ Mini RTU</p> <p>_____ Customer-side net load metering _____ Replace PG&E meter with a Mark V meter and terminal block _____ Add terminal block to existing PG&E Mark V meter _____ Replace meter socket with dual-socket meter cabinet for installation of customer-owned meter _____ Install customer-owned meter in existing dual socket meter cabinet.</p>			