

Date _____ Assessor's Parcel # _____ - _____ - _____	CITY OF PLACERVILLE PERMIT APPLICATION Part 16 PV SOLAR EXPEDITED SUBMITTAL INFORMATION AND CHECKLIST	Application # _____
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This information checklist is provided to guide applicants through a streamlined permitting process for solar photovoltaic (PV) projects less than or equal to 10 KW in size and installed on an existing residential dwelling. If installing additional equipment to the site then the submittal will require a plan check review (examples: battery storage, generators, upgrade or downgrade in electrical panel, etc.) This checklist also provides information on submittal requirements for plan review, required fees, inspections and contacting the City of Placerville. Please note: This checklist has been updated to meet the new 2019 CEC.

Changes to the CEC have been noted with an asterisk *

1. Approval Requirements

I understand:

YES NO

- A construction permit is required for all solar PV installations.
- Planning review is not required on solar installation of this type and size. (Any PV solar within city designated Historical Districts, to the greatest extent possible, placement should be located to minimize it's visibility from the public way.)
- A separate Fire Department approval is not required for solar PV installation of this type and size. **For an expedited permit, the system is to be a 10 KW CEC rating or less, the array is roof-mounted on one- or two-family dwelling or a residential accessory structure, will not exceed the maximum legal building height, is utility interactive, and is without battery storage or associated wind generator.**
- If located in a Homeowner Association with CC&R's, the association governing entity has been notified of the proposed installation. The city does not enforce association rules.

Please note: If the solar system is installed on a manufactured home, a permit from the State of California Housing and Community Development HCD would be required, not the City of Placerville. Further city solar permitting processes are not required.

2. Submittal Requirements checklist

- a) Complete the construction permit application form which can be downloaded from the web site.
- b) Submit a completed Standard Electrical Plan from the California Solar Permitting Guidebook, available for review at the city, or a completed solar plan design by others.
- c) The completed and attached solar electrical plan and supporting documents includes the following information on the plans:

YES NO

- * The applicable codes (Currently 2019 California Residential Code, 2019 California Electrical Code and the 2019 California Energy Code) are specified on plans.
- * The installation of equipment and all associated wiring and interconnections shall be performed only by qualified persons. Article 690.4 CEC
- Verification the fire resistive standard for panels and modules have been tested and identified with a fire classification in accordance with UL 1703.

YES NO

- The roof fire access, pathways, ventilation requirements, and that the roof access points by a fire ladder not located over opening such as windows or doors are specified on plans. California Fire Code § 605.11
- Site diagram showing the arrangement of panels on roof, north arrow, lot configuration, roof access points and existing shading elements. (Google map or similar may be used.)
- The locations of the main service or utility disconnect(s) are shown.
- No more than four photovoltaic strings are connected to each Maximum Power Point Tracking (MPPT) input where source circuit fusing is included in the inverter.
 - 1) No more than two strings per MPPT input where source circuit fusing is not included
 - 2) Fuses (if needed) are rated to the series fuse rating of the PV module
 - 3) No more than one noninverter-integrated DC combiner is utilized per inverter
- If multiple inverters are remotely located from each other, a directory per Article 705.10 is installed.
- The PV system is interconnected to a single-phase AC service panel of nominal 120/220 Vac with a bus bar rating of 225A or less.
- The PV system is connected to the load side of the utility distribution equipment.
- * A note on plans indicating whether the system is grounded or ungrounded as permitted by article 690.35 CEC
- Total number of panels, number per string and the total number of strings and the manufacturer, make, and model are shown on plans.
- Make, model and manufacturers specifications of central inverter(s) or micro-inverters are shown. * A PV system shall be permitted to have multiple, inverters installed in or on a single building or structure.
- * **The plan includes the new requirement for Rapid Shutdown of the PV System method on the building along with the new labeling requirement. 2019 CEC article 690.12. & 690.56(C)**
- A three-line diagram of PV system from modules to the main disconnect is included with plans.
- The grounding/bonding electrode system is installed in accordance with the manufacturer's specifications and instructions and the UL listing.
- * The metallic structure of the array bonds to a separate grounding system as close as practicable to the location of the roof mounted PV arrays. (# 8 AWG minimum). CEC article 690.47(D)
- Conductor type and size, conduit type and size, and number of conductors in each section of conduit or cable are shown on plans.
- The location of wiring run(s), conduit or cable, whether inside or exterior of building, is shown.
- All equipment cut sheets including inverters, modules, AC and DC disconnects, and combiners is included with plan set.
- All required labels by the California Electrical Code Sections 690 and 705 and their locations are included in plan.
- * The plans include the dc output of dc combiners mounted on roofs of dwellings or other buildings shall have a load break disconnecting means located in the combiner or within 6 feet of the combiner. Note if the disconnecting means is to be remotely controlled but shall be manually operable locally when control power ins not available.

d) Compliance with structural requirements is demonstrated by:

YES NO

- At the applicant's cost, it has been verified through the use of standard engineering evaluation techniques that the support structure for the solar energy system is stable and adequate to transfer all wind, seismic, dead, and live loads associated with the system through to the structure's foundation.**
- Where an approved racking system is used, documentation is provided showing manufacturer of the rack system, the maximum allowable weight the system can support, the location of supports, attachment method to the roof, and product evaluation information or structural design for rack system.
- The rail spanning a maximum 4 feet between supports is shown or the engineer's review of rack system using a 20 #s/ sq. ft. snow load on roof is included.
- The roof is a single roof without a reroof overlay?**
- Type of roof covering installed is shown on plan.
- Roof pitch, type of roof framing, size of members, and spacing is shown on plan.
- A framing plan and details for any work necessary to strengthen the existing roof structure is included when needed.

e) Additional electrical system information:

YES NO

- At the applicant's cost, it has been verified using standard electrical inspection techniques that the existing electrical system including, but not limited to, the existing line, load, ground and bonding wiring as well as main panel and subpanel sizes are adequate, based on the existing electrical system's current use, to also carry all additional loads arising from the installation of the proposed new photovoltaic electrical system.**
- The existing panel board is center fed and short circuit current from all sources does not exceed ampacity of conductors' and 1/2 the buss bar rating or the panel is not center fed and conductors and circuit breakers are sized to carry at least 120% of maximum current.
- The solar disconnect in panel is located the furthest point on the buss bar from the service entrance breaker.
- *1. A ground-fault detection and interruption protection device shall be capable of detecting a ground fault in the PV array dc current carrying conductors and components, including any intentionally grounded conductors,
2. Interrupt the flow of fault current,
3. Provide an indication of the fault, and
4. Be listed for providing PV ground-fault protection.**
- * Indicate if utility-interactive inverters are mounted on roof or other exterior area that is not readily accessible. Article 690.15(A) Include:
 - 1. A dc PV disconnecting means shall be mounted within sight of or in each inverter.
 - 2. An ac disconnecting means shall be mounted within sight of or in each inverter.
 - 3. The ac output conductors from the inverter and additional ac disconnecting means for the inverter shall comply with article 690.13(A)
 - 4. A plaque shall be installed in accordance with article 705.10

3. Plan Review

I understand:

YES NO

- Permit applications can be submitted to the City of Placerville, Development Services Department, Building Division in person at 3101 Center Street, Placerville or applications are available on line at <http://www.cityofplacerville.org>
- Permit applications utilizing standards plans and this application checklist deemed complete may be approved at the counter during the AM counter hours.
- Permit applications not approved at the counter or submitted during PM office hours are reviewed within 3 business days.
- Any plan review comment(s) will be e-mailed to the applicant the same day as reviewed or a letter mailed to applicant if e-mail is not available.

4. Application and Permit Fees

I understand:

YES NO

- The fee for a standard solar permit is two hundred dollars (\$200.00) plus a \$1.00 or \$2.00 State of California Green Fee unless determined the proposed system is a non-standard installation. (Requirements for a standard PV solar installation are in Section 2)
- The non-standard fee shall not exceed five hundred dollars (\$500.00) plus fifteen dollars (\$15) per kilowatt for each kilowatt above 10kW.
- One inspection is provided with one re-inspection for any correction or deficiency. An inspection fee of ninety five dollars (\$95.00) will be required for any additional inspections.

5. Inspections

I understand:

YES NO

- The solar system cannot be energized into the electrical grid until PG&E has been notified.
- Once all permits to construct the solar installation have been issued and the system installed, it must be inspected before final approval is granted for the solar system. On-site inspections can be scheduled for the next business day by contacting the Building Division by telephone at 530-642-5240 or by using our online request form at: <https://www.cityofplacerville.org/BuildingDivision-OnlineInspectionsrequests>
- Other code requirement for installation of Smoke alarms and Carbon Monoxide alarms are required to be installed before final on projects exceeding \$1,500,000. A city certification form may be signed by the property owner prior to final inspection and available for the inspector at the time of inspection.
- Permit holders must be prepared to show conformance with all technical requirements in the field at the time of inspection. The inspector will verify that the installation is in conformance with applicable code requirements and with the approved plans at the jobsite.
- The Building Official by ordinance may require a company representative available at the site for inspection.

6. Departmental Contact Information

For additional information regarding the solar permit process, please consult our department website at <http://www.cityofplacerville.org/> or contact the Building Division at 530-642-5240 during the 8:00 to 10:00 AM counter hours or by appointment.

7. Expedited Process Acceptance.

Note

1. These criteria are intended to expedite solar permitting process.

2. If any item is checked NO, revise design to fit within Eligibility Checklist, otherwise permit application will go through the standard review process.

The applicant shall attest to all of the above requirements by checking the applicable boxes above, and by printing and signing your name below, which confirms that the requirements have been met for an expedited PV Solar permit issuance.

Print Name: _____

Signature: _____

Date: _____

Indicate: Owner builder Owner's agent Contractor

Staff verified _____