Cancelling

Cal. PUC Sheet No. Original

Cal. PUC Sheet No.

70959-E

Sheet 1

Generating Facility Material Modification Notification Worksheet Form 14-987

(Continued)

(To be inserted by utility)

4461-E Advice

19-03-013 Decision

Issued by Carla Peterman Senior Vice President

(To be inserted by Cal. PUC) Date Submitted Apr 8, 2021 Apr 8, 2021 Effective

Resolution E-5035



APPLICABILITY AND GUIDELINES

Pursuant to California Public Utilities Commission (CPUC) Decision 19-03-013, this worksheet shall be used to notify Southern California Edison Company (SCE) when Generating Facilities make qualifying material modifications (e.g., maintenance, retrofit).

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 Notification Worksheet or in SCE's CPUC-approved Electric Rule 21 (Rule 21).

- Upon meeting the qualifications for notification only, the customer may proceed with specific modifications to the Generating Facility and turn it on without waiting for SCE approval.
- As applicable, customer is solely responsible for obtaining approval from the local Authority Having Jurisdiction (AHJ) when making modifications to its Generating Facility. Customer is encouraged to contact its local AHJ to determine if a permit is required for the specific modifications.
- By submitting this notification worksheet, the customer affirms that they have met all requirements for notification-only eligible modifications as set forth in Rule 21.
- This Generating Facility Material Modification Notification Worksheet (Notification Worksheet) only applies to <u>inverter-based</u> Generating Facilities that are currently authorized by SCE to operate in parallel with the SCE electric system. All modifications to non-inverter based Generating Facilities require a new Interconnection Request.
- If the customer is replacing equipment with exact same equipment type (i.e., same make and model) or performing upgrades to inverter firmware that do not affect grid interactions, a Notification Worksheet is not required.

This Notification Worksheet does not authorize a customer to operate its Generating Facility in parallel with the SCE electric system unless the project meets the self-verification of material modification criteria herein. If the customer does not meet the self-verification qualification requirements, it must submit a new Interconnection Request to SCE in order to receive permission to safely interconnect and operate in parallel with SCE's electric system. Unauthorized Parallel Operation may be dangerous and may result in injury to persons and/or may cause damage to equipment and/or property for which the customer may be liable. All modifications to the Generating Facility must maintain and satisfy all of the requirements for SCE's Rule 21, interconnection program tariff (e.g., Net Energy Metering [NEM] and Interconnection Handbook and Electric Service Requirements (ESRs), as applicable. Please reference the documentation for more information regarding the interconnection of a Generating Facility to the SCE distribution system. Notification Worksheets submitted with blank fields (as applicable) will be deemed incomplete and will be returned for completion. The Applicant is also responsible for updating this Notification Worksheet, should the information submitted change between system design and installation.

□ Please check this box to indicate acknowledgment of the information provided above, and in this worksheet.

Overall steps regarding when a Notification Worksheet is required:

This Notification Worksheet is divided into four sections. Section one (1) determines if and when a Notification Worksheet submittal is required. If a Notification Worksheet is required per section (1), then sections 2, 3, and 4 must be completed by the Applicant and sent via email to Rule21@sce.com for Rule 21 interconnections or Customer.generation@sce.com for NEM interconnections. This Notification Worksheet must be submitted at least 2 business days prior to operation of the Generating Facility in parallel with the distribution system, until this Worksheet is replaced by an online submission option.

SECTION 1 – Material Modification Qualification Self-Check

A. This Application is for:						
A-1 Physical changes to an existing Generating Facility that currently has Permission to Operate						
(PTO) from SCE. If this box is selected, please continue to section B questions in the next box below.						
Examples include adding energy storage capacity, changing inverters, replacing equipment,						
changing load, and/or changing operations.						
$\underline{A-2} \square A$ new Generating Facility interconnection or changing inverter operating characteristics. If this box is selected, you do not meet the requirements for the use of this Notification Worksheet and must submit a new Interconnection Request.						
B. Inverter/Equipment Modification Section – Qualification when notification is required:						
B-1 Are you replacing inverter/equipment with the exact same inverter/equipment type (e.g. same make, model) or performing upgrades to inverter firmware that do not affect grid interactions? □ Yes – SCE notification is not required. You do not need to submit this form. □ No –Please continue to B-2.						
B-2 Are you replacing inverter with "Like-for-Like"* where Generating Facility output will not exceed the inverter nameplate capacity listed in the current and effective Interconnection Agreement (IA) and the operating mode is not being adjusted? □ Yes -Please skip to Section 1.C.						
□ No − Please continue B-3. * Like-for-Like definition: For inverters, Like-for-Like means certified, same nameplate or smaller, same fault current or smaller. For solar panels, Like-for-Like means certified, same CEC-AC rating of the system or smaller. For batteries, Like-for-Like means same or less kWh & kW rating, and same operating profile. For transformers, Like-for-Like means same connection type, same or smaller impedance and capacity.						
B-3 Are you replacing inverter with an inverter type that increases the inverter nameplate capacity listed in the current and effective IA? ☐ Yes − Please continue to B-4.						
B-4 If the inverter nameplate capacity is increasing, will certified power controls limit the real power output to the inverter capacity listed in the current and effective IA? Yes – Please continue to B-5.						
□ No – You must submit a new Interconnection Request. You do not need to submit this form.						
B-5 Is the Generating Facility nameplate change resulting in a capacity rating less than or equal to 100 kW? Yes -Please skip to section 1.C						
□ No – Please continue to B-6.						
<u>B-6</u> Is the Generating Facility nameplate change resulting in a capacity rating greater than 100 kW and the increase is greater than 110% of the original nameplate?						
☐ Yes - You must submit a new Interconnection Request. You do not need to submit this form.						
□ No - Please continue to section 1.C						



SECTION 1 – Material Modification Qualification Self-Check (Continued)

C. Storage Modification Section – Qualification when notification required:
<u>C-1</u> Are you adding storage to an existing Generating Facility that <u>does not</u> have storage?
☐ Yes – You must submit a new Interconnection Request. You do not need to submit this form.
□ No - Please continue to C-2.
<u>C-2</u> Are you adding storage capacity to a Generating Facility with an existing storage device without changing the inverter?
☐ Yes/No – Please continue to Section 2.

Mailing Address (if different from above)

GENERATING FACILITY MATERIAL MODIFICATION NOTIFICATION WORKSHEET

State Zip Code

For SCE Use Only								
Project Name:	Project ID:	Date Appli Received:	Date Application Received:		Date Application Screen		creened:	
SECTION 2 – Cu	stomer an	d Contracto	or/Iı	ıstalle	r In	formation		
A. Customer Electric This is the electric service ac system. The Customer Name electric bill.	count where the	Generating Facilit	y is in	terconnec				
Г								
SCE Service Account	# N	Meter #			Service Voltage of Main Panel (Volts)			
	'			<u> </u>		9		
			<u> </u>		<u> </u>	. A T	T 11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	D*41
Customer Name (i.e., name shown on SCE bill)			Customer (Service Account Holder) Title (e.g., Homeowner)					
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		0.04		G!			G	71 6 1
Generating Facility (S	ervice Accou	int) Street Add	ress	City			State	Zip Code
County								
· · · · · · · · · · · · · · · · · · ·								
					<u> </u>			
Customer Contact Name (if different from above)			Con	ipany N	ame	(if different from	Custome	r)
Phone (required)	F	ax (if applicable)				Customer E	mail (req	uired)
<u> </u>	•						-	

City



SECTION 2 – Customer and Contractor/Installer Information (Continued)

B. Contractor / Installer Information						
☐ Please check here if the	nis is a self-install	ation (i.e., ins	talled by Servic	e Account holder) (Proceed to	Section 1.C)
Contractor / Installer Co	Compa	ny Name			SLB # quired*)	
Contractor Mailing Add	ress		City		State	Zip Code
Phone (required)	Fax (if a	pplicable)		Contractor	Email (re	equired)



Section 3 – Generating Facility Description / Technical Information

The information provided in this section is for Generating Facilities that currently exist behind the same SCE meter and meet the qualifications in Section 1 of this worksheet.

ONLY WRITE DOWN WHAT IS DIFFERENT FROM WHAT IS LISTED IN THE CURRENT AND EFFECTIVE IA

3A. Which generating program tariff is the Generating Facility served under? (If NEMMT list								
all)		J	·	·				
3B. Is	3B. Is the Inverter(s) Certified as a Smart Inverter(s) in accordance with Rule 21 Section Hh by a							
N	ationally Recognized Testing Lab	oratory (NRTL)?						
☐ Yes								
□ No-	– Please explain:							
3C.	Existing Generating Facility Des	cription (see Appendix .	A for help)					
For unkn	nown fields, please indicate "0" and "N/A"	_						
		Inverter Repla	ced	New Inv	verter			
a)	Number of Inverters							
	modified/replaced							
b)	Replaced Inverter							
	Manufacturer(s)							
c)	Replaced Inverter Model							
4)	Number(s) Will the system use certified							
d)	controls? If yes, is this certified by							
	a NRTL (e.g. UL, CSA, etc.) to a							
	national certification standard?							
	Answer "Yes" or "No"							
e)	Gross Nameplate Rating (each)							
	(kVA)							
f)	Gross Nameplate Rating (each)							
	(kW)							
<u>g)</u>	CEC-AC Nameplate Rating (kW)							
<u>h)</u>	Net Nameplate Rating (kW)							
<u>i)</u>	Operating Voltage (Volts or kV)							
<u>j)</u>	Power Factor (PF) Rating (%)	П С' 1 Р		П с: 1 В				
k)	Wiring Configuration (Choose One)	☐ Single-Phase		☐ Single-Phase	☐ Three-Phase			
	2 Dhasa Winding Configuration	Three-Phase						
1)	3-Phase Winding Configuration (Choose One)	☐ 3 Wire Delta	□ 3	☐ 3 Wire Delta	☐ 3 Wire Wye			
	(Choose One)	Wire Wye □ 4	Wire	☐ 4 Wire Wye				
,	Nontral Cuanding Systems Hand	Wye	C - 1: .11	□ II	1 C - 1: 41 C 1 - 1			
m)	Neutral Grounding Systems Used (Choose One)	☐ Undergrounded ☐	-	☐ Undergrounded ☐	Solidly Grounded			
)	Short Circuit Current capable of	Grounded Ground	Kesistor	☐ Ground Resistor				
n)	being produced by Generating							
	Facility (Amps)							
	- were j (minps)	İ		İ				

Section 4 - Safety and Consumer Protection Acknowledgements

Safety and Consumer Protection Acknowledgements

A. Equipment Verification

□ For Applicants with Solar Generating Facilities - By checking this box, Applicant verifies that all major solar system components (including PV panels and other generation equipment, inverters and meters) are on a verified equipment list maintained by the California Energy Commission. This requirement is subject to additional verification by SCE.

Note: For all Generating Facilities, SCE may require the Applicant to verify that other equipment, as determined by SCE requirements, has safety certification from a NRTL.

B. Warranty Verification

By checking this box, Applicant verifies that a warranty of at least 10 years has been provided on all equipment and the installation of that equipment. In appropriate circumstances conforming to industry practice, satisfaction of this requirement may rely on manufacturers' warranties for equipment and separate contractors' warranties for workmanship (i.e., installation). Warranties or service agreements conforming to requirements applicable to the Self-Generation Incentive Program (SGIP) may be used to satisfy this requirement for Generating Facilities with technologies eligible for the SGIP. This requirement is subject to additional verification by SCE.

Appendix A – Instruct	ions for Completing Sections 3		
Manufacturer	Enter the brand name of the generator.		
Model Number	Enter the model number assigned by the manufacturer of the generator.		
CEC-AC Nameplate Rating	For NEM Generating Facilities, this value is the CEC-AC Net Nameplate Rating and is not the same as the Net Nameplate that accounts for auxiliary loads or station service loads. The calculations used are as follows:		
	Technology CEC-AC Nameplate Calculation Solar PV (Qty of Modules) x (PTC Rating) x (Inverter Efficiency %) / 1000 = kW Wind (Qty of Turbines) x (Power Output) x (Inverter Efficiency %) / 1000 = kW Fuel Cell (Qty of Cells) x (Rated Output) x (Inverter Efficiency %) / 1000 = kW		
Inverter Manufacturer	Enter the brand name of the inverter.		
Inverter Model Number	Enter the model number assigned by the manufacturer of the inverter.		
Module Manufacturer	Enter the brand name of the modules.		
Module Model Number	Enter the model number assigned by the manufacturer of the modules.		
Certified Controls NRTL Certification	Answer "yes" only if the generator manufacturer can or has provided certification data to allow certified controls to limit the real power output to the inverter listed size in the original agreement?		
Smart Inverter Certification	Answer "yes" only if the inverter manufacturer can or has provided certification data. Please see SCE's Rule 21, Section Hh for Smart Inverter requirements, and Section L for additional information regarding certification.		
Inverter Software Version	If the 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.		
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 provide both.		
Gross Nameplate Rating (kW)	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 kVA rating. However, where both kVA and kW values are available, please provide both. For NEM generating facilities, the "gross" value is DC power.		
 For NEM generating facilities, this value is the Nameplate Rating and is not the same as the Net Nameplate Rating (kW) For non-NEM generating facilities (e.g., those included in installation), this capacity value is determined by su "Auxiliary" or "Station Service" loads used to operate the Generating Facility. Applicants are not required to sup but, if it is not supplied, applicable Standby Charges matthe higher "gross" values. 			
Operating Voltage	This value should be the voltage rating designated by the manufacturer and used in the Generator. Please indicate phase-to-phase voltages for 3-phase installations. See SCE's Rule 21, Section H.2.b. for additional information.		



Appendix A – Instructions for Completing Sections 3 (Continued)					
Power Factor (PF) Rating	This value should be the nominal power factor rating designated by the manufacturer for the Generator. See SCE's Rule 21, Section H.2.i. For additional information.				
Wiring Configuration	Please indicate whether the Generator is a single-phase or three-phase device. See SCE's Rule 21, Section H.3.				
3-Phase Winding Configuration	For three-phase generating units, please indicate the configuration of the Generator's windings or inverter systems.				
Neutral Grounding System Used	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. If the grounding method used at this facility is not listed, please attach additional descriptive information.				
Short Circuit Current Produced by Generator	Please indicate the current each Generator can supply to a three-phase fault across its output terminals. For single phase Generators, please supply the phase-to-phase fault current. See manufacturer specifications or contact manufacturer for data.				