



CITY OF NEWPORT BEACH

COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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Photovoltaic (PV) Systems Standard Inspection Checklist

Make sure all PV system AC/DC disconnects and circuit breakers are in the **open** position and verify the following:

	YES	NO
1. All work done in a neat and workmanlike manner (CEC 110.12).		
2. PV module model number, quantity and location according to the approved plan. Module manufacturer, make, model and number, fire classifications of modules and brackets match the approved plans.		
3. Array mounting system and structural connections according to the approved plan. Modules are attached to the mounting structure according to the manufacturer's instructions and the approved plans.		
4. Roof penetrations/attachments are properly flashed.		
5. Conduit installation according to: CRC R331.3, CEC 690.4(F) and NBMC 15.06.040 Amendment to CEC Article 358.10 (The use of EMT in interior locations only).		
6. Roof access points, paths and clearances need to comply with the CFC 605.11.3.1, 605.11.3.3.3, CRC R331.4.2.1 through R331.4.2.4.		
7. Grounding/bonding of rack and modules according to the manufacturer's installation instructions that are approved and listed.		
8. PV system operating at 80 volts or greater shall be protected by a listed DC arc fault protection. (CEC 690.11).		
9. AC and DC modules, converters, combiners, inverters, disconnects, load centers and electrical service equipment are properly marked and labeled. (CEC 110.3, 690.4[D], 690.51 & 690.52).		
10. For grid-connected systems, inverter is marked "utility interactive."		
11. For ungrounded inverters, installation complies with CEC 690.35 requirements.		
12. Conductors and overcurrent devices are the type and size according to the approved plan.		
13. Inverter output circuit breaker is located at opposite end of bus from utility supply at load center and/or service panelboard (not required if the sum of the inverter and utility supply circuit breakers is less than or equal to the panelboard bus rating).		

	YES	NO
14. Modules and Racking systems are bonded and grounded in accordance with the manufacturer's installation instructions, that are listed and approved, using the supplied hardware or listed equipment specified in the instructions and identified for the environment. (CEC 690.43 & 110.3[B]).		
15. Properly sized equipment grounding conductor is routed with the circuit conductors. (CEC 690.45, 250.134[B] & 300.3[B]).		
16. Access and working space for operation and maintenance of PV equipment such as inverters, disconnecting means and panelboards (not required for PV modules) (CEC 110.26).		
17. Provide markings per plan and have 3/8-inch (9.5 mm) minimum-sized white letters on a red background. The signs are made of reflective weather resistant material.		

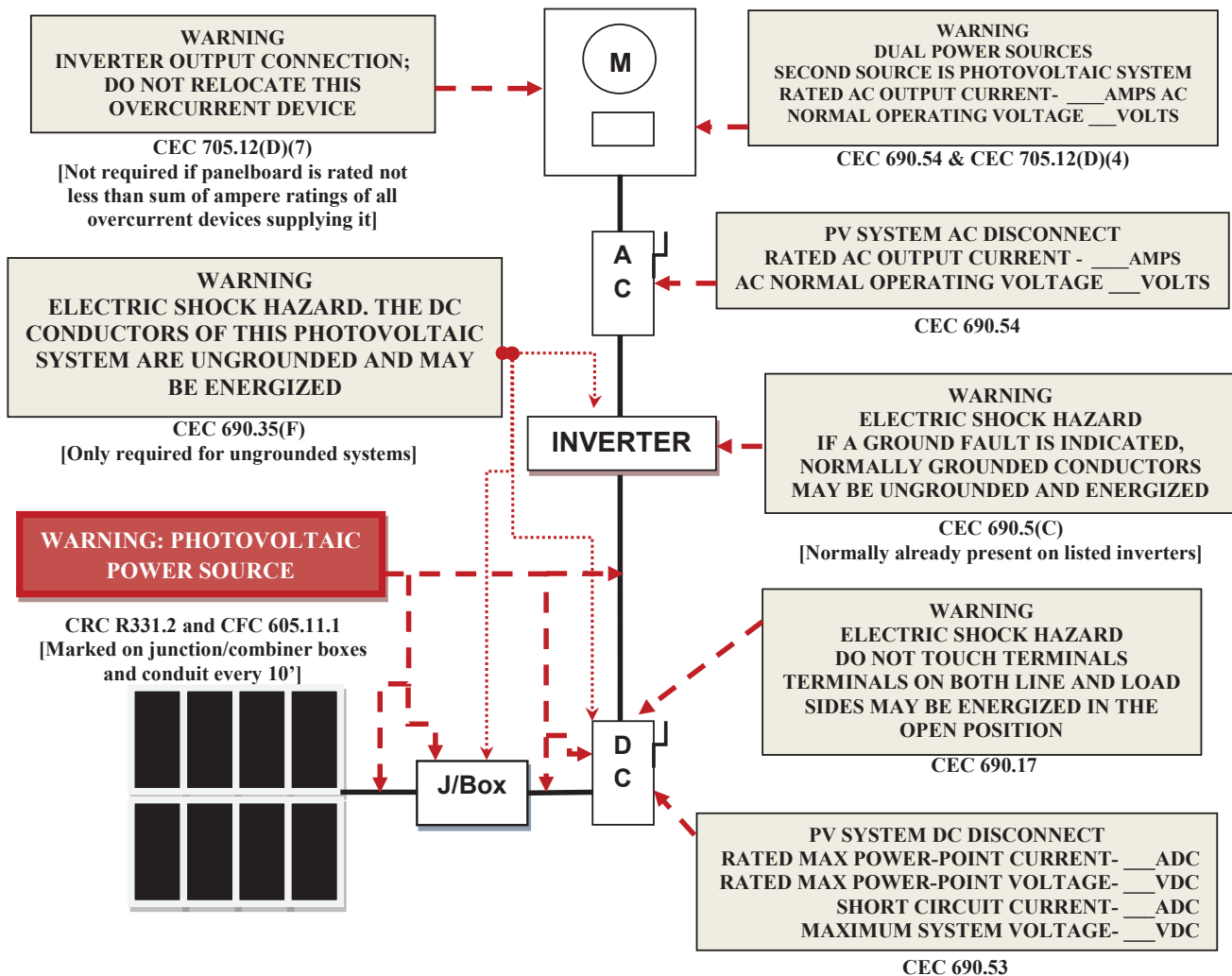
NOTES: _____

Photovoltaic Systems Checklist Approved:	
By: _____	Permit #: _____ Date: _____

Solar PV Standard Plan — Simplified Central/String Inverter Systems for One- and Two-Family Dwellings

Markings

CEC Articles 690 and 705 and CRC Section R331 require the following labels or markings be installed at these components of the photovoltaic system:



Code Abbreviations:

California Electrical Code (CEC)
California Residential Code (CRC)
California Fire Code (CFC)

Informational note: ANSI Z535.4 provides guidelines for the design of safety signs and labels for application to products. A phenolic plaque with contrasting colors between the text and background would meet the intent of the code for permanency. No type size is specified, but 20 point (3/8") should be considered the minimum.

CEC 705.12 requires a permanent plaque or directory denoting all electric power sources on or in the premises.