Appendix M: GENERATION INTERCONNECTION DATA SHEET

1.	1. PROJECT NAME: STREET ADDRESS: CITY:	2. STATE : _	PROJEC PHONE:	T NUMBER: () ZIP CODE	 ::
3.	3. CONTRACTUAL NAME:STREET ADDRESS:CITY:	STATE:	PHONE:	()_ ZIP CODI	 E:
4.	4. DEVELOPER NAME:				
	STREET ADDRESS:	STATE: _	PHONE:	()_ ZIP CODE	 ::
5.	5. SITE OWNER NAME:				
	STREET ADDRESS:	STATE:	PHONE:	()_ ZIP CODE	— ::
6.	3. TYPE OF PROJECT:				
	Small Power Producer Biomass	Hydro Photovoltaic Recip. Engin Gas Turl	е		
7.	7. TYPE OF CONTRACT BEING CONSIDERED:	S.O.1		S.O.3	
	Surplus Energy Output Small Power Output Will Negotiate For			ith Parallel A	greement
8.	B. WILL THERE BE REDUCED GENERATOR OL	JTPUT? _	Y	′ES	NO
	IF YES,kW	F	ROM	TO	
9.	9. a. EXISTING PG&E PREMISES AND ACCOU	INT NUMBERS INTE	ERCONNE	CTED:	
	PREMISES	ACCOUNT			

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10.	MAXIMUM GENERATOR POWER DELIVERED TO PG&E AT INTERCONNECTION POINT:				
	a. Generator rated orb. Less generator auxc. Maximum power dd. Load to be servede. Existing load being	xiliary load: elivered to PG&E: when generator is OFI	Ma F:	ated Output kW + Auxiliaries kW ax Delivered kW = Load kW	
11.	THE ANTICIPATED O	PERATION DATE: _			
12.	DO YOU PLAN ANY C	THER POWER GENE	ERATION AT THIS SITE	??YESNO	
13.	GENERATOR				
	a. Size:	kW:	KVA:	Power Factor (%):	
	b. Type:	Induction:	Synchronous: _	D.C. with Inverter:	
	Synchronizing:	Auto Manı	ual Relay S	Supervision: Yes No	
	c. Voltage:	Output	Interconnection		
	d. Phase:	1φ	Зф		
	e. Connection:	Delta	Grounded WYE	Ungrounded	
*	f. Inertia Constant:	lb-	-ft² (when available)		
14.	PROVIDE PROPOSED GENERATOR OPERATING SCHEDULE (Total kWhrs):				
	January February March April		June	September October November December	
	PROVIDE PROPOSED AVERAGE PRODUCTION kWhrs AS REQUESTED:				
	Daily: k\	Vh Monthly	:kWh	Yearly: kWh	
	Schedule Maintenance Shutdown:				
15.	ELECTRIC METERING	3 IS TO BE:	Primary	Secondary	
	Voltage	Pole Top	Switchboard Cus	stomer Owned Sup	
16.	GAS REQUIREMENTS	S: Volum	ne: MCFH	Pressure: PSIG	
	Operations:	Daily Hours	s:	Days Per Week:	
	Scheduled Shutdowns	:		·····	
17.	GENERATOR VOLTAGE REGULATION RANGE:				
	GENERATOR POWER FACTOR REGULATION RANGE:				

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GENERATOR SHORT CIRCUIT DATA

(Final transformer and generator data must be based on actual test results for the particular transformer and generator. Typical values, calculated values or type testing are acceptable only if guaranteed in writing by manufacturer to be within +/- 3% accuracy):

	Synchronous Transient Subtransient Negative Sequence Zero Sequence	(Xd) (Xd) (Xd) (X ₂) (X ₀)	_% @ _% @ _% @	MVA MVA MVA	(T'd) SEC (T'd) SEC N/A N/A	
18.	OUTPUT: If the gener protection will be require				aggregate group), ground ground detection below:	
	*WYE GR	OUNDED/BROKEN ed	ROUND BANK WITH O I DELTA: Ground Bar WITH OVERCURREN	nk with Low Pick	up Overvoltage Relay Neutral of Dedicated	
	* Preferr	ed	R WITH VOLTAGE R		Transformer	
19.	WHO WILL SUPPLY TE		Customer:		PG&E:	
	IF CUSTOMER SUPPL	IED:	Primary Voltage:	S	ize: KVA	
		Sec	ondary Voltage:	_ Z	% Impedance	
gene		alculated values o			articular transformer and guaranteed in writing by	
	Available Taps:					
	Transformer Fuse:	Type: _	Size			
20.	WHAT TRANSFORMER CONNECTION IS DESIRED:					
		Delta	Grounded	Wye	Ungrounded Wye	
	PG&E Side					
	Generator Side					

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- 21. PROVIDE: Two original prints and one reproducible copy (no larger than 36" x 24") of the following:
 - a. SITE DRAWING to scale, showing generator location and point of interconnection with PG&E.
 - b. SINGLE LINE DIAGRAM, showing switches/disconnects of the proposed interconnection, including the required protection devices and breakers.
 - c. THREE LINE DIAGRAM, showing the proposed CTs and PTs as they are connected to the relays and meters.
 - d. DESCRIPTION of operation and elementary drawings, showing the synchronization (if appropriate), sand tripping of breakers by the required relays are desirable. (If not provided, they may be requested after approval of the single and three line diagrams.)

22.	BR	EAKER(s) EQUIPPED WITH:
	Un	dervoltage Release: Capacitor Trip: D.C. Trip: *(Not acceptable for use)
23.	DC	YOU WISH RECLOSE BLOCKING FOR INDUCTION GENERATORS? Yes No
		e test automatically. Sufficient capacitance may be on the line now, or in the future, and your generator y self-excite unexpectedly.
24.		OVIDE a list of relays, switches and revenue meters (if customer provided), disconnects, etc., specified meet PG&E requirements.
	Ple	ase include the following information:
	a.	Manufacturer's name and model number, with each device listed.
	b.	Range of available settings.
	C.	Proposed settings.
	d.	Ratio of associated current and potential transformers. If multi-ratio, state the available ratios and which one is proposed.
25.	RE	LAYS REQUIRED: See Power Producer's Interconnection Handbook, Section 3.
** 2		For generation greater than 1000 kW provide the following: Substation grounding drawings showing all ground connections. A list of the amount and location of the shunt capacitor compensation that will be provided (induction generators only).
estim reinfo trans	erationateo Prcei form	on customers are required to pay all costs to connect their projects to the PG&E system. Final d costs will have an accuracy of +10%. Unless otherwise requested, PG&E's study will include ments, modifications, and additions to PG&E's electrical and/or gas system. It will not include on-site ners, switchgear, or any other project substation facilities owned by the developer. PG&E's ents are summarized in greater detail in Electric Rule 21.
Com	nlote	ad Rv.